

Autoritatea Contractantă: SA "RED-Nord" Moldova, 3100, m. Bălți, str. Ștefan cel Mare, 180 „A”

Numărul procedurii de achiziție: ID 21363992 din 12 febr 2025, 31600000-2

Denumirea licitației: Achiziția Reclouzere (Aparate de protecție și teledirijare de tip Recloser-10 kV)

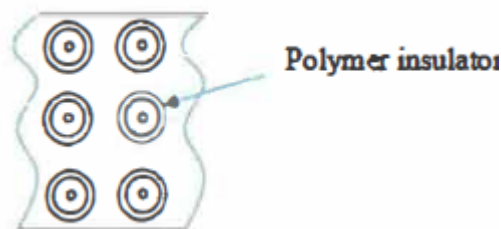
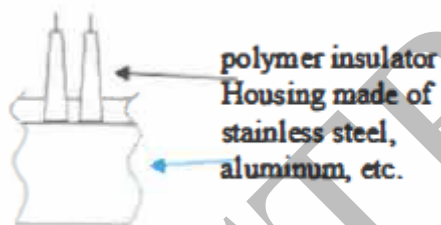
OFERTA TEHNICĂ

nr.	Denumirea	**Referința producătorului	Term. de livrare	Term. de garanție
1.	Reclouzere 10 kV	15kV 16kA 630A Solid Recloser with EVRC2A-NT-610 (with Pole and PT mounting brackets)+ Dongwoo DP-10IS Voltage Transformers + mounting brackets	140 zile	24 luni

** Producator Reclouzere 10 kV: ENTEC Electric & Electronic Co., Ltd.

Fisa tehnica Reclouzere 10 kV

<u>Reclosers must meet the following general requirements:</u>	
Not to require scheduled maintenance;	Comply
To be able to function independently of the presence of voltage on the line;	Provided
To be equipped with a switch with vacuum extinguishing chambers with a single actuation mechanism, mounted in a metal housing of stainless materials;	Provided
Silicone rubber is preferable as the material used for insulating terminals. Porcelain is not accepted.	Solid Epoxy Polymer Insulation Provided
To be designed and made in such a way as to prevent the appearance of condensation in all components;	Heater for condensation provided
Be equipped with a device for manual disconnection;	Provided
To be provided with a position indicator (connected/disconnected) visible from ground level.	Provided
To be made up only of parts made of stainless materials, which do not require any kind of painting work during the entire life of the equipment.	Provided
Equipped with the technical record of bilateral electricity with the minimum starting current from maximum 1 A.	Provided
Obligatory: the vacuum switch should be equipped in the housing according to the figures below.	



CARACTERISTICILE TEHNICE RECLOSEUR 10 KV

Technical characteristics	Values	Offered
Rated voltage of MV circuits	10 kV	15,5 kV
Rated operating voltage	~230, ~127 V	230 VAC
Rated disconnect current, kA	12,5 kA	16 kA
Electrodinamical rated s.c. current,kA	32	41,6 kA
Rated s.c. current of thermal stability, kA	12,5 kA	16 KA
Nominal short circuit duration, s	3	3
Number of O / I operations at short circuit currents	≥100	116
Number of O / I operations at rated current	≥30000	30000
Nominal work sequence	O-0,1s-CO-1s-CO	0-0.3s-CO-1s-CO-1s-CO
Nominal frequency	50 Hz	50 Hz
Rated current	630A	630A
Degree of protection	IP65	IP68
Autonomous operating time when the voltage disappears	24 hours	24hours
Operation at minimum air temperature	-35 °C	-40 °C

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Operation at maximum air temperature	+40°C	+80 °C
Contact cable, m	7 m	7 m
Voltage limiters	6 pcs	6 pcs
Voltage transformers	2 pcs	2 pcs
The battery should be produced in the same year as the recloser (high quality that would ensure a long time power supply for telemetry circuits)		Yes
Should be presented decryption of protocol register addresses (Romanian or Russian)		Yes description of commands included
The cables for connecting and powering the external machine are fully inserted (connection port to the router, etc.)		Provided
Type of protocol of data transmission IEC 104		DNP3.0, MODBUS, IEC60870-5-101, IEC60870-5-104, IEC61850
Reading the event log and changing the remote settings		Provided
Router 3G/4G must be installed in the recruiter steering module		Provided
Type of GPRS / EDGE / LTE mobile data transmission channel		GPRS, GSM, 3G, LTE modem
Mount the external antenna type KS-240		Provided
Recloser mounting set on two poles type SV-105		Bracket Provided
Operating cabinet mounting set on SV-105 pole		Bracket Provided
Metal support mounting unloaders on pole type SV-105		Provided
Instruction		Manual Provided
Cable for grounding electrical equipment		Provided
Additional accessories (bolts, nuts, washers, etc.)		Provided
The instruction to perform operative maneuvers, from the manufacturer (Romanian, Russian)		Provided

Requirements to the RPA (Relay Protection and Automation) terminal

	Relay Feature		
1	Terminal MP	Based on microprocessor relay	Provided
2	For electrical networks with neutral isolated or compensated by the compensation coil	Destination	Provided
3	Flexible	Relay type	Provided
4	Minimal 10 units	LED signaling	Provided
5	3	Current phase inputs	Provided
6	1	Homopolar current inputs	Provided
7	3	Voltage circuit inputs	Provided
8	Power supply circuits	Battery type	Provided
9	Local/ Distance	Changing the setting values	Provided
10		Damage register	Provided
11		Event log	Provided
12		Registration of oscillograms	Provided
13	USB	Connect to the computer	Provided
14		Function for measuring and transmitting analog values (current, voltage and other fault/ prevention signals, etc.)	Provided
15		Voltage circuit control function	Provided

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16		Directing the switch	Provided
17	4	Adjustment groups	Provided
18	Communication system	Accord to protocol IEC-104	Provided
Protection Functions			
	ANSI code	Description	
	46BC	Protection against conductor breakage based on reverse sequence current	Provided
	51 (1-4)	Maximum instantaneous protection (PMC) / directional or non-directional timing	Provided
	50 HS	PMC acceleration	Provided (50 IOC lockout)
	51G	Maximum directional or non- directional timed homopolar current protection for isolated and compensated neutral electrical networks	Provided
	27/59	Minimum/ maximum voltage protection	Provided
	59N	Maximum protection of timed earthing voltage (3UO)	Provided
	67N	Maximum directional homopolar current protection (measured)	Provided
The terminal must allow the protection mode to be selected (entered, deactivated, signaled)			
Automation Functions			
	21FL	Determining the place of defect	Provided
	30	Fault/ prevention signaling	Provided
	74TCS	Control of connection / disconnection circuits	Provided
	79	Fast automatic reconnection	Provided
		Logical functions for use in MR circuits	Provided
The technical documentation must contain a split algorithm, working parameters, functions working mode, technical characteristics, etc.			

!!!!!!!În atenția consumatorului final:

Componentele adiționale Recloserului ca:

1. Construcția metalică (este posibilă montarea pe pilon de tip SV 105)

2. Router

3. Antena

4. Descărcătoarele etc.

tipul se va preciza și coordona în cadrul executării contractului de achiziție a utilajului.

Vă informăm că uzina producătoare dispune de toate testele corespunzătoare articolului oferit. Din motiv că file-urile sunt de dimensiuni mari, acestea nu pot fi încărcate. La solicitare, toate testele pot fi prezentate.

1.Livrarea: SRL Electrocon va efectua livrarea în condițiile DDP Bălți. **depozit Central SA "RED-Nord"- or. Bălți, str. Ștefan cel Mare, 180 „A”**, conform INCOTERMS 2010 și a cerințelor stabilite de către Organizator. SRL Electrocon suportă toate cheltuielile și riscurile legate de aducerea marfii în acest loc, inclusiv a taxelor vamale, a altor taxe și speze oficiale care se plătesc la import, precum și a costurilor și riscurilor de îndeplinire a formalităților vamale.);

2.Descarcarea materialelor: - va fi efectuată de către SA "RED-Nord", depozit Central - **or. Bălți, str. Ștefan cel Mare, 180 „A”**;

3.Cerinte de ambalare: - materialele vor fi ambalate conform cerințelor și normelor ce asigură integritatea mărfii și transportarea în siguranță a acesteia.

4.Termenul de îndeplinire a contractului: 140 zile;

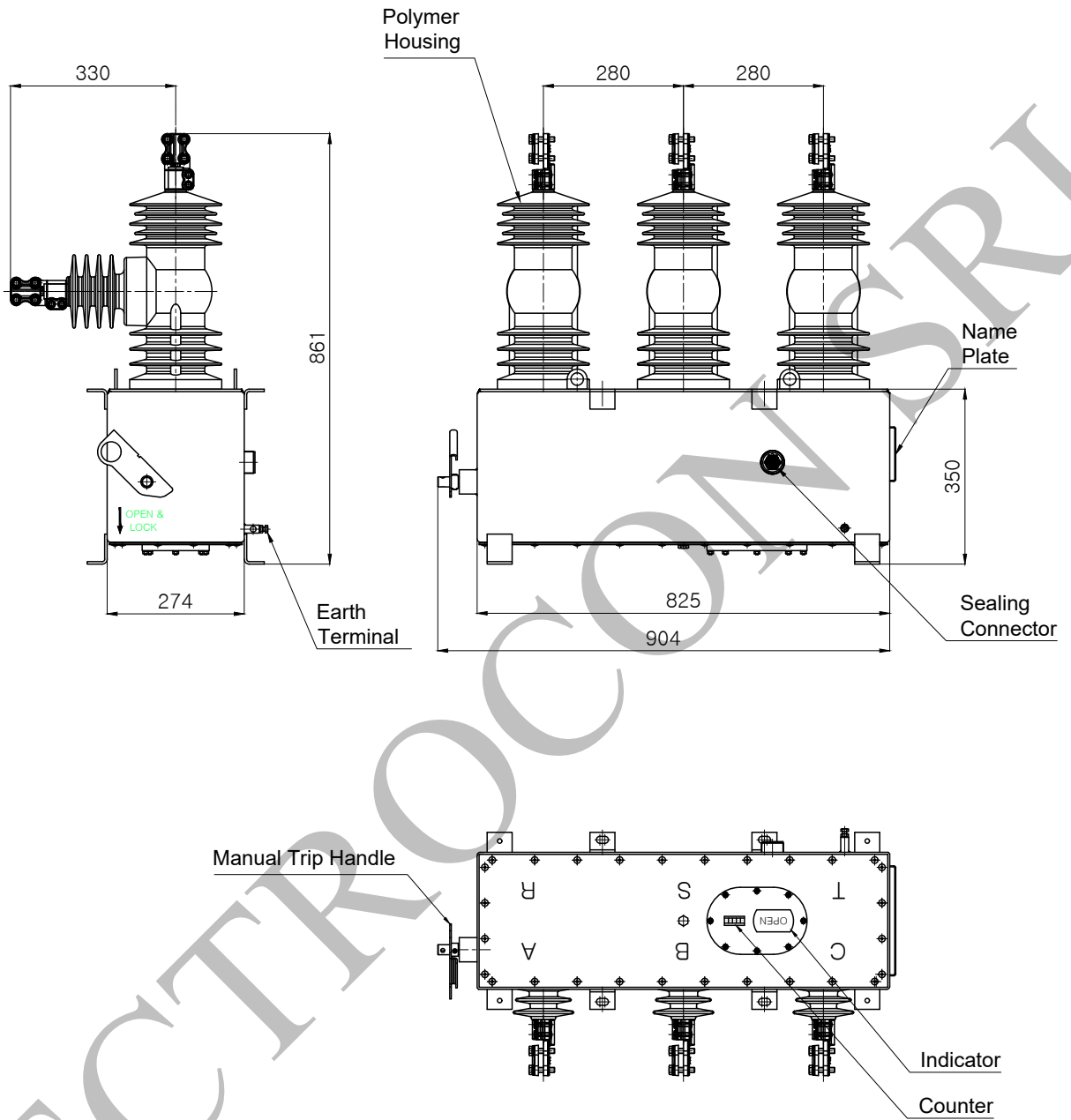
5.Eliberarea mărfii: - se va face în MDL, la cursul oficial al BNM în ziua perfectării documentelor fiscale;

6.Termenul de achitare – 30 zile din momentul primirii bunurilor.

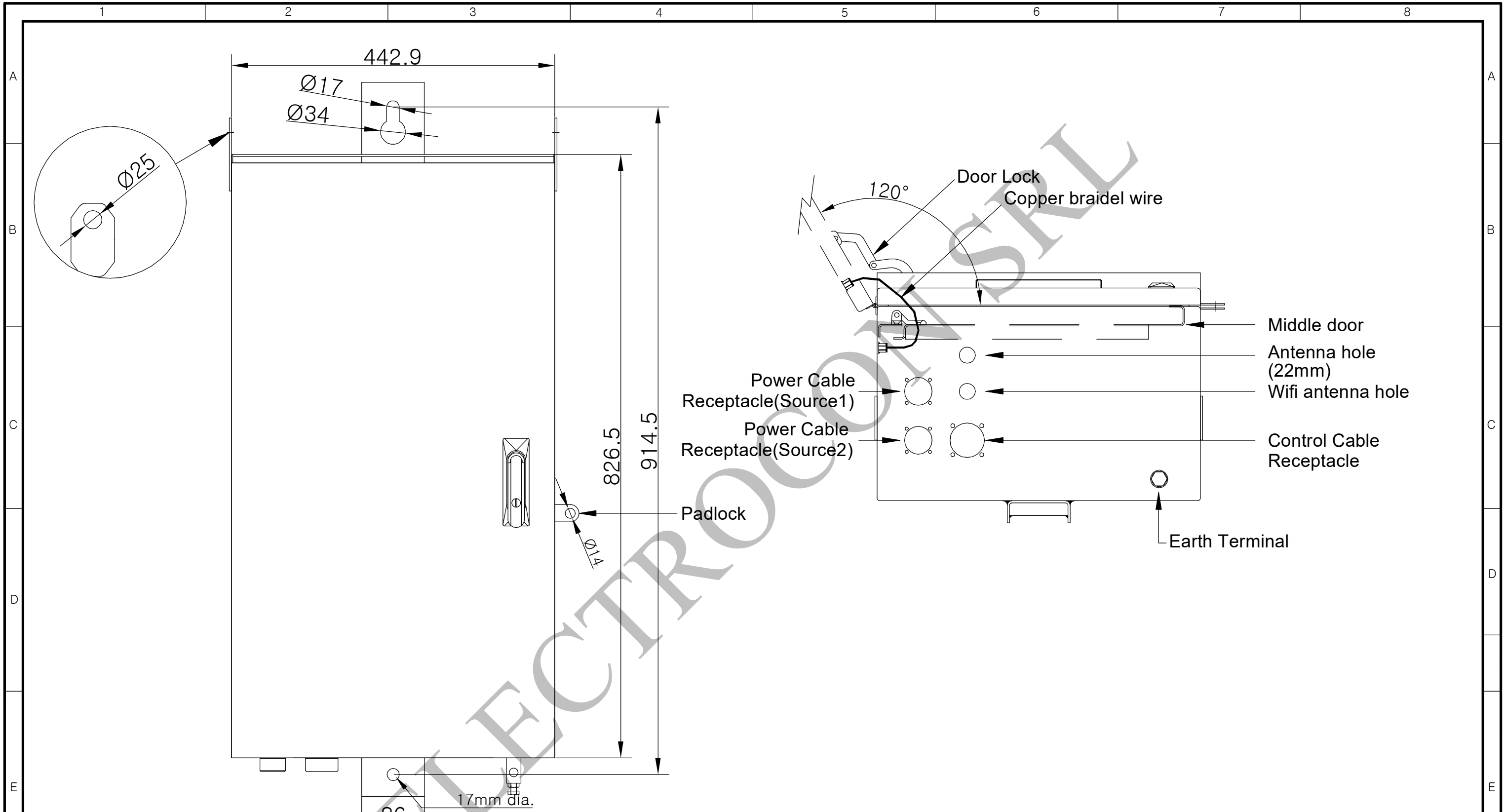
Data: 05 martie 2025

SRL „ELECTROCON”

(semnatura și ștampila)



품번 NO.	품명 DESCRIPTION	재질 MATERIAL	수량 Q'TY	규격 SPEC	도번 DWG.NO.	비고 REMARK			
제도 DRAWN	설계 DESIGNED	검도 CHECKED	승인 APPROVED	공차 TOLERANCE	작성일 DATE	척도 SCALE	15.5kV POLYMER INSULATED AUTOMATIC CIRCUIT RECLOSER		
	Shin Y.S.	Kim T.H.	Kim Y.I.	±3%	2019. 04.10	N / S	도명 TITLE	LAY OUT	
							도번 DWG.NO.	EPR1-PC201-0	개정 REV.
							관련도면 REF.NO.		0



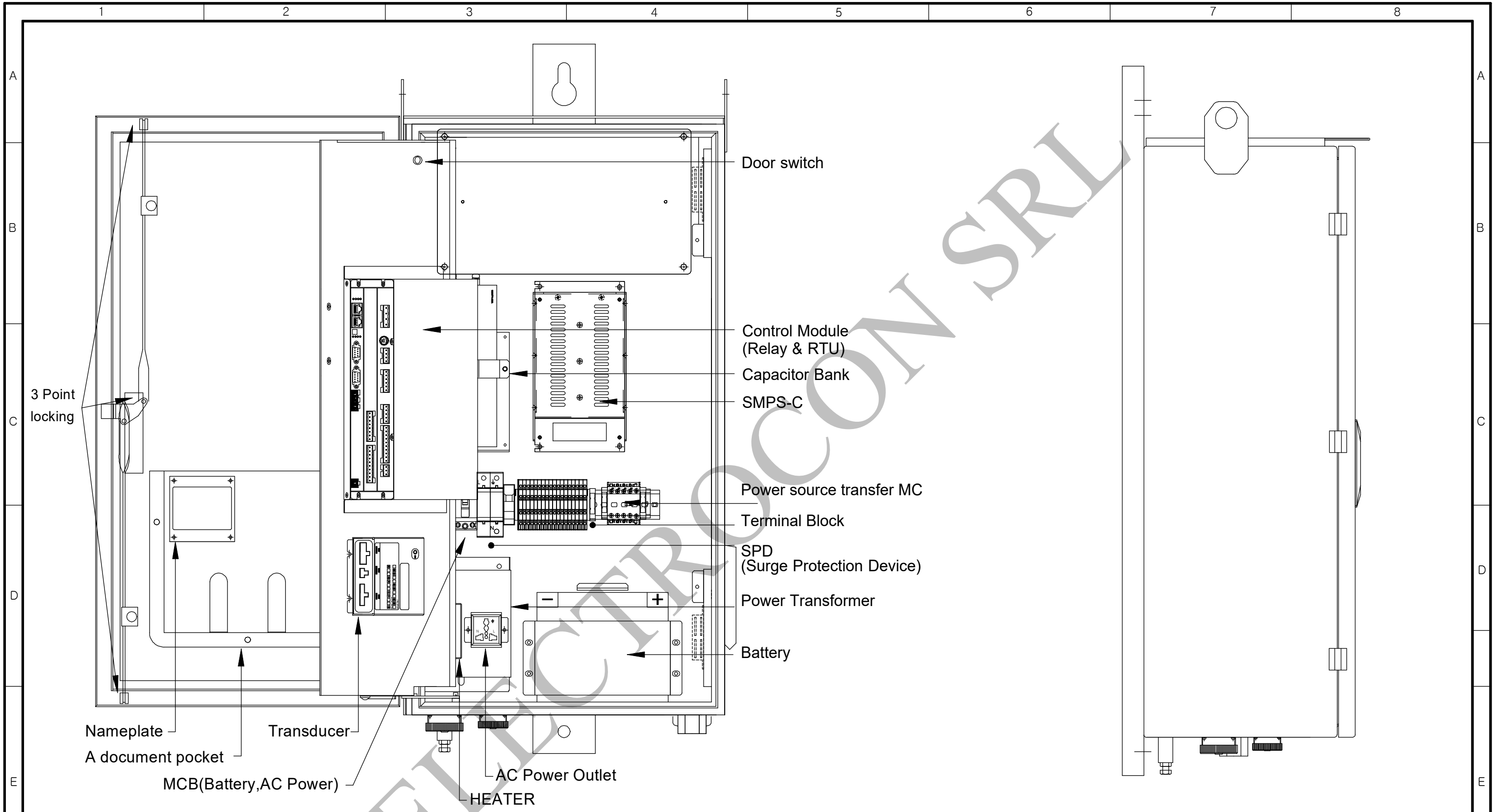
DESCRIPTION

- Control Cabinet can withstand a long term external environment and temperature changes and SUS material has been used for rust prevention. Also, the cabinet is coated with Munsell No. N5Y 7/1(gray) powder paint so that it doesn't peel off easily.
- All the metal components of the Control Cabinet are grounded. Earthing terminal is provided on the external of Control Cabinet in order to connect the grounding cable. Earthing terminal can be connected to the cable up to 113 mm² without any supplementary aid. are available for future enhancement and user's convenience.

NO	DESCRIPTION	MATERIAL	QTY	SPEC	DWG.NO.	REMARK
1						

정투상법 - 제3각법		1					
투상법		번호	위치	일자	내용		
VIEW		NO	ZONE	DATE	DESCRIPTION		
설계	검도	승인	공차	작성일	척도	Solid Insulated Automatic Recloser	SHT.NO.
DESIGNED	CHECKED	APPROVED	TOLERANCE	DATE	SCALE		
SONG	KIM	AN		2021.05.28.	N/S	도명	-
W.H	N.H	T.P				도번	개정
						Controller External structure	
						ETR-COL11-A021	1
						관련도번	
						REF.NO.	



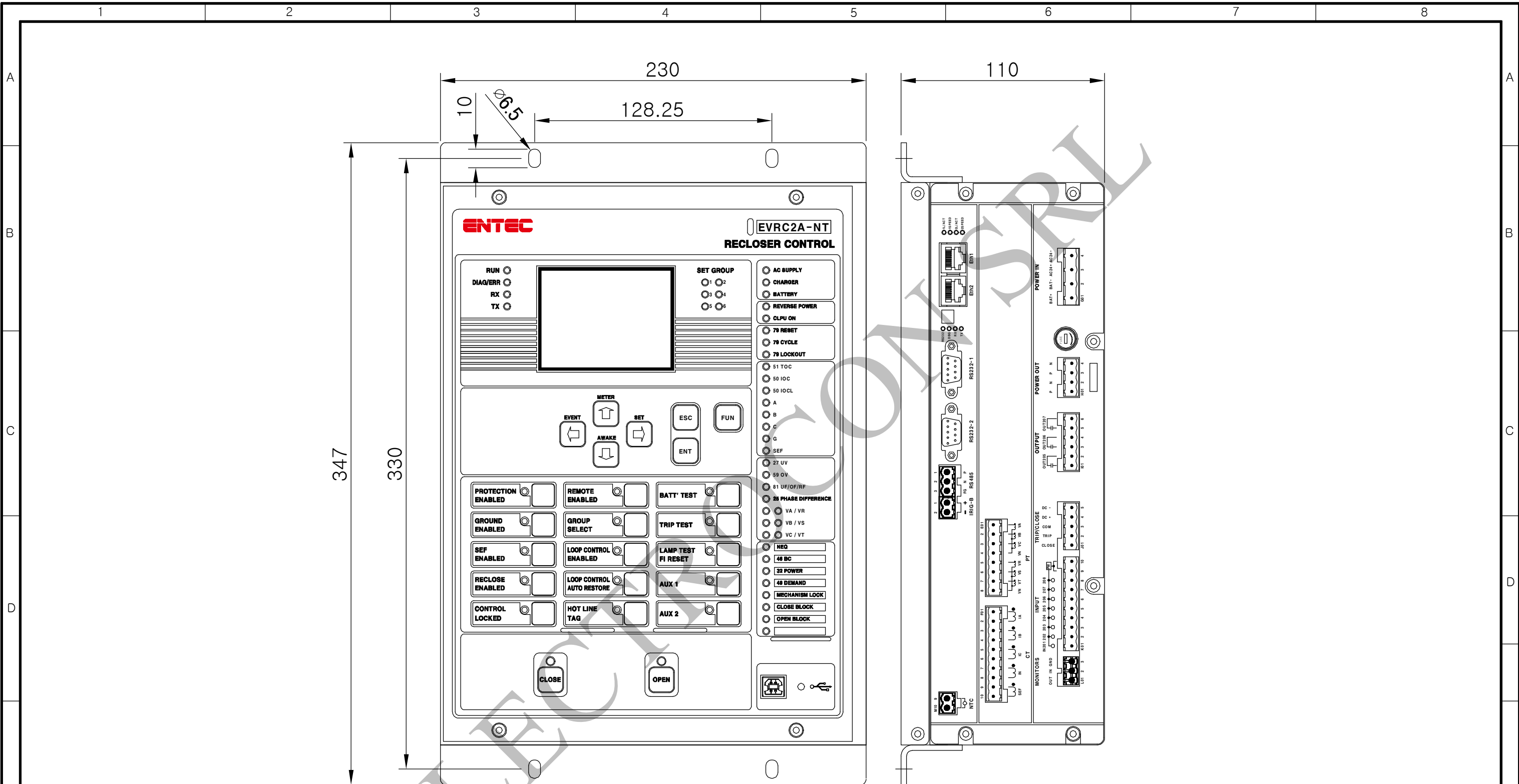


DESCRIPTION

1. Rubber packing has been used in the Cabinet door with no spacing to prevent the entry of dust and moisture from outside.
2. Control Cabinet can withstand a normal operating temperature of -40 ~ 85 °C for minimum of 16 hours. Heater and thermostat sensors are available for use in severe environmental conditions.
3. Control Cabinet has a double door structure. The middle door consists of control panel for monitoring and operation. Manual operation, while the cabinet door open, is possible for a short time regardless of any weather conditions.

NO	품명	DESCRIPTION	소재	질	수량	규격	도	번	비고
NO	DESCRIPTION	MATERIAL	QTY	SPEC	DWG.NO.	REMARK			
1									

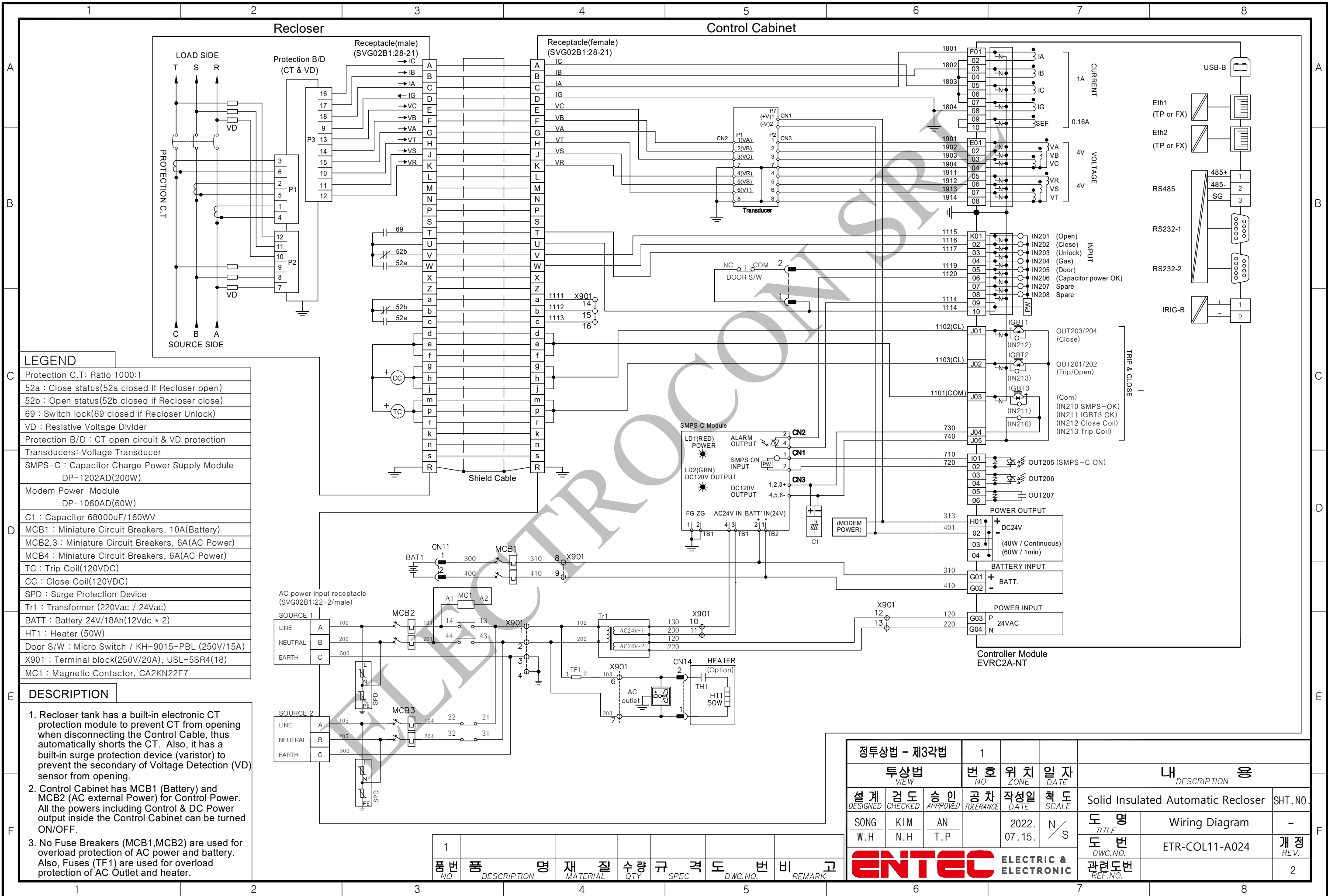
정투상법 - 제3각법			1						
투상법		번호	위치	일자	내 용				
VIEW		NO	ZONE	DATE	DESCRIPTION				
설계	검도	승인	공차	작성일	척도	Solid Insulated Automatic Recloser			SHT.NO.
DESIGNED	CHECKED	APPROVED	TOLERANCE	DATE	SCALE	Controller Inner Structure			-
SONG	KIM	AN		2022.	N/S	도 명			개 정
W.H	N.H	T.P		12.16.	/S	도 번			REV.
						ETEC		ELECTRIC & ELECTRONIC	
						관련도번			
						REF.NO.			



정투상법 - 제3각법		1				내 용	
투상법		번호	위치	일자	DESCRIPTION		
설계	검도	승인	공차	작성일	척도	Solid Insulated Automatic Recloser	
DESIGNED	CHECKED	APPROVED	TOLERANCE	DATE	SCALE	SHT.NO.	
SONG	KIM	AN		2022.	N/S	도 명	User interface panel
W.H	N.H	T.P		12.16.		도 번	ETR-JOR04-A023
						관련도번	개 정
						REF.NO.	REV.
							-

1							
품번	품명	재질	수량	규격	도번	비고	
NO	DESCRIPTION	MATERIAL	QTY	SPEC	DWG.NO.	REMARK	





LEGEND

Protection C.T: Ratio 1000:1
52a : Close status(52a closed if Recloser open)
52b : Open status(52b closed if Recloser close)
69 : Switch lock(69 closed if Recloser Unlock)
VD : Resistive Voltage Divider
Protection B/D : CT open circuit & VD protection
Transducers: Voltage Transducer
SMPS-C : Capacitor Charge Power Supply Module DP-1202AD(200W)
Modem Power Module DP-1060AD(60W)
C1 : Capacitor 68000uF/160WV
MCB1 : Miniature Circuit Breakers, 10A(Battery)
MCB2,3 : Miniature Circuit Breakers, 6A(AC Power)
MCB4 : Miniature Circuit Breakers, 6A(AC Power)
TC : Trip Coil(120VDC)
CC : Close Coil(120VDC)
SPD : Surge Protection Device
Tr1 : Transformer (220Vac / 24Vac)
BATT : Battery 24V/18Ah(12Vdc * 2)
HT1 : Heater (50W)
Door S/W : Micro Switch / KH-9015-PBL (250V/15A)
X901 : Terminal block(250V/20A), USL-5SR4(18)
MC1 : Magnetic Contactor, CA2KN22F7

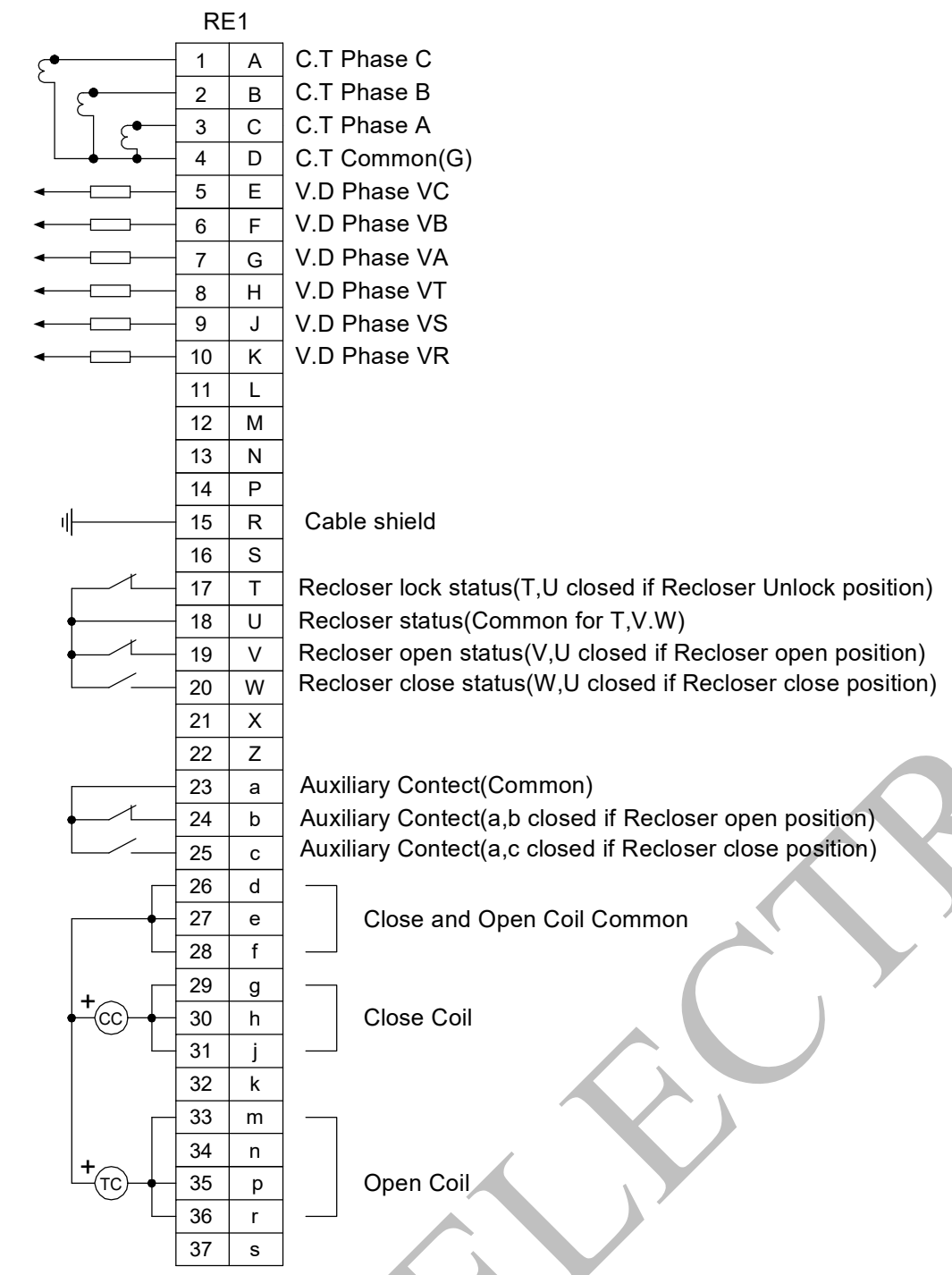
DESCRIPTION

1. Recloser tank has a built-in electronic CT protection module to prevent CT from opening when disconnecting the Control Cable, thus automatically shorts the CT. Also, it has a built-in surge protection device (varistor) to prevent the secondary of Voltage Detection (VD) sensor from opening.
2. Control Cabinet has MCB1 (Battery) and MCB2 (AC external Power) for Control Power. All the powers including Control & DC Power output inside the Control Cabinet can be turned ON/OFF.
3. No Fuse Breakers (MCB1,MCB2) are used for overload protection of AC power and battery. Also, Fuses (TF1) are used for overload protection of AC Outlet and heater.

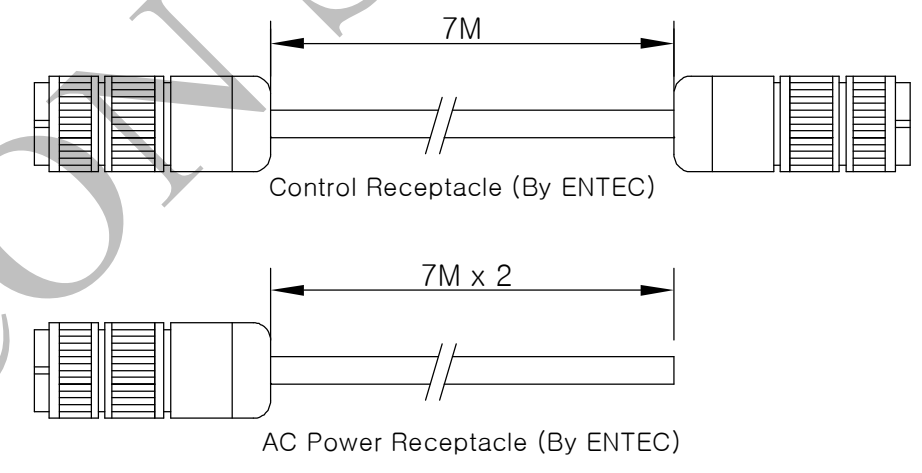
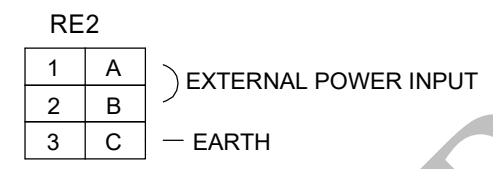
NO	DESCRIPTION	MATERIAL	QTY	SPEC	GRADE	DWG.NO.	REMARK
1							

정투상법 - 제3각법		1					
투상법	번호	위치	일자	내 용			
VIEW	NO	ZONE	DATE	DESCRIPTION			
설계	검도	승인	공차	작성일	척도	Solid Insulated Automatic Recloser	
DESIGNED	CHECKED	APPROVED	TOLERANCE	DATE	SCALE	SHT.NO.	
SONG	KIM	AN		2022.	N/S	도 명	
W.H	N.H	T.P		07.15.		도 번	
						관련도번	개 정
						REF.NO.	REV.

Control Receptacle
RECLOSER | CONTROLLER



Power Receptacle
CONTROLLER



LEGEND
 RE1: Receptacle / SVG02B1:28-21(Female/Male)/37pin
 RE2: Receptacle / SVG02B1:22-2(Female/Male)/3pin
 Cable length : Control(7M), AC Power(7M)
 Cable : Shield Cable

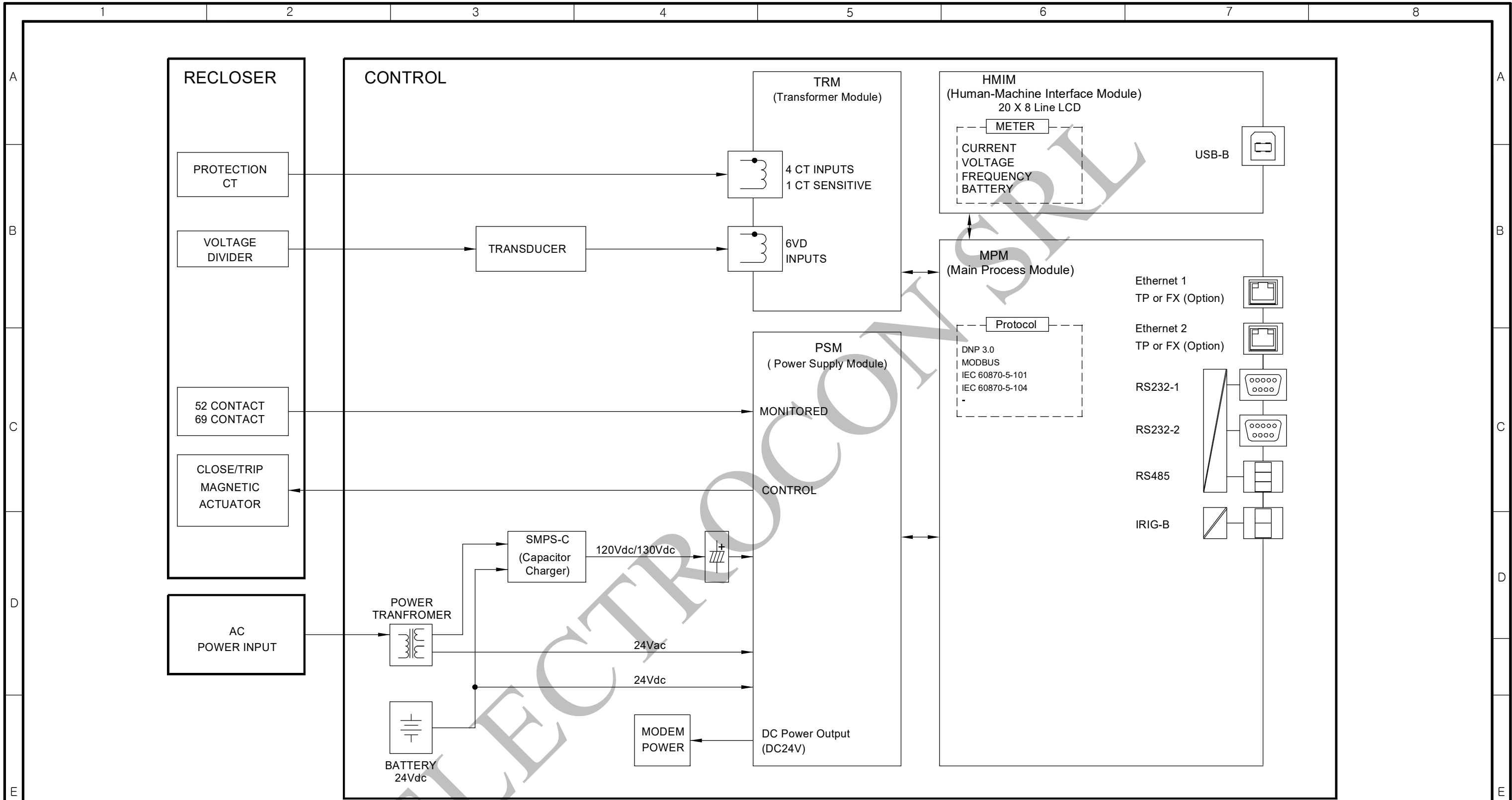
DESCRIPTION
 1. Cable has waterproof connector of MIL-C-5015 standard, and cable connection portions are waterproofed with silicon.
 2. Cable possesses an easy rotation technique (90° only) for fast and easy fitting with bayonet coupling mechanism.
 3. Control Cable has been shielded with Aluminum tape to shield EMC & EMI. Also, PVC material has been used to make it ultraviolet stabilized.

ELECTROCON SRL

정투상법 - 제3각법			1					
투상법			번호	위치	일자	내 용		
VIEW			NO	ZONE	DATE	DESCRIPTION		
설계	검도	승인	공차	작성일	척도	Solid Insulated Automatic Recloser		SHT.NO.
DESIGNED	CHECKED	APPROVED	TOLERANCE	DATE	SCALE	Control and Power Receptacle		-
SONG	KIM	AN		2022.	N/S	도 명	ETR-JOR04-A025	개 정
W.H	N.H	T.P		12.16.	/S	도 번		REV.
						관련도번		-
						REF.NO.		

1								
NO	품 명	재 질	수 량	규 격	도 번	비 고		
	DESCRIPTION	MATERIAL	QTY	SPEC	DWG.NO.	REMARK		

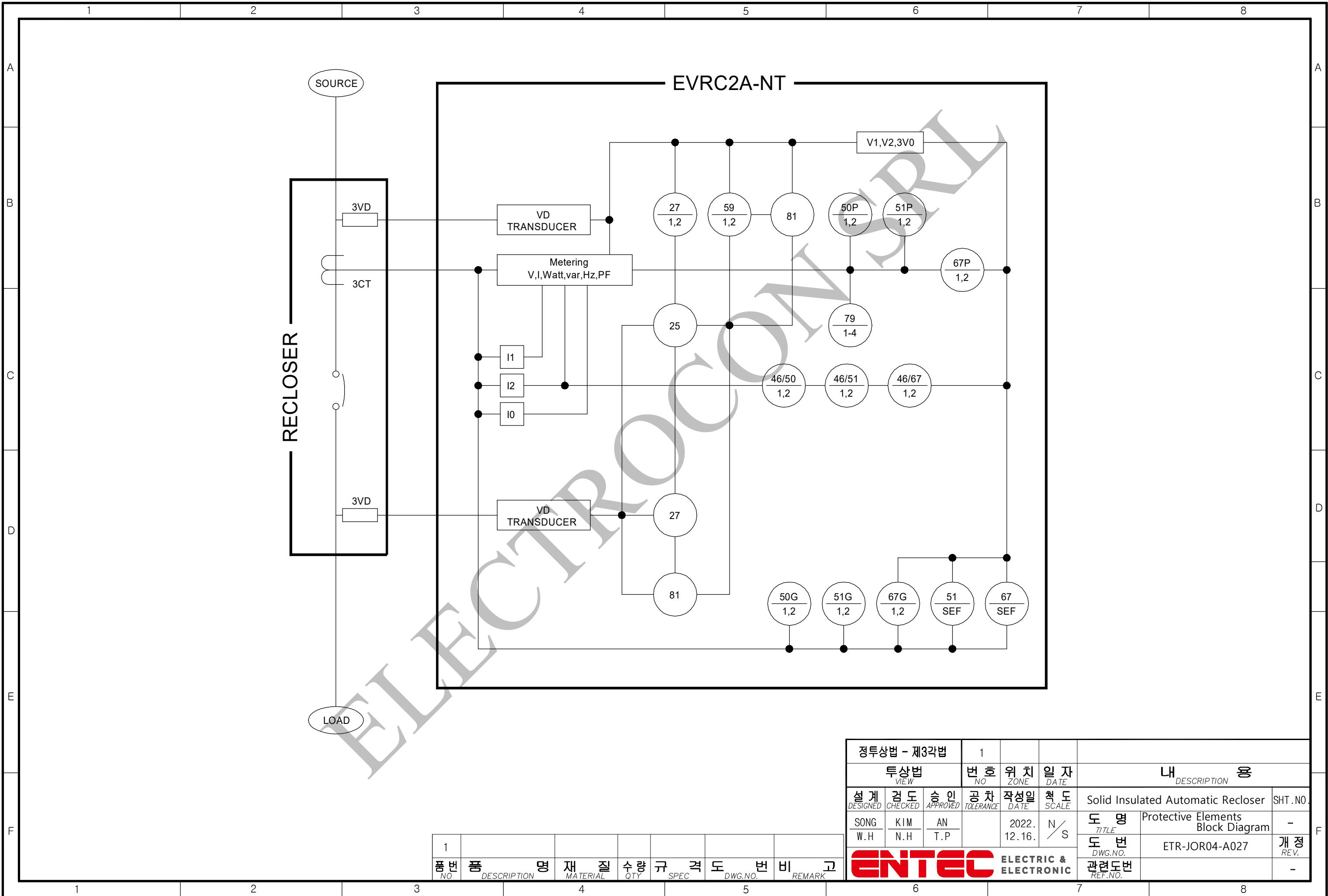




정투상법 - 제3각법			1				
투상법		번호	위치	일자	내 용		
VIEW		NO	ZONE	DATE	DESCRIPTION		
설 계	검 도	승 인	공 차	작성일	척 도	Solid Insulated Automatic Recloser	
DESIGNED	CHECKED	APPROVED	TOLERANCE	DATE	SCALE	SHT .NO.	
SONG	KIM	AN		2022.	N / S	도 명	Hardware Block Diagram
W.H	N.H	T.P		12.16.		도 번	ETR-JOR04-A026
						DWG.NO.	개 정
						관련도번	-
						REF.NO.	-

1							
품번	품명	재료	수량	규격	도번	비고	
NO	DESCRIPTION	MATERIAL	QTY	SPEC	DWG.NO.	REMARK	





1	2	3	4	5	6	7	8
품번 NO	품명 DESCRIPTION	재질 MATERIAL	수량 QTY	규격 SPEC	도번 DWG.NO.	비고 REMARK	

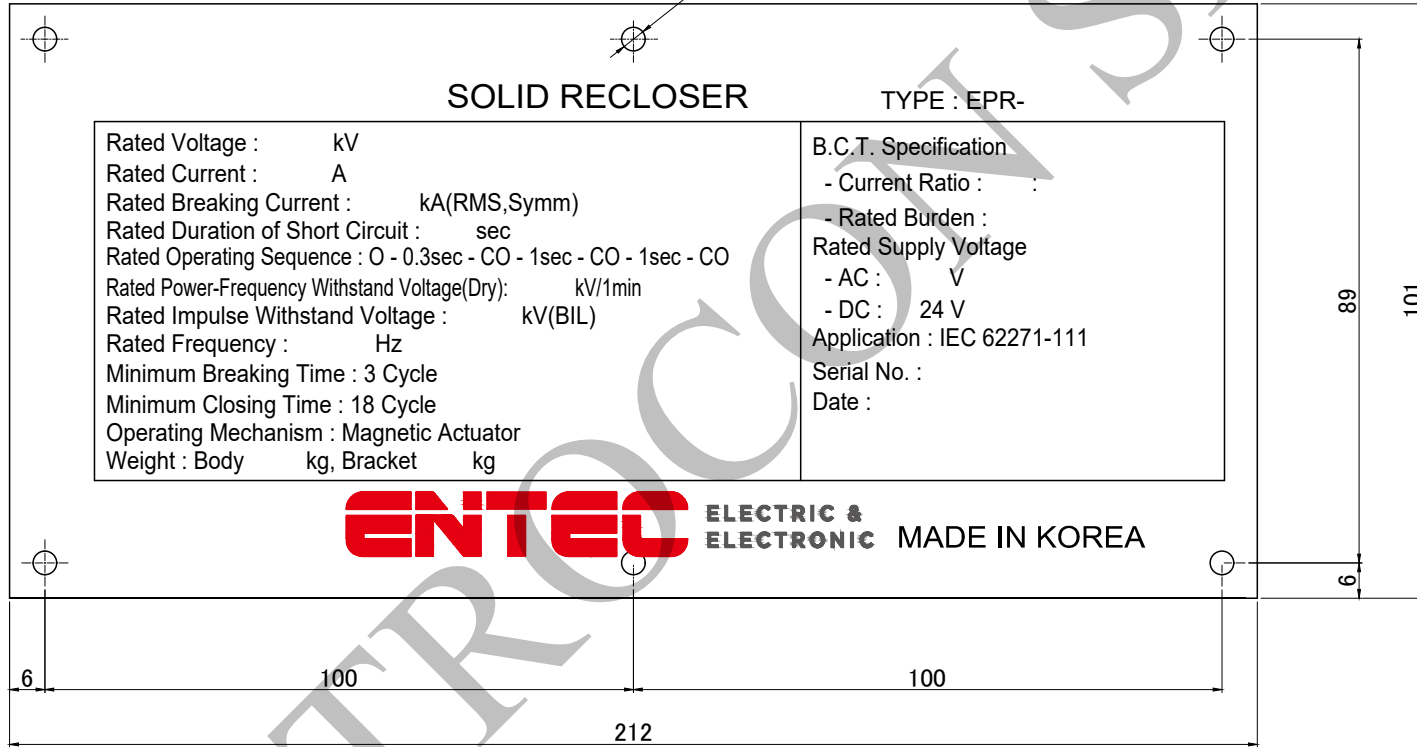
정투상법 - 제3각법			1				
투상법 VIEW			번호 NO	위치 ZONE	일자 DATE	내용 DESCRIPTION	
설계 DESIGNED	검도 CHECKED	승인 APPROVED	공차 TOLERANCE	작성일 DATE	척도 SCALE	Solid Insulated Automatic Recloser	SHT.NO.
SONG W.H	KIM N.H	AN T.P		2022. 12.16.	N/S	도명 TITLE Protective Elements Block Diagram	-
ENTEC ELECTRIC & ELECTRONIC						도번 DWG.NO. ETR-JOR04-A027	개정 REV. -
						관련도번 REF.NO.	-

SOLID RECLOSER

TYPE : EPR-

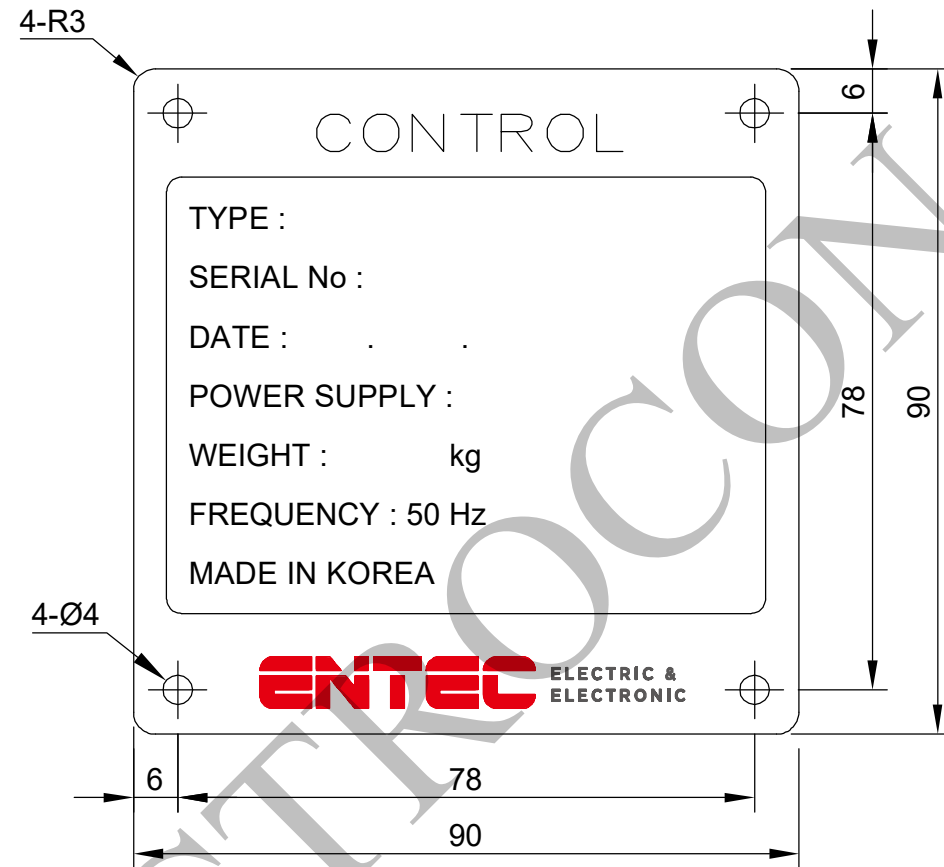
Rated Voltage : kV	B.C.T. Specification
Rated Current : A	- Current Ratio : :
Rated Breaking Current : kA(RMS,Symm)	- Rated Burden :
Rated Duration of Short Circuit : sec	Rated Supply Voltage
Rated Operating Sequence : O - 0.3sec - CO - 1sec - CO - 1sec - CO	- AC : V
Rated Power-Frequency Withstand Voltage(Dry): kV/1min	- DC : 24 V
Rated Impulse Withstand Voltage : kV(BIL)	Application : IEC 62271-111
Rated Frequency : Hz	Serial No. :
Minimum Breaking Time : 3 Cycle	Date :
Minimum Closing Time : 18 Cycle	
Operating Mechanism : Magnetic Actuator	
Weight : Body kg, Bracket kg	

ENTEC ELECTRIC & ELECTRONIC MADE IN KOREA



Orthographic projection-third angle						1			
VIEW		NO	ZONE	DATE	DESCRIPTION				
DESIGNED	CHECKED	APPROVED	TOLERANCE	DATE	SCALE	Solid Recloser			
(Shin Y.S.)	(Kim T.H.)	(Kim Y.I.)		2020.03.19	N/S	Name Plate(En)_added_C.N.			
ENTEC ELECTRIC & ELECTRONIC CO., LTD.						DWG. NO.	PIR-10003E-13	REV.	0
						REF. NO.			

1		STS304	1	t=0.5		
NO	DESCRIPTION	MATERIAL	QTY	SPEC	DWG. NO.	REMARK



NOTE.
1. STS304, 0.5t

품번 NO	품명 DESCRIPTION	재질 MATERIAL	수량 QTY	규격 SPEC	도번 DWG.NO.	비고 REMARK
1	-	STS304	1	0.5t	-	-

정투상법 - 제3각법		1			내 용		
투상법 VIEW		번호 NO	위치 ZONE	일자 DATE	Automatic Recloser		
설계 DESIGNED	검도 CHECKED	승인 APPROVED	공차 TOLERANCE	작성일 DATE	척도 SCALE	SHT.NO.	
SONG W.H	KIM N.H	AN T.P		2021. 11.09.	N/S	도명 TITLE	Control name plate
						도번 DWG.NO.	RE A-TF1-018
						관련도번 REF.NO.	개정 REV.
							1

ENTEC ELECTRIC & ELECTRONIC

CERTIFICATE OF ACCREDITATION

Korea Electrotechnology Research Institute

Accreditation No. : KT008

Corporation Registration No. : 194222-0000073

Address of Laboratory : (Branch site)12, Jeongiui-gil, Seongsan-gu, Changwon-si,
Gyeongsangnam-do, Republic of Korea
(Branch site-1)111, Hanggaul-ro, Sangnok-gu, Ansan-si, Gyeonggi-do,
Republic of Korea
(Satellite facilities-1)138, Naesonsunhwan-ro, Uiwang-si, Gyeonggi-do,
Republic of Korea
(Satellite facilities-2)27, Dosicheomdansaneop-ro, Nam-gu, Gwangju,
Republic of Korea

Date of Initial Accreditation : October 18, 1994

Validity of Accreditation : January 21, 2024 ~ January 20, 2028

Scope of Accreditation : Attached Annex

Date of issue : January 18, 2024

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

Korea Laboratory Accreditation Scheme

CERTIFICATE OF REGISTRATION

QUALITY MANAGEMENT SYSTEM

ENTEC ELECTRIC & ELECTRONIC CO., LTD.

Head Office & Factory: 225-28, 225-38, Choerubaek-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-do, Korea

Naju Factory: 90, Hyeoksinsandan 7-gil, Wanggok-myeon, Naju-si, Jeollanam-do, Korea

Korea System Certification hereby certifies that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard below.

Certificate Number: KSQEA-22210

Standard

KS Q ISO 9001:2015 / ISO 9001:2015

Scope of Certification

Design & Development, Production and Other Services of Gas or Solid Insulated Load Break Switch and Automatic Circuit Recloser, Gas or Solid Insulated Load Break Switch with Current Limiting Fuse, Gas or Solid Insulated Circuit Breaker, Gas Insulated Automatic Sectionalizer, Epoxy Insulated Fault Interrupter, Submersible Type of Polymer Insulated Load Break Switches for Underground Line, Environment-friendly Gas or Solid Insulated Switchgear, Gas Insulated Switchgear, Automatic Load Transfer Switches (ALTS), Medium Voltage Panel, Cubicle Type Medium Voltage Panel, Low Voltage Panel, Traction Rectifier, DC Power Distribution Panel and DC Switchgear, DC Circuit Breaker, DC Disconnecter, DC Load Break Switch, Protective Relay, Supervisory Control System & Data Acquisition System (SCADA), Remote Terminal Unit (Multi-Function Remote Terminal Unit, Digital Remote Terminal Unit, Feeder Remote Terminal Unit), Digital Integrated Protection and Monitoring Equipment, Automatic Control System, Building Automation Control System, Watt-Hour Meters, Wireless Current Meters, Polymer Line-Post Type Insulators, Modules and Controllers

Certification Date: January 22, 2023

Valid Until: January 21, 2026

Issue Date: December 26, 2022

Initial Certification Date: January 02, 2017



KAB-QC-55

**KSC_QB* has been accredited by as a Quality Management System Certification Body. (KAB-QC-55)

* KSC is accredited by Member (KAB) of the IAF Multilateral Recognition Arrangement for Quality Management System

Authorized By :

A handwritten signature in black ink, appearing to read 'Seyoel Lee'.

President
Seyoel Lee

KOREA SYSTEM CERTIFICATION

RM 1803, 220, Yeongsin-ro, Yeongdeungpo-gu, Seoul, Korea
Phone: +82 2 2039 7272/Fax: +82 2 2039 7279/www.kscqa.com
Initial Certification Date (Previous CB): 1997.02.01



CERTIFICATE OF REGISTRATION

ENVIRONMENTAL MANAGEMENT SYSTEM

ENTEC ELECTRIC & ELECTRONIC CO., LTD.

Head Office & Factory: 225-28, 225-38, Choerubaek-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-do, Korea

Naju Factory: 90, Hyeoksinsandan 7-gil, Wanggok-myeon, Naju-si, Jeollanam-do, Korea

Korea System Certification hereby certifies that the Environmental Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard below.

Certificate Number: KSQEA-22210

Standard

KS / ISO 14001:2015 / ISO 14001:2015

Scope of Certification

Design & Development, Production and Other Services of Gas or Solid Insulated Load Break Switch and Automatic Circuit Recloser, Gas or Solid Insulated Load Break Switch with Current Limiting Fuse, Gas or Solid Insulated Circuit Breaker, Gas Insulated Automatic Sectionalizer, Epoxy Insulated Fault Interrupter, Submersible Type of Polymer Insulated Load Break Switches for Underground Line, Environment-friendly Gas or Solid Insulated Switchgear, Gas Insulated Switchgear, Automatic Load Transfer Switches (ALTS), Medium Voltage Panel, Cubicle Type Medium Voltage Panel, Low Voltage Panel, Traction Rectifier, DC Power Distribution Panel and DC Switchgear, DC Circuit Breaker, DC Disconnecter, DC Load Break Switch, Protective Relay, Supervisory Control System & Data Acquisition System (SCADA), Remote Terminal Unit (Multi-Function Remote Terminal Unit, Digital Remote Terminal Unit, Feeder Remote Terminal Unit), Digital Integrated Protection and Monitoring Equipment, Automatic Control System, Building Automation Control System, Watt-Hour Meters, Wireless Current Meters, Polymer Line-Post Type Insulators, Modules and Controllers

Certification Date: March 23, 2023

Valid Until: March 22, 2026

Issue Date: December 26, 2022

Initial Certification Date: March 23, 2017



KAB-EC-48

**KSC_C01 has been accredited by as a Environmental Management System Certification Body. (KAB-EC-48)

* KSC is accredited by Member (KAB) of the IAF Multilateral Recognition Arrangement for Environmental Management System

Authorized By :

A handwritten signature in black ink.

President
Seyoel Lee

KOREA SYSTEM CERTIFICATION

RM 1803, 220, Yeongsin-ro, Yeongdeungpo-gu, Seoul, Korea

Phone: +82 2 2039 7272/Fax: +82 2 2039 7279/www.ksqa.com





Certificate of Registration

This is to certify that :

ENTEC ELECTRIC & ELECTRONIC CO., LTD

225-38, Choerubaek-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-Do, KOREA
225-28, Choerubaek-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-Do, KOREA
90, Hyeoksinsandan 7-gil, Wanggok-myeon, Naju-si, Jeollanam-Do, KOREA

Has been assessed by International Certification Registrar Ltd., in respect of their Occupational Health and Safety Management Systems and found to comply with

KS Q ISO 45001:2018 / ISO 45001:2018

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

Design & development, production, installation and after services of Gas or Solid Insulated Load Break Switch and Automatic Circuit Recloser, Gas or Solid Insulated Load Break Switch with Current Limiting Fuse, Gas or Solid Insulated Circuit Breaker, Gas Insulated Automatic Sectionalizer, Epoxy Insulated Fault Interrupter, Submersible type of Polymer Insulated Load Break Switches for Underground Line, Environment-friendly Gas or Solid Insulated Switchgear, Gas Insulated Switchgear, Automatic Load Transfer Switches(ALTS), Medium Voltage Panel, Cubicle Type Medium Voltage Panel, Low Voltage Panel, Rectifier, DC Control Panel and DC Switchgear, DC Disconnecter, DC Load Break Switch, Protective Relay, Supervisory Control system & Data Acquisition system(SCADA), Remote Terminal Unit(Multi-function Remote Terminal Unit, Digital Remote Terminal Unit, Feeder Remote Terminal Unit), Digital Integrated Protection And Monitoring Equipment, Automatic control system, Building Automation control system, Watt-hour Meters, Wireless Current Meters, Polymer line-post type insulators, Modules and Controllers

Certification Date : 07th February 2023

Initial Issued Date : 07th February 2023

Certificate Issue Date : 07th February 2023

Expiration Date : 06th February 2026

Certificate No. : OHK011623

※ This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.

※ Refer to appendix for detailed activities and location of each sites.

The Seal of ICR Limited was here to affixed
in the presence of :

President



KAB-OC-25

ICR is accredited by Korea Accreditation Board
as an Occupational Health & Safety Management System certification body
(Accreditation Number KAB-OC-25).

- This certificate is intellectual property of ICR.
- This certificate is only valid by completion of surveillance audit which is conducted at least once a year.
- You can verify the authenticity of this certificate on "Certification Confirm" at www.icrqa.com
- If you can not maintain the certification, this certificate shall be returned to ICR.





Appendix to Certificate

This appendix represents the addresses and activities of following multi-sites below.

ENTEC ELECTRIC & ELECTRONIC CO., LTD

Certificate No : OHK011623

Head office : 225-38, Choerubaek-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-Do, KOREA

1. Performing the role of the central function
2. Performing of design, development, production, inspection, installation and after services work
3. ISO 45001 management system operation data collection analysis and management
4. Instruct each business site to apply the established management system operation and changed guidelines

Registered Date : 12th January 2023

225-28, Choerubaek-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-Do, KOREA

1. Performing of design, development work

Registered Date : 12th January 2023

90, Hyeoksinsandan 7-gil, Wanggok-myeon, Naju-si, Jeollanam-Do, KOREA

1. Performing of Production, inspection work
2. Naju Factor's safety and health work

Registered Date : 12th January 2023

CERTIFICATE OF ACCREDITATION

CTK Co., Ltd.

Accreditation No. : KT119

Corporation Registration No. : 134511-0029478

Address of Laboratory : (Branch site)(Ho-Dong) 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Branch site-1)(Unhak-Dong) 142, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Branch site-2)(Unhak-Dong) 5, 221beon-gil, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-1)(Ho-Dong) 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-2)(Unhak-Dong) 142, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-3)(Unhak-Dong) 5, 221beon-gil, Dongbu-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea

Date of Initial Accreditation : November 18, 2020

Validity of Accreditation : March 26, 2022 ~ March 25, 2026

Scope of Accreditation : Attached Annex

Date of issue : April 28, 2023

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

Korea Laboratory Accreditation Scheme

Korea Laboratory Accreditation Scheme

No. KT119

03. Electrical Testing

03.004 Electrical materials and components

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS 3112:2017+Amd1 :2021	Electrical materials and components	Approval and test specification - Plugs and socket-outlets	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
BS 1363-1:2016+A1:2018	Electrical materials and components	13 A plugs, socket-outlets, adaptors and connection units Part 1. Specification for rewirable and non-rewirable 13A fused plugs	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
BS 1363-2:2016+A1:2018	Electrical materials and components	13 A plugs, socket-outlets, adaptors and connection units Part 2. Specification for 13 A switched and unswitched socket outlets	AC voltage: 250 V or less AC current: 13 A or less	SF-3	N
EN 50075:2002	Electrical materials and components	Flat non-rewirable two-pole plugs, 2,5 A, 250 V, with cord, for the connection of class II-equipment for household and similar purposes [Exception] 12 Flexible cords and their connection	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
EN 62133:2013	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.2.2 Vibration test 7.3.4 Mechanical shock(crash hazard) 8.3.9 Design evaluation - Forced internal short circuit(cells)	DC voltage: 1 000 V or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62133:2013	Electrical materials and components	Secondary cells and batteries containing alkaline or other non- acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.3.6 Crushing of cells 8.3.5 Crush 8.3.9 Design evaluation - Forced internal short circuit (cells)	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) Kn	BS	N
IEC 60112:2020	Electrical materials and components	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	DC: 600 V or less	BS	N
IEC 60695-10- 2:2014	Electrical materials and components	Fire hazard testing-Part 10-2:Abnormal heat- Ball pressure test method	Temperature : 300 °C or less Pressure : 20N or less	BS	N
IEC 60695-11-5 ed1.0 2016	Electrical materials and components	Fire hazard testing-Part 11-5 : Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Temperature: 1 200 °C or less	BS	N
IEC 60695-2- 10:2013	Electrical materials and components	Fire hazard testing-Part 2-10 : Glowing/hot-wire based test methods.- Glow-wire apparatus and common test procedure	Temperature: 960 °C or less	BS	N
IEC 60884-1 ed3.2:2013	Electrical materials and components	Plugs and socket-outlets for household and similar purposes - Part 1: General requirements [Exception] 10 Protection against electric shock 22 Force necessary to withdraw the plug 23 Flexible cables and their connection 24 Mechanical strength	AC voltage: 600 V or less AC current: 30 A or less	SF-3	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60884-2-5:2017	Electrical materials and components	Plugs and socket-outlets for household and similar purposes - Part 2: Particular requirements for adaptors	AC voltage: 600 V or less AC current: 30 A or less	SF-3	N
IEC 61960:2011	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications	DC voltage: 1 000 V or less	BS-1	N
IEC 61960:2011	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C ESD : 8 Kv or less	BS	N
IEC 62133-2:2017	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems [Exception] 7.3.5 Crush(cells) 7.3.9 Design evaluation - Forced internal short-circuit(cells)	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) kN	BS	N
IEC 62133:2012	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.2.2 Vibration test 7.3.4 Mechanical shock (crash hazard)	DC voltage :1 000 V or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62133:2012	Electrical materials and components	Secondary cells and batteries containing alkaline or other non- acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications [Exception] 7.3.4 Mechanical shock (crash hazard) 7.3.6 Crushing of cells 8.3.5 Crush	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) kN	BS	N
IRAM 2063:2009	Electrical materials and components	Ungrounded bipolar plugs for household and similar uses, 10 A, 250 V alternating current	DC voltage: 250 V DC current: 10A	SF-3	N
IS 1293:2019	Electrical materials and components	Plugs and socket-outlets of rated voltage up to and including 250 volts and rated current up to and including 16 amperes-specification	AC voltage: 440 V or less AC current: 32 A or less	SF-3	N
KC 60112:2015	Electrical materials and components	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	Temperature: 600 V or less	BS	N
KC 60695-2- 2:2015	Electrical materials and components	Fire hazard testing. Test methods. Glowing/hot- wire based test methods. Glow-wire flammability test method for end- products	Temperature: 1 200 °C or less length of Flame: 13 mm or less	BS	N
KC 62133-2:2020	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C Pressure : (0 ~ 30) kN	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60112:2009	Electrical materials and components	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	Temperature: 600 V or less	BS	N
KS C IEC 60695- 10-2:2014	Electrical materials and components	Fire hazard testing — Part 10-2: Abnormal heat — Ball pressure test method	Temperature : 300 °C or less Pressure : 20N or less	BS	N
KS C IEC 60695-2- 10:2013	Electrical materials and components	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	Temperature: 960 °C or less	BS	N
KS C IEC 61960:2008	Electrical materials and components	Portable lithium secondary battery	DC voltage : (0 ~ 100) V DC current: (0 ~ 50) A Temperature : (-40 ~ 150) °C ESD : 8 Kv or less	BS	N
KS C IEC 61960:2008	Electrical materials and components	Portable lithium secondary battery	1 000 V or less	BS-1	N
NM 60884-1:2009	Electrical materials and components	Chips and outlets for domestic uses and Similar - Part 1 - General Requirements (IEC 60884-1: 2006 MOD), Plug and socket for domestic and analog use Part 1 - Gerais requirements (IEC 60884-1: 2006 MOD)	AC voltage: 440 V or less AC current:: 32 A or less	SF-3	N
SASO 2203:2018	Electrical materials and components	PLUGS AND SOCKET- OUTLETS FOR HOUSEHOLD AND SIMILAR PURPOSES- SAFETY REQUIREMENTS AND TEST METHODS 250 V/13 A	AC voltage: 250 V or less AC current: 13 A or less	SF-3	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ST/SG/AC.10/11/R ev.7/:2019	Electrical materials and components	Recommendations on the TRANSPORT OF DANGEROUS GOODS - Manual of Tests and Criteria (38.3 Lithium metal and lithium ion batteries) [제외항목] 38.3.4.2 Thermal test 38.3.4.3 Vibration test 38.3.4.4 Shock test	DC voltage : (0 ~ 100) V DC current : (0 ~ 100) A Pressure : (0 ~ 20) kPa Temperature : (-40 ~ 150) °C Frequency : (0 ~ 20) Hz Acceleration : (0.98 ~ 1 470) m/s ²	BS-1	N
ST/SG/AC.10/11/R ev.7/:2019	Electrical materials and components	Recommendations on the TRANSPORT OF DANGEROUS GOODS - Manual of Tests and Criteria (38.3 Lithium metal and lithium ion batteries)	DC voltage : (0 ~ 100) V DC current: (0 ~ 100) A Pressure : (0 ~ 20) kPa Temperature : (-40 ~ 150) °C Frequency : (0 ~ 20) Hz Acceleration : (0.98 ~ 1470) m/s ² Impact height : (0.1 ~ 1.5) m	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

03. Electrical Testing

03.007 Electrical machinery for households

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS 62368.1:2018	Electrical machinery for households	Audio/video, information and communication technology equipment- Part 1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS-1	N
AS/NZS 62368.1:2018	Electrical machinery for households	Audio/video, information and communication technology equipment- Part 1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1 Ionizing radiation 6.2 Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18 Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS-1	N
EN 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60335-1:2012+AMD:2017+AMD2:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus 30.2 Parts of non-metallic shall be resistant to ignition and spread of fire - Glow wire test Annex N Proof tracking test Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
EN 60335-1:2012+AMD:2017+AMD2:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60950-1:2006 +A11:2009+A1:20 10+A12:2011+A2: 2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex A Tests for resistance to heat and fire Annex B B.4 Running overload test B.6 Running overload test for d.c. motors in secondary circuit Annex T (information) Guidance on protection against ingress of water	AC 500 V, 30 A or less	BS-1	N
EN 60950-1:2006 +A11:2009+A1:20 10+A12:2011+A2: 2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex B B.4. Running overload test B.6 Running overload test for d.c. motors in secondary circuit	AC 500 V, 30 A or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60950-22:2017	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS-1	N
EN 60950-22:2017	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS	N
EN 60950-23:2006	Electrical machinery for households	Information technology equipment - Safety - Part 23: Large data storage equipment	Frequency range: 100 Hz ~ 20 kHz Output voltage: 20 mV ~ 200 mV Signal: < 100 dB	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62368-1:2014+A11:2017	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62368-1:2014+A11:2017	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS-1	N
EN 62684:2010	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones <Exception> 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS-1	N
EN 62684:2010	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones [Exception] 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 62368-1:2020 +A11:2020	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water-saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 62368-1:2020 +A11:2020	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1: Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water-saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1 Ionizing radiation 6.2 Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18 Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS-1	N
IEC 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60335-1:2010 +AMD:2013+AM D2:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus 30.2 Parts of non-metallic material shall be resistant to ignition and spread of fire - Glow wire test Annex N Proof tracking test Annex E Needle flame test Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-1:2010+AMD:2013+AMD2:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60335-2-24:2010 +A1:2012+A2:2017	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
IEC 60335-2-24:2010 +A1:2012+A2:2017	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-2-29:2016 +A1:2019	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
IEC 60335-2-29:2016 +A1:2019	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60335-2-2:2009 +A1:2012+A2:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
IEC 60335-2-2:2009 +A1:2012+A2:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-2-84:2002 +A1:2008+A2:2013	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
IEC 60335-2-84:2002 +A1:2008+A2:2013	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60950-1:2005 (Second Edition) +Am1:2009+Am2: 2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex A Tests for resistance to heat and fire Annex B B.4 Running overload test B.6 Running overload test for d.c. motors in secondary circuit Annex T (information) Guidance on protection against ingress of water	AC 500 V, 30 A or less	BS-1	N
IEC 60950-1:2005 (Second Edition) +Am1:2009+Am2: 2013	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex B B.4. Running overload test B.6 Running overload test for d.c. motors in secondary circuit	AC 500 V, 30 A or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60950-22:2016	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS-1	N
IEC 60950-22:2016	Electrical machinery for households	Information technology equipment - Safety - Part 22: Equipment to be installed outdoors [Exception] 8.2 Resistance to ultra-violet radiation 8.5.2 Oil resistance Annex A Water - saturated sulphur dioxide atmosphere	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS	N
IEC 60950-23:2005	Electrical machinery for households	Information technology equipment - Safety - Part 23: Large data storage equipment	Input Voltage: AC 600 V or less Input Current: 20 A or less Leakage Current: 10 mA or less Temperature: 200 or less Earth Continuity: AC 12 V, 60 A or less Electric strength : AC/DC 10 kV, 100 mA or less Insulation Resistance: 2 GΩ or more Humidity: 93 % R.H. or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2014	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1:Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2014	Electrical machinery for households	Audio/video, information and communication technology equipment- Part 1: Safety requirements 5 [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion	AC/DC 600 V or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2018	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: General requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water- saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62368-1:2018	Electrical machinery for households	Audio/video, information and communication technology equipment- Part1:Safety requirements [Exception] 5.4.1.11 Thermoplastic parts on which conductive metallic parts are directly mounted- Vicat test B of ISO 306 10 Radiation Annex G.7 Main supply cords Annex G.9 Integrated circuit (IC) current limiters Annex G.15.3 Hygrostatic pressure Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8 Protection against internal ignition from external spark source of batteries with aqueous electrolyte Annex S Tests for resistance to heat and fire Annex U Mechanical strength of CRTs and protection against the effects of implosion Annex Y.3 Resistance to corrosion Annex Y.3.3 Water- saturated Sulphur dioxide atmosphere Annex Y.4.3 Tensile strength and elongation tests Annex Y.4.4 Compression tests Annex Y.4.5 Oil resistance	AC/DC 600 V or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62684 edition 1.0:2011	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones <Exception> 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS-1	N
IEC 62684 edition 1.0:2011	Electrical machinery for households	Interoperability specifications of common external power supply(EPS) for use with data-enabled mobile telephones [Exception] 6.2 D) Common-mode noise probe	Input voltage: DC 20 V or less	BS	N
K 60950-1:2011	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex A Tests for resistance to heat and fire Annex B B.4 Running overload test B.6 Running overload test for d.c. motors in secondary circuit Annex T (information) Guidance on protection against ingress of water	AC 500 V, 30 A or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
K 60950-1:2011	Electrical machinery for households	Information technology equipment - Safety - Part 1: General requirements [Exception] 3.2.5.1 AC power supply cords 3.2.8 Cord guards 4.2.8 Cathode ray tubes 4.2.9 High pressure lamps 4.3.12 Flammable liquids 4.3.13 Radiation Annex B B.4. Running overload test B.6 Running overload test for d.c. motors in secondary circuit	AC 500 V, 30 A or less	BS	N
KC 60065:2015	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements [Exception] 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex A. Additional requirements for apparatus with protection against splashing water Annex G Flammability test methods Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60065:2015	Electrical machinery for households	Audio, video and similar electronic apparatus safety requirements <Exception> 6.1. Ionizing radiation 6.2. Laser radiation 7.2 Heating resistance of insulating material 12.3 Remote control devices held in hand 16.1 Flexible cord test 18. Mechanical strength of picture tubes and protection against the effects of implosion. Annex H. Insulated winding wires for use without interleaved insulation.	AC 500 V, 30 A or less	BS	N
KC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances- Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex E Needle Flame test Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances- Safety-Part 1:General requirements [Exception] 22 Construction - Oxygen bomb Methylated sprits and Pressure apparatus Annex F Capacitors Annex G Safety isolating transformers Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60335-2-24:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
KC 60335-2-24:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers [Exception] 21. Mechanical strength - Vibration 22. Construction - Test for Flammable refrigerants	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-2-29:2020	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-2-29:2020	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60335-2-2:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
KC 60335-2-2:2015	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21 Mechanical strength	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 60335-2-84:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS	N
KC 60335-2-84:2016	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	Input: AC/DC (3 ~ 450) V, 50 A Temperature: 200 °C or less Humidity: 95 % R.H. or less Electric strength : AC/DC 5 000 V or less Leakage current: 50 mA or less	BS-1	N
KC 62368-1:2021	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: General requirements	AC/DC 600 V or less	BS	N
KC 62368-1:2021	Electrical machinery for households	Audio/video, Information and communication technology equipment - Part 1: General requirements	AC/DC 600 V or less	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

03. Electrical Testing

03.008 Wired/wireless communication devices

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
3GPP TS 25.104 V15.4.0	wireless communication devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Base Station (BS) radio transmission and reception(FDD)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
3GPP TS 25.141 V15.3.0	wireless communication devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Base Station (BS) conformance testing (FDD)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
3GPP TS 36.104 V15.4.0	wireless communication devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
3GPP TS 36.141 V15.4.0	wireless communication devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
3GPP TS 37.104 V15.4.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) radio transmission and reception [Exception] New Radio (NR) Requirements(Clauses 6.3.6, 6.5.1.6, 6.5.2.6, 6.5.3.5, 6.6.4.6, 7.2.6, 7.3.6, 7.8.2, 8.5)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
3GPP TS 37.141 V15.4.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) conformance testing	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
3GPP TS 51.021 V15.1.0	wireless communicatio n devices	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Base Station System (BSS) equipment specification; Radio aspects	Frequency Range: 100 kHz ~ 12.75 GHz	BS	N
AS/NZS 4268:2017	wireless communicatio n devices	Radio equipment and systems - Short range devices - Limits and methods of measurement	Frequency Range: 30 MHz ~ 26 GHz	BS	N
EN 300 220-1 V3.1.1	wireless communicatio n devices	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	Frequency Range: 9 kHz ~ 6 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 300 220-2 V3.2.1	wireless communicatio n devices	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment	Frequency Range: 9 kHz ~ 6 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 300 328 V2.1.1	wireless communicatio n devices	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 30 MHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 300 328 V2.2.2	wireless communicatio n devices	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	Frequency Range: 30 MHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 300 330 V2.1.1	wireless communicatio n devices	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 9 kHz ~ 1 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 300 440 V2.2.1	wireless communicatio n devices	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 9 kHz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 301 357 V2.1.1	wireless communicatio n devices	Cordless audio devices in the range 25 MHz to 2 000 MHz; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 301 502 V12.5.2	wireless communicatio n devices	Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 100 kHz ~ 12.75 GHz	BS	N
EN 301 511 V9.0.2	wireless communicatio n devices	Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC)	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 301 893 V1.8.1	wireless communicatio n devices	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive	Frequency Range: 30 MHz ~ 26 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 301 893 V2.1.1	wireless communicatio n devices	5 GHz RLAN; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 30 MHz ~ 26 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 301 908-1 V13.1.1	wireless communication devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements [Exception] User Equipment(Clauses 4.2.2, 4.2.4, 5.3.1, 5.3.3)	Frequency Range: 30 MHz ~ 12.75 GHz	BS	N
EN 301 908-14 V13.0.1	wireless communication devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
EN 301 908-14 V13.1.1	wireless communication devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
EN 301 908-15 V11.1.2	wireless communication devices	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	Frequency Range: 9 kHz ~ 12.75 GHz	BS	N
EN 301 908-15 V15.1.1	wireless communication devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
EN 301 908-18 V13.0.1	wireless communication devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 18: E- UTRA, UTRA and GSM/EDGE Multi- Standard Radio (MSR) Base Station (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 301 908-18 V13.1.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 18: E- UTRA, UTRA and GSM/EDGE Multi- Standard Radio (MSR) Base Station (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
EN 301 908-3 V13.0.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
EN 301 908-3 V13.1.1	wireless communicatio n devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
EN 302 065-1 V2.1.1	wireless communicatio n devices	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Requirements for Generic UWB applications	Frequency Range: 30 MHz ~ 40 GHz	BS	N
EN 302 208 V3.1.1	wireless communicatio n devices	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W Operation band: 865 MHz ~ 868 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 302 208 V3.3.1	wireless communication devices	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard for access to radio spectrum	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W Operation band: 865 MHz ~ 868 MHz	BS	N
EN 303 417 V1.1.1	wireless communication devices	Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Frequency Range: 100 kHz ~ 1 GHz	BS	N
EN 303 883 V1.1.1	wireless communication devices	Short Range Devices (SRD) using Ultra Wide Band (UWB); Measurement Techniques	Frequency Range: 30 MHz ~ 40 GHz	BS	N
EN 50364:2010	wireless communication devices	Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications	Frequency Range: 20 Hz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 50371:2002	wireless communication devices	Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) - General public	Frequency Range: 10 MHz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 50385:2017	wireless communication devices	Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when placed on the market	Frequency Range: 110 MHz ~ 40 GHz	BS	N
EN 62311:2008	wireless communication devices	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	Frequency Range: 20 Hz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
EN 62479:2010	wireless communication devices	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	Frequency Range: 10 MHz ~ 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
FCC Part 15	wireless communication devices	Radio frequency devices	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
FCC Part 2	wireless communication devices	Frequency allocations and radio treaty matters; general rules and regulations	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
FCC Part 22	wireless communication devices	Public mobile services	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
FCC Part 24	wireless communication devices	Personal communications services	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
FCC Part 27	wireless communication devices	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
FCC Part 90	wireless communication devices	PRIVATE LAND MOBILE RADIO SERVICES	Frequency Range: 9 kHz ~ 26.5 GHz	BS	N
FCC Part 96	wireless communication devices	CITIZENS BROADBAND RADIO SERVICE	Frequency Range: 9 kHz ~ 40 GHz	BS	N
RSS-102 Issue 5	wireless communication devices	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
RSS-210 Issue 10	wireless communication devices	Licence-exempt Radio Apparatus: Category I Equipment	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
RSS-247 Issue 2	wireless communication devices	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	Frequency Range: 9 kHz ~ 40 GHz	BS	N
RSS-Gen Issue 5	wireless communication devices	General Requirements and Information for the Certification of Radio Apparatus	Frequency Range: 9 kHz - 40 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N
TS 151 010-1 V13.4.0	wireless communication devices	Digital cellular telecommunications system (Phase 2+)(GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 13.4.0 Release 13)	Frequency Range: 9 kHz ~ 12.75 GHz Frequency Resolution: 0.01 Hz Maximum Input Level: 1 W	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

03. Electrical Testing

03.009 Lighting devices

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60598-1:2015/A1:2018	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24/Annex P Protective measures against UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-1:1989	Lighting devices	Luminaires - Part 2-1: Particular requirements. Section One: Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-2:2012	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60598-2-3:2003+A1:2011	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-4:2018	Lighting devices	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-5:2015	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 60598-2-7:1989+A2:1996+A13:1997	Lighting devices	Luminaires - Part 2-7: Particular requirements - Portable luminaires for garden use	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60598-2-8:2013	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 61347-1:2015	Lighting devices	Lamp controlgear - Part 1: General and safety requirements [Exception] 13. Thermal endurance test for windings of ballasts Annex B. Particular requirements for thermally protected lamp controlgear Annex H Tests Annex I Additional requirements for built-in magnetic ballasts with double or reinforced insulation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 61347-2-13:2014	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62031:2008 +A1:2013+A2:2015	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 62493:2010	Lighting devices	Assessment of lighting equipment related to human exposure to electromagnetic fields	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
EN 62560:2012/A1:2015/A11:2019	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications [Exception] 5.2 c) Eye protection	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598- 1:2014/AMD1:2017	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24/Annex P Protective measures against UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60598-1:2020	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24.1 UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2- 1:2020	Lighting devices	Luminaires - Part 2-1: Particular requirements. Section One: Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2- 2:2011	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2- 3:2002+A1:2011	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60598-2-4:2017	Lighting devices	Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2-5:2015	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2-7:1982+A1:1987+A2:1994	Lighting devices	Luminaires - Part 2-7: Particular requirements - Portable luminaires for garden use	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 60598-2-8:2013	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61347-1:2015/AMD1:2017	Lighting devices	Lamp controlgear - Part 1: General and safety requirements [Exception] 13. Thermal endurance test for windings of ballasts Annex B. Particular requirements for thermally protected lamp controlgear Annex H Tests Annex I Additional requirements for built-in magnetic ballasts with double or reinforced insulation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 61347-2-13:2014+A1:2016	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 62031:2018	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 62471:2006	Lighting devices	Photobiological safety of lamps and lamp systems	Irradiance : (250 ~ 2500) nm Radiance : (300 ~ 1400) nm	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62493:2015	Lighting devices	Assessment of lighting equipment related to human exposure to electromagnetic fields	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC 62560:2011+A1:2 015	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications [Exception] 5.2 c) Eye protection	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
IEC TR 62778:2014	Lighting devices	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires	Irradiance : (250 ~ 2 500) nm Radiance : (300 ~ 1 400) nm	BS	N
K 10005:2011	Lighting devices	Safety requirements for electrodeless fluorescent lamps	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
K 10006:2006	Lighting devices	PLS type electrodeless lamp safety requirements [except] 6.2 Power Density of Leakage Propagation 6.3 Radiation resistance, toxicity	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
K 62471-1:2009	Lighting devices	Photobiological safety of lamps and lamp systems	Irradiance : (250 ~ 2 500) nm Radiance : (300 ~ 1 400) nm	BS	N
KC 10023:2020	Lighting devices	Self - ballasted LED lamps for general lighting services	220 V, 60 Hz, 150 W or less, operation Temp: 10-30 °C Wiaght: 1 kg or less, Torque driver: 3 Nm or less, insulation resistance: More than 4 MΩ Cap temperature: 120 °C or less, Moment: More than 3 Nm	BS	N
KC 20001:2015	Lighting devices	Straight LED lamp- converter external	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60598-1:2015	Lighting devices	Luminaires - Part 1: General requirements and tests [Exception] 4.4.4 Lampholder (7006-47C for G5 lampholders, (7006-60C for G13, G13 lampholders) 4.24 Annex P Protective measures against UV radiation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-1:2021	Lighting devices	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-2:2021	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-3:2021	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 60598-2-4:2021	Lighting devices	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-5:2021	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 60598-2-8:2021	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KC 61347-1:2015	Lighting devices	Lamp controlgear - Part 1: General and safety requirements [Exception] 13. Thermal endurance test for windings of ballasts Annex B. Particular requirements for thermally protected lamp controlgear Annex H Tests Annex I Additional requirements for built-in magnetic ballasts with double or reinforced insulation	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 61347-2- 13:2015	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KC 62031:2015	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/Products	Standard designation	Test range	Site	Field testing
KS C 7528:2020	Lighting devices	LED traffic signals [except] 9.17 Accelerated Weathering Test 9.21 Relative Luminous Transmittance Test	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7612:1987	Lighting devices	Illuminance measurements for lighting installations	100,000 lx	BS	N
KS C 7613:1999	Lighting devices	Methods of luminance measurements in lighting fields	1,000,000 cd/m ²	BS	N
KS C 7620:2003	Lighting devices	Railway car luminaries for fluorescent lamps [except] 7.13 Noise strength test 7.11 Luminous Ratio Test	Input voltage: DC. 220 V operation Temp. : 200 °C or less, Leakage current: Max. 10 mA Temperature: Max. 200 °C Electric strength: 5 kV, 100 mA Insulation resistance: More than 4 MΩ Earth continuity: Max 12 V, 40 A illuminance : Max 100,000 lx	BS	N
KS C 7651:2021	Lighting devices	Self-ballasted LED lamps	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7652:2021	Lighting devices	Non-ballasted LED lamps	Input Voltage: Max 50 V insulation resistance: More than 4 MΩ Cap temperature: More than 120 °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 7653:2021	Lighting devices	Recessed LED luminaires and Fixed LED luminaires	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7655:2021	Lighting devices	Electronic control gear for LED modules	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7656:2021	Lighting devices	Portable LED/OLED luminaires	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7658:2021	Lighting devices	LED luminaires for road, street and area lighting	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7659:2018	Lighting devices	LED module for Channel Letter Signs- Safety and Performance Requirements	IP68 min temp: (-30 ± 2) °C max temp: (70 ± 2) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 7711:2021	Lighting devices	LED ground recessed luminaires	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7712:2021	Lighting devices	LED flood-lighting luminaire	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7713:2021	Lighting devices	LED landscape lighting	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 7716:2021	Lighting devices	LED tunnel luminaires	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 7717:2020	Lighting devices	LED Crosswalk Luminaires	Input Voltage: 220 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C 8000:1992	Lighting devices	Luminaires	insulation resistance :More than 4 MΩ Leakage current: 3.5 mA	BS	N
KS C 8010:2014	Lighting devices	Luminaries for road lighting	Input Voltage: Max 600 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598- 1:2014	Lighting devices	Luminaires - Part 1: General requirements and tests	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60598-2-1:2020	Lighting devices	Luminaires - Part 2-1: Particular requirements. Section One: Fixed general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2-2:2011	Lighting devices	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2-3:2014	Lighting devices	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2-4:2017	Lighting devices	Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60598-2-5:2015	Lighting devices	Luminaires - Part 2-5: Particular requirements - Floodlights	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 60598-2-8:2013	Lighting devices	Luminaires - Part 2-8: Particular requirements - Handlamps	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 61347-1:2015	Lighting devices	Lamp controlgear - Part 1: General and safety requirements	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 61347-2-13:2014	Lighting devices	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance : More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 62031:2018	Lighting devices	LED modules for general lighting - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
KS C IEC 62471:2008	Lighting devices	Photobiological safety of lamps and lamp systems	Irradiance : (250 ~ 2 500) nm Radiance : (300 ~ 1 400) nm	BS	N
KS C IEC 62560:2015	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	Input Voltage: Max 600 V Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
National Police Agency, LED traffic lights: 2020	Lighting devices	Standard Guidelines for LED Traffic Lights [except] 2. Controller compatibility test 4.(9) Light-off response test 5.(3) Uniformity of luminance 5.(4) Sun Pamtum Test	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
National Police Agency, Standard Guidelines for Variable Traffic Safety Signs:2017	Lighting devices	Standard Guidelines for Variable Traffic Safety Signs [except] 10.2.4 Impact test 10.2.8 Luminance and Luminance Ratio Test 10.2.9 Luminance Uniformity and Chromaticity Test 10.2.10 Beam Width Test 10.2.12 Optical output frequency test	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
National Police Agency, Standard Guidelines for Auxiliary Devices for Floor-Type Pedestrian Traffic Lights:2019	Lighting devices	Standard Guidelines for Auxiliary Devices for Floor-Type Pedestrian Traffic Lights [except] 9.2.1 Slip resistance 9.2.5 Static load structure 9.2.19 Luminance Ratio 9.2.27 Light Off Response 9.2.28 Features	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N
National Police Agency, Standard Guidelines for Illuminated and Illuminated Traffic Safety Signs:2018	Lighting devices	Standard Guidelines for Illuminated and Illuminated Traffic Safety Signs [except] 10.2.4 Impact test 10.2.8 Light sensitivity test 10.2.13 Retroreflective sheet test	Input Voltage: Max 250 V~ Input Current: Max 20 A Measured Temp : Max 200 °C Ground continue : Max 12 V, 60 A electric strength : 5 kV, 100 mA insulation resistance :More than 4 MΩ operation Temp. : (-30 ~ 170) °C	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ME Notice No.2022- 1(01.03.2022.)	Lighting devices	Eco-labeled products and certification standards EL203 ballast built-in lamp EL209 LED lamp for general lighting EL210 LED luminaire [Exclusions] - Environmental standards - 8.5 of EL210 LED luminaires Detection type luminaire detection range test method	Rating Voltage: Max 1 000 V	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

03. Electrical Testing

03.011 EMC (Electromagnetic Compatibility)

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS CISPR 11:2017	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
AS CISPR 11:2017	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
AS CISPR 14.1:2018	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS CISPR 14.1:2018	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS CISPR 15:2017	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.3:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.3:2012	Electronic devices	Generic standards - Emission standard for residential, commercial and light - industrial environment [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS 61000.6.3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS 61000.6.4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 6.4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS 61000.6.4:2012	Electronic devices	Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS CISPR 11:2011	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 11:2011	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 13:2012	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 13:2012	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 14.1:2013	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS CISPR 14.1:2013	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 14.1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 14.1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 15:2011	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 22:2009 +A1:2010	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measure [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 22:2009+A1:2010	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 32:2013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AS/NZS CISPR 32:2013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
AS/NZS CISPR 32:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
AS/NZS CISPR 32:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 11:2009 +A1:2010	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 11:2009 +A1:2010	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 11:2015	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 11:2015	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment ? Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 11:2015 +A1:2016	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 11:2015 +A1:2016	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 11:2015 +A1:2016 +A2:2019	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [exception] 6.2 rated input power 20 kVA over, 30 m measuring distance [exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 11:2015 +A1:2016 +A2:2019	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 13:2009(modified)	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 13:2009(modified)	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 14-1:2005 +A1:2008 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 14-1:2005 +A1:2008 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 14-1:2016 +ISH1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 14-1:2016 +ISH1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 14-1:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 14-1:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
CISPR 14-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 14-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
CISPR 14-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
CISPR 14-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
CISPR 14-2:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
CISPR 14-2:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
CISPR 15:2013 + IS1:2013 + IS2:2013	Electronic devices	Limits and methods of measurement of radio distur bance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 15:2013 +A1:2015	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 15:2018	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion los	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 22:2008	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 22:2008	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 24:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
CISPR 24:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
CISPR 24:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 24:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
CISPR 25:2008/COR1:20 09	Electronic devices	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	RE: 150 kHz ~ 2.5 GHz CE: 150 kHz ~ 108 MHz	BS	N
CISPR 25:2016	Electronic devices	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	RE: 150 kHz ~ 2.5 GHz CE: 150 kHz ~ 108 MHz	BS	N
CISPR 32:2012	Electronic devices	Electromagnetic compatibility of multimedia equipment- Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 32:2012	Electronic devices	Electromagnetic compatibility of multimedia equipment- Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 32:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
CISPR 32:2015 +A1:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
CISPR 32:2015 +A1:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 32:2015 /COR1:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
CISPR 32:2015 /COR1:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
CISPR 35:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
CISPR 35:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 1060- 3:1997+A2:2009	Electronic devices	Non-invasive sphygmomanometers - Part 3:Supplementary requirements for electro-mechanical blood pressure measuring systems	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 1060- 3:1997+A2:2009	Electronic devices	Non-invasive sphygmomanometers - Part 3:Supplementary requirements for electro-mechanical blood pressure measuring systems [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 50130-4:2011 +A1:2014	Electronic devices	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz V-DIP: 20 %, 30 %, 60 %, 100 %	BS-1	N
EN 50130-4:2011 +A1:2014	Electronic devices	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz V-DIP: 20 %, 30 %, 60 %, 100 %	BS	N
EN 55011:2009 +A1:2010	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2009 +A1:2010	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55011:2016	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m test method 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2016	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55011:2016 +A1:2017	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2016 +A1:2017	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55011:2016 +A1:2017 +A2:2021	Electronic devices	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55011:2016 +A1:2017 +A2:2021	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55013:2013	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55013:2013	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55013:2013 +A1:2016	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55013:2013 +A1:2016	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55014-1:2006 +A1:2009 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55014-1:2006 +A1:2009 +A2:2011	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55014-1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55014-1:2017	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55014- 1:2017+A11:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN 55014- 1:2017+A11:2020	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55014-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55014-2:1997 +A2:2008	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN 55014-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
EN 55014-2:2015	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN 55015:2013	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55015:2013 +A1:2015	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
EN 55022:2010 /AC:2011	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55022:2010 /AC:2011	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55024:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
EN 55024:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
EN 55024:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
EN 55024:2010 +A1:2015	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
EN 55032:2012/AC:2 013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55032:2012/AC:2 013	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55032:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 55032:2015	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55032:2015 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55032:2015 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55032:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 55032:2015 +A1:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 55035:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
EN 55035:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 55035:2017 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
EN 55035:2017 +A11:2020	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-1-11:2015	Electronic devices	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-11:2015	Electronic devices	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-1-12:2015	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-1-12:2015	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-1-12:2015 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-12:2015 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-1-2:2015	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-2:2015	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-1-2:2015 +A1:2021	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-1-2:2015 +A1:2021	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-25:2015	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-2-25:2015	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-26:2015	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-26:2015	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-27:2014	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-27:2014	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-34:2014	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-2-34:2014	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-37:2008 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-37:2008 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-49:2015	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-49:2015	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-4:2011	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 60601-2-4:2011	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 60601-2-4:2011 +A1:2019	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN 60601-2-4:2011 +A1:2019	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current ≤ 16 A per phase)	three-phase 380 V, 16 A	BS	N
EN 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current ≤ 16 A per phase)	one-phase 380 V, 16 A	BS-1	N
EN 61000-3-3:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	one-phase 380 V, 16 A	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-3-3:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	three-phase 380 V, 16 A	BS	N
EN 61000-3-3:2013+A1:2019	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	3 phase 380 V, 16 A	BS	N
EN 61000-3-3:2013+A1:2019	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	one phase 380 V, 16 A	BS-1	N
EN 61000-3-3:2013+A1:2019+A2:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	3 phase 380 V, 16 A	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-3-3:2013+A1:2019+A2:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	3 phase 380 V, 16 A	BS-1	N
EN 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0~100) %	BS	N
EN 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N
EN 61000-4-11:2004+A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0~100) %	BS	N
EN 61000-4-11:2004+A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-4-13:2002 +A2:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	three-phase 380 V, 16 A	BS	N
EN 61000-4-29:2001	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	V-DIP: (0 ~ 100) %	BS	N
EN 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC)- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	±30 kV	BS	N
EN 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC)- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
EN 61000-4-3:2006 +A1:2008+A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
EN 61000-4-3:2006 +A1:2008+A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	±4 kV	BS	N
EN 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±4 kV	BS-1	N
EN 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
EN 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N
EN 61000-4-5:2014+A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
EN 61000-4-5:2014+A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-4-6:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
EN 61000-4-6:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
EN 61000-4-6:2014/AC:2015	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
EN 61000-4-6:2014/AC:2015	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
EN 61000-4-8:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	30 A/m	BS	N
EN 61000-4-8:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-6-1:2007	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
EN 61000-6-1:2007	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments [exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN 61000-6-3:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN 61000-6-3:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment [exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 61000-6-4:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61000-6-4:2007+A1:2011	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments [exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN 61204-3:2000	Electronic devices	Low voltage power supplies, d.c. output - Part 3: Electromagnetic compatibility (EMC)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 60 %, >95 %	BS	N
EN 61204-3:2000	Electronic devices	Low voltage power supplies, d.c. output - Part 3: Electromagnetic compatibility (EMC) [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±30 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 60 %, >95 %	BS-1	N
EN 61326-1:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN 61326-1:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 61326-2-6:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN 61326-2-6:2013	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
EN 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
EN 61800-3:2004+A1:2012	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: (0 ~ 100) %	BS	N
EN 80601-2-30:2010+A1:2015	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 80601-2-30:2010+A1:2015	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN IEC 55014-1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
EN IEC 55014-1:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
EN IEC 55014-2:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
EN IEC 55014-2:2021	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN IEC 55015:2019	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61000-3-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	one phase 380 V, 16 A	BS-1	N
EN IEC 61000-3-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	3 phase 380 V, 16 A	BS	N
EN IEC 61000-3-2:2019 +A1:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
EN IEC 61000-3-2:2019 +A1:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
EN IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0~100) %	BS	N
EN IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
EN IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
EN IEC 61000-6-1:2019	Electronic devices	Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
EN IEC 61000-6-1:2019	Electronic devices	Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
EN IEC 61000-6-2:2019	Electronic devices	Generic standards - Immunity for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN IEC 61000-6-2:2019	Electronic devices	Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61000-6-3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN IEC 61000-6-3:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environment [exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN IEC 61000-6-4:2019	Electronic devices	Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN IEC 61000-6-4:2019	Electronic devices	Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
EN IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
EN IEC 61204-3:2018	Electronic devices	Low voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC)	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 1 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 60 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN IEC 61204-3:2018	Electronic devices	Low voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC) [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 1 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN IEC 61326-1:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN IEC 61326-1:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
EN IEC 61326-2-6:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
EN IEC 61326-2-6:2021	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/Products	Standard designation	Test range	Site	Field testing
EN IEC 61800-3:2018	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: (0 ~ 100) %	BS	N
EN IEC 80601-2-30:2019	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN IEC 80601-2-30:2019	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN IEC 80601-2-49:2019	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN IEC 80601-2-49:2019	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN ISO 80601-2-55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-56:2012	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-56:2012	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-56:2017+A1:2020	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-56:2017+A1:2020	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
EN ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN ISO 80601-2-61:2019	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
EN ISO 80601-2-61:2019	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-1 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-1 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-1 V2.2.2:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-1 V2.2.2:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-1 V2.2.3:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-1 V2.2.3:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-13 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-13 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-15 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 15: Specific conditions for commercially available amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-15 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 15: Specific conditions for commercially available amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-17 V3.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions For Broadband Data Transmission Systems;	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-17 V3.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions For Broadband Data Transmission Systems;	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-17 V3.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-17 V3.2.0:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-17 V3.2.4:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-17 V3.2.4:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-18 V1.3.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-18 V1.3.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-19 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-19 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-2 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-2 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment;	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 20 V2.1.1:2019	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489- 20 V2.1.1:2019	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 20 V2.1.2:2021	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-20 V2.1.2:2021	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-23 V1.5.1:2011	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-23 V1.5.1:2011	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-24 V1.5.1:2010	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility(EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-24 V1.5.1:2010	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility(EMC) standard for radio equipment and services; Part 24:Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-25 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 25: Specific conditions for CDMA 1x Spread Spectrum Mobile Stations and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-25 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 25: Specific conditions for CDMA 1x Spread Spectrum Mobile Stations and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-26 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 26: Specific conditions for CDMA 1x spread spectrum base stations, repeaters and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-26 V2.3.2:2005	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 26: Specific conditions for CDMA 1x spread spectrum base stations, repeaters and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-3 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-3 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-3 V2.1.2:2021	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-3 V2.1.2:2021	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-34 V2.1.1:2017	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-34 V2.1.1:2017	Electronic devices	Electromagnetic compatibility and radio spectrum matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-4 V3.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-4 V3.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-5 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-5 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489- 50 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 50 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489- 50 V2.2.2:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489- 50 V2.2.2:2020	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-51 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-51 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-52 V1.1.0:2016	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-52 V1.1.0:2016	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-52 V1.1.2:2020	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-52 V1.1.2:2020	Electronic devices	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-6 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-6 V2.2.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-7 V1.3.1:2005	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-7 V1.3.1:2005	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-8 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 8: Specific conditions for GSM base stations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
ETSI EN 301 489-8 V1.2.1:2002	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 8: Specific conditions for GSM base stations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
ETSI EN 301 489-9 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ETSI EN 301 489-9 V2.1.1:2019	Electronic devices	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in- ear monitoring devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30%, 100 %	BS	N
ETSI EN 303 340 V1.1.2:2016	Electronic devices	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard covering the essential requirements	Adjacent signal selectivity Dynamic range	BS-1	N
ETSI EN 303 372-2 V1.1.1:2016	Electronic devices	Satellite Earth Stations and Systems (SES); Satellite broadcast reception equipment;	Receiver sensitivity Receiver adjacent channel Receiver selectivity Receiver Blocking Receiver overloading	BS-1	N
FCC PART 15	Electronic devices	Radio frequency devices	RE: 30 MHz ~ 40 GHz CE: 150 kHz ~ 30 MHz	BS	N
FCC PART 15	Electronic devices	Radio frequency devices [Exception] 3 phase	RE: 30 MHz ~ 40 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
FCC PART 18	Electronic devices	Industrial, scientific, and medical equipment	RE: 9 kHz ~ 40 GHz CE: 9 kHz ~ 30 MHz	BS	N
FCC PART 18	Electronic devices	Industrial, scientific, and medical equipment [Exception] 3 phase	RE: 9 kHz ~ 40 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
ICES-003	Electronic devices	Information Technology Equipment (Including Digital Apparatus) - Limits and Methods of Measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
ICES-003	Electronic devices	Information Technology Equipment (Including Digital Apparatus) - Limits and Methods of Measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-1-11:2015	Electronic devices	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-11:2015	Electronic devices	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-1-11:2015 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-11:2015 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-1-12:2014	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-1-12:2014	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-12:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-1-12:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-2:2014	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-2:2014	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-1-2:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-1-2:2014 +A1:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-2-25:2011	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-25:2011	Electronic devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-26:2012	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-26:2012	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-26:2019	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs	RE: 9 KHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-27:2011 / COR1:2012	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-2-27:2011 / COR1:2012	Electronic devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-34:2011	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-34:2011	Electronic devices	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-37:2007 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-37:2007 +A1:2015	Electronic devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60601-2-49:2011	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-49:2011	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-4:2010	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-4:2010	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 60601-2-4:2010 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 60601-2-4:2010 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
IEC 61000-3-2:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-2:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
IEC 61000-3-2:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-2:2018 +A1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	three-phase 380 V, 16 A	BS	N
IEC 61000-3-2:2018 +A1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase) [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-3-3:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-3:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	three-phase 380 V, 16 A	BS	N
IEC 61000-3-3:2013 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-3:2013 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	three-phase 380 V, 16 A	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-3-3:2013 +A1:2017 +A2:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection [Exception] 3 phase	three-phase 380 V, 16 A	BS-1	N
IEC 61000-3-3:2013 +A1:2017 +A2:2021	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	three-phase 380 V, 16 A	BS	N
IEC 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
IEC 61000-4-11:2004	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
IEC 61000-4-11:2004 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-11:2004 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0~100) %	BS-1	N
IEC 61000-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	V-DIP: (0~100) %	BS	N
IEC 61000-4-13:2002 +A2:2015	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	three-phase 380 V, 16 A	BS	N
IEC 61000-4-29:2000	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	V-DIP: (0 ~ 100) %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-2:2008	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	±30 kV	BS	N
IEC 61000-4-2:2008	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
IEC 61000-4-3:2006 +A1:2007 +A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
IEC 61000-4-3:2006 +A1:2007 +A2:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
IEC 61000-4-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	±4 kV	BS	N
IEC 61000-4-4:2012	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	±4 kV	BS-1	N
IEC 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
IEC 61000-4-5:2014	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±15 kV	BS-1	N
IEC 61000-4-5:2014 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
IEC 61000-4-5:2014 +A1:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-4-6:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
IEC 61000-4-6:2013	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
IEC 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	30 A/m	BS	N
IEC 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N
IEC 61000-6-1:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light - industrial environments	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61000-6-1:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light - industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-6-1:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61000-6-1:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
IEC 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
IEC 61000-6-2:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61000-6-2:2016	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 61000-6-3:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-6-3:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61000-6-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61000-6-3:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light - industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61000-6-4:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61000-6-4:2006 +A1:2010	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61000-6-4:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61000-6-4:2018	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
IEC 61000-6-8:2020	Electronic devices	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
IEC 61204-3:2016	Electronic devices	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 20 %, 30 %, 60 %, 100 %	BS	N
IEC 61204-3:2016	Electronic devices	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC) [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 20 %, 30 %, 60 %, 100 %	BS-1	N
IEC 61326-1:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61326-1:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60%, 100 %	BS-1	N
IEC 61326-1:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60%, 100 %	BS	N
IEC 61326-1:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60%, 100 %	BS-1	N
IEC 61326-2- 6:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
IEC 61326-2- 6:2012	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 61326-2-6:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
IEC 61326-2-6:2020	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
IEC 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61547:2009	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 61547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
IEC 61547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/Products	Standard designation	Test range	Site	Field testing
IEC 61800-3:2004 +A1:2011	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: (0 ~ 100) %	BS	N
IEC 61800-3:2017	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: (0 ~ 100) %	BS	N
IEC 80601-2-26:2019	Electronic devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2-30:2009	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 80601-2-30:2009	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2-30:2009 +A1:2013	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 80601-2-30:2009 +A1:2013	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2-30:2018	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 80601-2-30:2018	Electronic devices	Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated non-invasive sphygmomanometers [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
IEC 80601-2-49:2018	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
IEC 80601-2-49:2018	Electronic devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 7637-2:2004	Electronic devices	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	12 V and 24 V system	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ISO 7637-2:2011	Electronic devices	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	12 V and 24 V system	BS	N
ISO 80601-2- 55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2- 55:2011	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2- 55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2- 55:2018	Electronic devices	Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2- 56:2009	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ISO 80601-2-56:2009	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-56:2017	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2-56:2017 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-56:2017 +A1:2018	Electronic devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-61:2011	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
ISO 80601-2-61:2017	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
ISO 80601-2-61:2017	Electronic devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
KN 60945:2015	Electronic devices	Maritime navigation and radio communication equipment and systems. General requirements. Methods of testing and required test results	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS	N
KN 60945:2015	Electronic devices	Electromagnetic compatibility standard for Maritime navigation radio equipment and Marine electric and electronic equipment [Exception] 3 phase	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
KS C 9547:2020	Electronic devices	Equipment for general lighting purposes- EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C 9610-3- 2:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	one phase 380 V, 16 A	BS-1	N
KS C 9610-3- 2:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-2: Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	3 phase 380 V, 16 A	BS	N
KS C 9610-3- 3:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems (equipment input current ≤ 16 A per phase)	3 phase 380 V, 16 A	BS	N
KS C 9610-3- 3:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems (equipment input current ≤ 16 A per phase)	one phase 380 V, 16 A	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: test and method - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
KS C 9610-4-11:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: test and method - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
KS C 9610-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test	±30 kV	BS	N
KS C 9610-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
KS C 9610-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
KS C 9610-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
KS C 9610-4-4:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test	±4 kV	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-4-4:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test [Exception] 3 phase	±4 kV	BS-1	N
KS C 9610-4-5:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test	±15 kV	BS	N
KS C 9610-4-5:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N
KS C 9610-4-6:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
KS C 9610-4-6:2020	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
KS C 9610-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test	30 A/m	BS	N
KS C 9610-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-6-1:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
KS C 9610-6-1:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C 9610-6-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C 9610-6-2:2019	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
KS C 9610-6-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9610-6-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9610-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS C 9610-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9800-3:2017	Electronic devices	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: (0 ~ 100) %	BS	N
KS C 9811:2019	Electronic devices	Industrial, scientific and medical (ISM) equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
KS C 9811:2019	Electronic devices	Industrial, scientific and medical (ISM) equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance, 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
KS C 9814-1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9814-1:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part1: Emission [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
KS C 9814-2:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
KS C 9814-2:2020	Electronic devices	Electromagnetic compatibility (EMC) - Requirements for household appliances, Electric tools and similar apparatus - Part2: Immunity [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C 9815:2019	Electronic devices	Limits and methods of measurement of radio distur bance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
KS C 9832:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9832:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS C 9835:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C 9835:2019	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C 9991:2019	Electronic devices	Limits and methods of measurement of meter equipment	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C 9991:2019	Electronic devices	Limits and methods of measurement of meter equipment [Exception] 3 phase	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS C 9992:2019	Electronic devices	Limits and methods of measurement of meter equipment	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 1 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m	BS	N
KS C 9992:2019	Electronic devices	Limits and methods of measurement of meter equipment [Exception] 3 phase	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 1 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m	BS-1	N
KS C 9994:2021	Electronic devices	Limits and methods of measurement of electric bicycle	RE: 30 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 20 MHz ~ 2 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C CISPR11:2017	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance, 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C CISPR11:2017	Electronic devices	Industrial, scientific and medical (ISM) radio- frequency equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
KS C IEC 60601-1- 2:2012	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
KS C IEC 60601-1- 2:2012	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N
KS C IEC 60601-1- 2:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS	N
KS C IEC 60601-1- 2:2020	Electronic devices	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz ESD: ±15 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-3-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	one phase 380 V, 16 A	BS-1	N
KS C IEC61000-3-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-2: Limits-Limit for harmonics current emissions (equipment input current \leq 16 A per phase)	3 phase 380 V, 16 A	BS	N
KS C IEC61000-3-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	one phase 380 V, 16 A	BS-1	N
KS C IEC61000-3-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	3 phase 380 V, 16 A	BS	N
KS C IEC61000-4-11:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
KS C IEC61000-4-11:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-11: Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test	±30 kV	BS	N
KS C IEC61000-4-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-2: test and method - Electrostatic discharge immunity test [Exception] 3 phase	±30 kV	BS-1	N
KS C IEC61000-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
KS C IEC61000-4-3:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-3: test and method - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
KS C IEC61000-4-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test	±4 kV	BS	N
KS C IEC61000-4-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-4: test and method - Electrical fast transient/burst immunity test [Exception] 3 phase	±4 kV	BS-1	N
KS C IEC61000-4-5:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test	±15 kV	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-4-5:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-5: test and method - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N
KS C IEC61000-4-6:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
KS C IEC61000-4-6:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-6: test and method - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
KS C IEC61000-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test	30 A/m	BS	N
KS C IEC61000-4-8:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 4-8: test and method - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N
KS C IEC61000-6-1:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
KS C IEC61000-6-1:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC61000-6-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
KS C IEC61000-6-2:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-2: Generic standards - Immunity for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
KS C IEC61000-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
KS C IEC61000-6-4:2017	Electronic devices	Electromagnetic compatibility (EMC) - part 6-4: Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
KS X 3124:2020	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3124:2020	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3125:2020	Electronic devices	Electromagnetic compatibility standard for Short-Range Devices (SRD)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3125:2020	Electronic devices	Electromagnetic compatibility standard for Short-Range Devices (SRD)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3126:2020	Electronic devices	Electromagnetic compatibility standard for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3126:2020	Electronic devices	Electromagnetic compatibility standard for Broadband Data Transmission Systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3127:2014	Electronic devices	Electromagnetic compatibility standard for Private land Mobile Radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3127:2014	Electronic devices	Electromagnetic compatibility standard for Private land Mobile Radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3128:2014	Electronic devices	Electromagnetic compatibility standard for Digital Enhanced Cordless Telecommunications equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3128:2014	Electronic devices	Electromagnetic compatibility standard for Digital Enhanced Cordless Telecommunications equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3129:2020	Electronic devices	Electromagnetic compatibility standard for mobile subscription radio telephone equipment and radio equipment for personal cell phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3129:2020	Electronic devices	Electromagnetic compatibility standard for mobile subscription radio telephone equipment and radio equipment for personal cell phones	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3130:2014	Electronic devices	Electromagnetic compatibility standard for audio and audio signal transmission Short-Range Devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3130:2014	Electronic devices	Electromagnetic compatibility standard for audio and audio signal transmission Short-Range Devices	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3131:2014	Electronic devices	Electromagnetic compatibility standard for Citizens' Band (CB) radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3131:2014	Electronic devices	Electromagnetic compatibility standard for Citizens' Band (CB) radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3132:2014	Electronic devices	Electromagnetic compatibility standard for TRS equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3132:2014	Electronic devices	Electromagnetic compatibility standard for TRS equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3134:2014	Electronic devices	Electromagnetic compatibility standard for Implantable wireless medical equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3134:2014	Electronic devices	Electromagnetic compatibility standard for Implantable wireless medical equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3135:2020	Electronic devices	Electromagnetic compatibility standard for Mobile phone, personal cell phone, mobile communication base station, wireless repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ± 8 kV RS: 80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3135:2020	Electronic devices	Electromagnetic compatibility standard for Mobile phone, personal cell phone, mobile communication base station, wireless repeater and ancillary equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3136:2014	Electronic devices	Electromagnetic compatibility standard for amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3136:2014	Electronic devices	Electromagnetic compatibility standard for amateur radio equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3137:2014	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3137:2014	Electronic devices	Electromagnetic compatibility standard for radio paging equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3138:2015	Electronic devices	Electromagnetic compatibility standard for Ground and Wall Probing Radar applications	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3138:2015	Electronic devices	Electromagnetic compatibility standard for Ground and Wall Probing Radar applications	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3139:2014	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
KS X 3139:2014	Electronic devices	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
KS X 3140:2014	Electronic devices	Electromagnetic compatibility standard for Maritime navigation radio equipment and Marine electric and electronic equipment	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS-1	N
KS X 3140:2014	Electronic devices	Electromagnetic compatibility standard for Maritime navigation radio equipment and Marine electric and electronic equipment	RE: 150 kHz ~ 2 GHz CE: 10 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.0 GHz EFT: ±2 kV SURGE: ±1 kV CS: 150 kHz ~ 80 MHz V-DIP: ±10 %, ±20 %, 100 %	BS	N
KS X 3143:2020	Electronic devices	Limits and methods of measurement of Home wireless power transmission equipment	RE: 9 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X 3143:2020	Electronic devices	Limits and methods of measurement of Home wireless power transmission equipment	RE: 9 kHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N
QCVN 103:2016/BTTTT	Electronic devices	Electromagnetic compatibility for Base Station, Repeater, ancillary equipment of digital cellular telecommunications systems GSM, W-CDMA FDD and LTE	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 103:2016/BTTTT	Electronic devices	Electromagnetic compatibility for Base Station, Repeater, ancillary equipment of digital cellular telecommunications systems GSM, W-CDMA FDD and LTE	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 112:2017/BTTTT	Electronic devices	General electromagnetic compatibility for radio broadband data transmission equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 112:2017/BTTTT	Electronic devices	General electromagnetic compatibility for radio broadband data transmission equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 118:2018/BTTTT	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
QCVN 118:2018/BTTTT	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
QCVN 18:2014/BTTTT	Electronic devices	General electromagnetic compatibility for radio communications equipment	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 18:2014/BTTTT	Electronic devices	General electromagnetic compatibility for radio communications equipment [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 86:2019/BTTTT	Electronic devices	Electromagnetic compatibility for mobile terminals and ancillary equipment of digital cellular telecommunication systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 86:2019/BTTTT	Electronic devices	Electromagnetic compatibility for mobile terminals and ancillary equipment of digital cellular telecommunication systems	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N
QCVN 96:2015 BTTTT	Electronic devices	Electromagnetic compatibility for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS	N
QCVN 96:2015 BTTTT	Electronic devices	Electromagnetic compatibility for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 211:2010	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30m measuring distance 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
SANS 211:2010	Electronic devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 6.2 rated input power 20 kVA over, 30 m measuring distance	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
SANS 213:2011	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 213:2011	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 214-1:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 214-1:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission [Exception] 3 phase	RE: 30 MHz ~ 1 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 214-2:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS	N
SANS 214-2:2009	Electronic devices	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 230 MHz V-DIP: 30 %, 60 %, 100 %	BS-1	N
SANS 215:2009	Electronic devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss	RE: 9 kHz ~ 300 MHz CE: 9 kHz ~ 30 MHz	BS	N
SANS 2200:2010	Electronic devices	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV EFT: ±1 kV	BS	N
SANS 222:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 222:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 224:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
SANS 224:2010	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
SANS 2332:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 2332:2017	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 2335:2018	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS	N
SANS 2335:2018	Electronic devices	Electromagnetic compatibility of multimedia equipment - Immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 60601-1-2:2014	Electronic devices	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.5 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, >95 %	BS	N
SANS 60601-1-2:2014	Electronic devices	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests [Exception] 3 phase	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.5 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 60 %, >95 %	BS-1	N
SANS 61000-3-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	3 상 380 V, 16 A	BS	N
SANS 61000-3-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	one-phase 380 V, 16 A	BS-1	N
SANS 61000-3-3:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	one-phase 380 V, 16 A	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61000-3-3:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	3 상 380 V, 16 A	BS	N
SANS 61000-4-11:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	V-DIP: (0 ~ 100) %	BS	N
SANS 61000-4-11:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [Exception] 3 phase	V-DIP: (0 ~ 100) %	BS-1	N
SANS 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	± 30 kV	BS	N
SANS 61000-4-2:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test [Exception] 3 phase	± 30 kV	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61000-4-3:2008	Electronic devices	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	80 MHz ~ 6 GHz	BS	N
SANS 61000-4-3:2008	Electronic devices	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test [Exception] 3 phase	80 MHz ~ 6 GHz	BS-1	N
SANS 61000-4-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	±4 kV	BS	N
SANS 61000-4-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test [Exception] 3 phase	±4 kV	BS-1	N
SANS 61000-4-5:2006	Electronic devices	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	±15 kV	BS	N
SANS 61000-4-5:2006	Electronic devices	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test [Exception] 3 phase	±5 kV	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61000-4-6:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz ~ 230 MHz	BS	N
SANS 61000-4-6:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields [Exception] 3 phase	150 kHz ~ 230 MHz	BS-1	N
SANS 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	30 A/m	BS	N
SANS 61000-4-8:2009	Electronic devices	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test [Exception] 3 phase	30 A/m	BS-1	N
SANS 61000-6-1:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
SANS 61000-6-1:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
SANS 61000-6-2:2005	Electronic devices	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
SANS 61000-6-3:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 61000-6-3:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
SANS 61000-6-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
SANS 61000-6-4:2011	Electronic devices	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 61326-1:2007	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS	N
SANS 61326-1:2007	Electronic devices	Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1: General requirements [Exception] 3 phase	RE: 9 KHz ~ 18 GHz CE: 150 kHz ~ 30 MHz ESD: ±8 kV RS: 80 MHz ~ 2.7 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: 30 %, 60 %, 100 %	BS-1	N
SANS 61547:2012	Electronic devices	Equipment for general lighting purposes - EMC immunity requirements	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS	N
SANS 61547:2012	Electronic devices	Equipment for general lighting purposes - EMC immunity requirements [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 3 A/m V-DIP: 30 %, 100 %	BS-1	N
TCVN 7189:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS	N
TCVN 7189:2009	Electronic devices	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [Exception] 3 phase	RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
TCVN 7317:2003	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS	N
TCVN 7317:2003	Electronic devices	Information technology equipment - Immunity characteristics - Limits and methods of measurement [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±1 kV SURGE: ±4 kV CS: 150 kHz ~ 80 MHz M/F: 1 A/m V-DIP: 70 %, 100 %	BS-1	N
TCVN 7600:2010	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS-1	N
TCVN 7600:2010	Electronic devices	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement	RE: 30 MHz ~ 18 GHz CE: 150 kHz ~ 30 MHz	BS	N
VCCI-CISPR 32:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS	N
VCCI-CISPR 32:2016	Electronic devices	Electromagnetic compatibility of multimedia equipment - Emission requirements [Exception] 3 phase	RE: 9 kHz ~ 18 GHz CE: 9 kHz ~ 30 MHz	BS-1	N
NFA Notice No.2017- 20(12.28.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for an automatic sprinkler system used in kitchen	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2017- 20(12.28.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for an automatic sprinkler system used in kitchen [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
NFA Notice No.2017- 4(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a fire detection receiver	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2017- 4(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a fire detection receiver [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N
NFA Notice No.2017- 7(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a repeater of fire alarm	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2017- 7(12.06.2017.)	Electronic devices	Type approval and Technical Conformity Criteria for a repeater of fire alarm [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N
NFA Notice No.2019- 10(01.24.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for fire sensor	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N
NFA Notice No.2019- 10(01.24.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for fire sensor [Exception] 3 phase	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS-1	N
NFA Notice No.2019- 15(01.31.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a exit sign	RE: 9 kHz ~ 30 MHz CE: 9 kHz ~ 30 MHz	BS	N
NFA Notice No.2019- 15(01.31.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a exit sign [Exception] 3 phase	RE: 9 kHz ~ 30 MHz CE: 9 kHz ~ 30 MHz	BS-1	N
NFA Notice No.2019- 45(07.04.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a gas alarm instrument	ESD: ±8 kV RS: 80 MHz ~ 1.0 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 100 MHz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
NFA Notice No.2019- 45(07.04.2019.)	Electronic devices	Type approval and Technical Conformity Criteria for a gas alarm instrument [Exception] 3 phase	ESD: ± 8 kV RS: 80 MHz ~ 1.0 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 100 MHz	BS-1	N

Korea Laboratory Accreditation Scheme

No. KT119

03. Electrical Testing

03.013 Energy Efficiency

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
AHAM HRF-1:2008	Electrical machinery for households	Energy and internal volume of refrigerating appliances	AC input power 10 kW or less	BS	N
ANSI/ASHRAE Standard 72-2014	Electrical machinery for households	Method of Testing Open and Closed Commercial Refrigerators and Freezers	AC input power 10 kW or less	BS	N
AS/NZS 4474.1:2007/A2:2011	Electrical machinery for households	Performance of household electrical appliances - Refrigerating appliances - Energy consumption and performance Part 1:Energy consumption and performance	AC input power 10 kW or less	BS	N
AS/NZS 4665.1:2005	Electrical machinery for households	Performance of external power supplies Part 1: Test method and energy performance mark	AC and DC input power 600 W or less	BS	N
AS/NZS 62087.1:2010	Electrical machinery for households	Power consumption of audio, video and related equipment - Methods of measurement	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
AS/NZS 62087.2.2:2011	Electrical machinery for households	Power consumption of audio, video and related equipment - Part 2.2: Minimum energy performance standards (MEPS) and energy rating label requirements for television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
AS/NZS IEC 62301:2014	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
CAN/CSA-C300-08:2008	Electrical machinery for households	Energy Performance and Capacity of Household Refrigerators, Refrigerator-Freezers, Freezers, and Wine Chillers	AC input power 10 kW or less	BS	N
Circular 36/2016/TT-BCT:2016	Electrical machinery for households	Regulations on Energy Efficiency (VNEEP) DoC and Energy Labels	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
Code of Conduct on Energy Efficiency of External Power Supplies Version 5:2013	Electrical machinery for households	External Power Supplies Code of Conduct - Version 5, 29 October 2013	AC and DC input/output power Output 0.3 W to 250 W	BS	N
DOE:EERE-2008-BT-STD-0005:2012	Electrical machinery for households	Energy Conservation Program: Energy Conservation Standards for External Power Supplies; Final Rule	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
Decision No.04/2017/QD-TTg of Vietnam Prime Minister:2017	Electrical machinery for households	Laptop computers PC Monitor (PC Display)	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 50563:2011 /A1:2013	Electrical machinery for households	External a.c.- d.c. and a.c.- a.c. power supplies - Determination of no-load power and average efficiency of active modes [Exception] 3 phase product	AC and DC input/output power 0.3 W ~ 2 400 W	BS	N
EN 50564:2011	Electrical machinery for households	Electrical and electronic house hold and office equipment- Measurement of low power consumption [Exception] 3 phase product	AC and DC input/output power 0.3 W ~ 2 400 W	BS	N
EN 62018:2003	Electrical machinery for households	Power consumption of information technology equipment - Measurement methods	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 62087-1:2016	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 1: General	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 62087-3:2016	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
EN 62087:2012	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
EN 62623:2013	Electrical machinery for households	Desktop and notebook computers - Measurement of energy consumption	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
ENERGY STAR Program Requirements for Computers	Electrical machinery for households	ENERGY STAR® Program Requirements Product Specification for Computers Eligibility Criteria Version 8.0 Rev. April-2020	AC and DC input power 0.3 W ~ 2 400 W	BS	N
ENERGY STAR® Program Requirements for Displays	Electrical machinery for households	ENERGY STAR® Program Requirements Product Specification for Displays Eligibility Criteria Version 8.0 (Rev. February-2020)	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
ENERGY STAR® Program Requirements for Imaging Equipment	Electrical machinery for households	ENERGY STAR® Product Specification for Imaging Equipment Eligibility Criteria Version 3.1	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
ENERGY STAR® Program Requirements for Residential Refrigerators and Freezers	Electrical machinery for households	ENERGY STAR® Program Requirements Product Specification for Residential Refrigerators and Freezers Eligibility Criteria Version 5.0	AC input power 10 kW or less	BS	N
ENERGY STAR® Program Requirements for Televisions	Electrical machinery for households	ENERGY STAR® Program Requirements for Televisions Eligibility Criteria Version 8.0	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
Greenhouse and Energy Minimum Standards (Television) Determination 2013 (No.2) 1	Electrical machinery for households	Greenhouse and Energy Minimum Standards (Television) Determination 2013 (No.2).	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62018:2003	Electrical machinery for households	Power consumption of information technology equipment - Measurement methods	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62087-1:2015	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 1: General	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 62087-3:2015	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62087-BD:2008	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62087-BD:2011	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62301:2005	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62301:2011	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
IEC 62552-1:2015	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods Part 1 : General Requirements	AC input power 10 kW or less	BS	N
IEC 62552-2:2015	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods Part 2 : Performance requirements	AC input power 10 kW or less	BS	N
IEC 62552-3:2015	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods Part 3 : Energy consumption and volume	AC input power 10 kW or less	BS	N
IEC 62623:2012	Electrical machinery for households	Desktop and notebook computers - Measurement of energy consumption	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IRAM 2404-1:1997	Electrical machinery for households	Household refrigerating appliances. Determining the power consumption and noise level. Part 1: Methods of measurement of energy consumption and its associated features	AC input power 10 kW or less	BS	N
IRAM 2404-2:2000	Electrical machinery for households	Refrigerators frozen-food storage cabinets and food freezers for household and similar use. Measurement of emission of airborne acoustical noise	AC input power 10 kW or less	BS	N
IRAM 2404-3:1998	Electrical machinery for households	Energy efficiency labelling of household refrigerating appliances. Part 3 - Label	AC input power 10 kW or less	BS	N
KS C IEC 62018:2003	Electrical machinery for households	Power consumption of information technology equipment - Measurement methods	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
KS C IEC 62087:2002	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	AC and DC input power (0 ~ 2 200) W	BS	N
KS C IEC 62301:2011	Electrical machinery for households	Household electrical appliances - Measurement of standby power	AC and DC input power 100 W or less	BS	N
KS C IEC 62552:2014	Electrical machinery for households	Household Refrigerating Appliances - Characteristics And Test Methods	AC input power 10 kW or less	BS	N
MS 2576:2014	Electrical machinery for households	MINIMUM ENERGY PERFORMANCE STANDARDS (MEPS) FOR TELEVISION	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
MS IEC 62301:2006	Electrical machinery for households	Household electrical appliance-Measurement of standby power	AC and DC input power 500 W or less	BS	N
MS IEC 62301:2012	Electrical machinery for households	Household electrical appliance-Measurement of standby power	AC and DC input power 500 W or less	BS	N
NCh3107.of2008	Electrical machinery for households	Artefactos electricos de uso domestico-eficiencia energetica en modo enespera - etiquetado.	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
NRCan:Amendme nt 14:2018	Electrical machinery for households	Energy Efficiency Regulations for External Power Supplies, published on October 31, 2018 in the Canada Gazette, Part II	AC and DC output power 250 W or less	BS	N
NTE INEN 2206:2011	Electrical machinery for households	Household refrigerating appliances with or without frosting. Refrigerators with or without low temperature compartment. Inspection Requirements	AC input power 10 kW or less	BS	N
PE N° 8/02/1 (30- 08-2010)	Electrical machinery for households	Protocolo de analisis y/o ensayos de eficiencia energetica de producto electrico - Televisor	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
PE N° 8/2/1-2 (13-12-2013)	Electrical machinery for households	Protocolo de analisis y/o ensayos de eficiencia energetica de producto electrico - Televisor	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
RTE INEN 035:2009	Electrical machinery for households	Energy efficiency in household refrigerating appliances. Energy consumption, test methods and labeling	AC input power 10 kW or less	BS	N
RTE INEN 117:2014	Electrical machinery for households	Eficiencia energetica en televisiones. Reporte de consumo de energia, metodo de ensayo y etiquetado	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62087- 1:2017 (Ed. 1.00)	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 1: General	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62087- 3:2017 (Ed. 1.00)	Electrical machinery for households	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62087:2010 (Ed. 1.00)	Electrical machinery for households	Methods of measurement for the power consumption of audio, video and related equipment	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SANS 62301:2012 (Ed. 2.00)	Electrical machinery for households	Household electrical appliances - Measurement of standby power	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
SANS 941:2014 (Ed. 1.01)	Electrical machinery for households	Energy efficiency of electrical and electronic apparatus	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
SASO 2664:2013	Electrical machinery for households	Energy Performance and Capacity of Household Refrigerators, Refrigerators-Freezers, and Freezers	AC input power 10 kW or less	BS	N
TCVN 11847:2017	Electrical machinery for households	Desktop and Notebook Computer - Measurement of energy consumption	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
TCVN 11848:2017	Electrical machinery for households	Notebook Computer - Energy Efficiency	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
TCVN 9508:2012 (IEC 62301:2011)	Electrical machinery for households	Requirements on Energy Efficiency of Computer Monitor	Input Voltage: 500 V or less Input Frequency: (50/60) Hz	BS	N
TIS 2186- 2547:2004	Electrical machinery for households	THAI INDUSTRIAL STANDARD for HOUSEHOLD REFRIGERATORS: ENVIRONMENT REQUIREMENTS; ENERGY EFFICIENCY	AC input power 10 kW or less	BS	N
MOTIE Notice No.2021- 166(10.25.2021.)	Electrical machinery for households	Ministry of trade, Industry and energy notice No.2020-10 1- 9. LED Guide lights 1-15. LED module for test signs 1- 20. Luminaires 1- 21. LED Lamps	AC 220 V, 60 Hz DC 50 V or less 2 000 W	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2022- 33(15.02.2022.)	Electrical machinery for households	Standby power reduction program management regulation 1- 3. Printer 1- 4. Fax Machines 1- 5. Copiers 1- 6. Scanners 1- 7. Multifunctional Devices 1- 8. Energy-saving & Controlling Devices 1- 10. Home Audio Products 1- 11. DVD player 1- 12. Radio Cassette Players 1- 13. Microwave Ovens 1- 15. Doorphones 1- 16. Cordless/ Corded Phones 1- 17. Bidets 1- 20. Hand Dryers 1- 21. Servers 1- 22. Digital converters 1- 23. Wireless/ Wired Routers	 3 000 W or less 3 000 W or less 5 000 W or less 1 000 W or less 5 000 W or less - 1 000 W or less 150 W or less 1 000 W or less 4 000W or less 100 W or less 150 W or less 2 000 W or less 3 000 W or less - 100 W or less - -	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2022- 64(04.27.2022.)	Electrical machinery for households	Regulation for Efficient Management Products 1. Electric refrigerator 3. Kimchi refrigerator 9. Electric cold and hot water dispensers a) Storage tank-type 10. Rice cooker 12. Electric fan 20. Adapter . charger 22. Commercial refrigerator 26. Television set 28. Electric heater 30. Dehumidifier 36. Electric range 37. set-top box 38. Converter internal- type LED lamp 39. Converter external- type LED lamp 42. signage displays 44. Monitors	Adjusted volume : 1 000 L or less Adjusted volume : 1 000 L or less rated power consumption 1 000 W or less 20 person or less wing diameter 20 cm ~ 41 cm Adapter nameplate output power 150 W or less charger of input power 20 W or less Commercial (business) refrigerator and refrigerator-freezer : Adjusted volume 300 L ~ 2 000 L display cabinets : Adjusted volume 300L ~ 1 500L diagonal screen length between not less than (47 ~ 216) cm rated power consumption 500 W ~ 10 kW rated power consumption 1 000 W or less rated power consumption 1 kW ~ 10 kW rated power consumption 150 W or less 150 W or less 30 W or less diagonal screen length between not less than (30.48 ~ 154.94) cm diagonal screen length between not less than (153 cm less)	BS	N

Korea Laboratory Accreditation Scheme

No. KT119

03. Electrical Testing

03.014 Environmental and Reliability

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
BS EN 60945:2002	Electrical materials and components	Maritime navigation and radiocommunication equipment and systems. General requirement - Methods of testing and required test results [Applicable item] 7.1 Extreme power supply 8.1 General 8.2 Dry heat 8.3 Damp heat 8.4 Low temperature 8.5 Thermal shock 8.6.1 Drop on hard 8.7 Vibration 8.12 Corrosion	8.2 Temperature: 55 °C 8.3 Temperature: 40 °C Humidity: 93 % R.H. 8.4 Temperature: -30 °C 8.6.1 (0 ~ 1 000) mm 8.7 Frequency (2 ~ 13.2) Hz Acceleration: 7 m/s ² 8.8 IPX7 8.12 Temperature : (23 ~ 60) °C Humidity: (30 ~ 95) % spray : (1.0 ~ 2.0) mL/h, NaCl: 5% Ph : (6.5 ~ 7.2)	BS-2	N
BS EN 60945:2002	Electrical materials and components	Maritime navigation and radiocommunication equipment and systems. General requirement - Methods of testing and required test results [Applicable item] 8.7 Vibration	Displacement ±1 mm Frequency (2 ~ 13.2) Hz Acceleration 7 m/s ²	SF-2	N
EN 60529:1991 +A1:1992+A2:201 3	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
EN 60529:1991+A1:1 992+A2:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP68	SF-1	N
IEC 60068-2- 11:2021	Electrical materials and components	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	Temperature 35 °C, spray (1.0 ~ 2.0) mL/h, NaCl : 5 % pH (6.5 ~ 7.2)	BS-2	N
IEC 60068-2- 11:2021	Electrical materials and components	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	Temperature 35 °C spray (1.0 ~ 2.0) mL/h NaCl : 5 % pH (6.5 ~ 7.2)	SF-1	N
IEC 60068-2- 14:2009	Electrical materials and components	Environmental testing - Part 2-14: Tests - Test N: Change of temperature [Exception] 9 Test Nc : Rapid change of temperature, two- fluid-bath method	low temperature : (-60 ~ -5) °C, high temperature : (30 ~ 150) °C	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60068-2-1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold	Temperature : (-65 ~ 5) °C	SF-1	N
IEC 60068-2-1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 Test Ad 5.4 Test Ae	Temperature: (-65 ~ 5) °C	BS-2	N
IEC 60068-2-1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 Test Ad 5.4 Test Ae	Temperature:(-65 ~ 5) °C	SF-2	N
IEC 60068-2-27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Acceleration: (50 ~ 500) m/s ² Shock duration: (2.0 ~ 30.0) ms	SF-2	N
IEC 60068-2-27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Acceleration: (50 ~ 1 500) m/s ² Shock duration: (2.0 ~ 30.0) ms	BS-2	N
IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat	Temperature : (10 ~ 90) °C	SF-1	N
IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 Test Bd 5.4 Test Be	Temperature : (10 ~ 90) °C	BS-2	N
IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 Test Bd 5.4 Test Be	Temperature: (30 ~ 100) °C	SF-2	N
IEC 60068-2-30:2005	Electrical materials and components	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	Temperature : (23 ~ 55) °C, Humidity :(45 ~ 95) % R.H	BS-2	N
IEC 60068-2-31:2008	Electrical materials and components	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	heights : (25 ~ 1 500) mm, mass : (1 ~ 50) kg	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60068-2-38:2021	Electrical materials and components	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	Temperature : (23 ~ 65) °C Humidity : (45 ~ 95) % R.H	BS-2	N
IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray: (1.0 ~ 2.0) mL/h, NaCl 5 %, pH: (6.5 ~ 7.2)	BS-2	N
IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray: (1.0 ~ 2.0) mL/h, NaCl 5 %, pH: (6.5 ~ 7.2)	SF-1	N
IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	BS-2	N
IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	SF-2	N
IEC 60068-2-61:1991	Electrical materials and components	Environmental testing - Part 2-61: Test methods - Test Z/ABDM: Climatic sequence [Exception] 8.2.4 Low air pressure	Temperature: (-55 ~ 100) °C Humidity: (45 ~ 95) % R.H	BS-2	N
IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	SF-2	N
IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	BS-2	N
IEC 60068-2-66:1994	Electrical materials and components	Environmental testing - Part 2- Test methods - Test Cx: Damp heat, steady state (unsaturated pressurized vapour)	Temperature: (110 ~ 130) °C, Humidity: 85 % R.H	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60068-2-67:1995	Electrical materials and components	Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components	Temperature: 85 , °C Humidity: 85 % R.H	BS-2	N
IEC 60068-2-6:2007	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	BS-2	N
IEC 60068-2-6:2007	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	SF-2	N
IEC 60068-2-75:2014	Electrical materials and components	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	Energy : (0.14 ~ 50) J	BS-2	N
IEC 60068-2-78:2012	Electrical materials and components	Environmental testing - Part 2-78 : Tests-Test Cab : Damp heat, steady state	Humidity : (85 ~ 93) % R.H	BS-2	N
IEC 60529:1989 +A1:1999+A2:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
IEC 60529:1989 +A1:1999+A2:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP68	SF-1	N
IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.2 Dry heat 8.3 Damp heat 8.4 Low temperature 8.6.1 Drop on hard surface 8.7 Vibration 8.8 Rain and Sprat(exposed equipment) 8.12 Corrosion(Salt spray)(All kinds of equipment)	8.2 Temperature: 55 °C 8.3 Temperature: 40 °C Humidity: 93 % R.H. 8.4 Temperature: -30 °C 8.6.1 (0 ~ 1 000) mm 8.7 Frequency: (2 ~ 13.2) Hz Acceleration: 7 m/s ² 8.8 IPX7 8.12 Temperature : (23 ~ 60) °C Humidity: (30 ~ 95) % spray : (1.0 ~ 2.0) mL/h, NaCl: 5 % pH : (6.5 ~ 7.2)	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.7 Vibration	Displacement ± 1 mm Frequency (2~13.2) Hz Acceleration 7 m/s^2	SF-2	N
IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s^2 Shock 1) Acceleration: (30 ~ 300) m/s^2 2) Shock duration: (18 ~ 30) ms	SF-2	N
IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s^2 Shock 1) Acceleration: (30 ~ 1 000) m/s^2 2) Shock duration: (6 ~ 30) ms	BS-2	N
IEC 62262:2002+AMD 1:2021	Electrical materials and components	Degrees of protection provided by enclosures for electrical equipment a gainst external mechanical impacts(IK code)	Energy level: (0.14 ~ 20) J	BS-2	N
ISO 10055:1996	Electrical materials and components	Mechanical vibration- Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s^2	BS-2	N
ISO 10055:1996	Electrical materials and components	Mechanical vibration- Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s^2	SF-2	N
KC 60529:2014	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
KC 60529:2015	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP68	SF-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS B ISO 10055:1996	Electrical materials and components	Mechanical vibration - Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s ²	SF-2	N
KS B ISO 10055:1996	Electrical materials and components	Mechanical vibration - Vibration testing requirements for shipboard equipment and machinery components	Frequency (2 ~ 100) Hz Displacement (1 ~ 2.5) mm Acceleration (7 ~ 40) m/s ²	BS-2	N
KS C IEC 60068-2- 11:1981	Electrical materials and components	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist	Temperature: 35 °C, NaCl: 5 %, pH: (6.5 ~ 7.2)	BS-2	N
KS C IEC 60068-2- 11:1981	Electrical materials and components	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist	Temperature: 35 °C, NaCl: 5 %, pH: (6.5 ~ 7.2)	SF-1	N
KS C IEC 60068-2- 14:2009	Electrical materials and components	Environmental testing - Part 2-14: Tests - Test N: Change of temperature [Exception] 9 Sudden change of test Nc temperature	low temperature: (-60 ~ -5) °C, high temperature: (30 ~ 150) °C	BS-2	N
KS C IEC 60068-2- 1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold	Temperature: (-65 ~ 5) °C	SF-1	N
KS C IEC 60068-2- 1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 시험 Ad 5.4 시험 Ae	Temperature:(-65 ~ 5) °C	SF-2	N
KS C IEC 60068-2- 1:2007	Electrical materials and components	Environmental testing - Part 2-1: Tests - Test A: Cold [Exception] 5.3 시험 Ad 5.4 시험 Ae	Temperature: (-65 ~ 5) °C	BS-2	N
KS C IEC 60068-2- 27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Temperature: (30 ~100) °C	SF-2	N
KS C IEC 60068-2- 27:2008	Electrical materials and components	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	Acceleration: (50 ~ 1 500) m/s ² Shock duration: (2.0 ~ 30.0) ms	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat	Temperature: (30 ~ 100) °C	SF-1	N
KS C IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 시험 Bd 5.4 시험 Be	Temperature: (30 ~ 100) °C	BS-2	N
KS C IEC 60068-2-2:2007	Electrical materials and components	Environmental testing - Part 2-2: Tests - Test B: Dry heat [Exception] 5.3 시험 Bd 5.4 시험 Be	Temperature: (30 ~ 100) °C	SF-2	N
KS C IEC 60068-2-30:2005	Electrical materials and components	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	Acceleration: (50 ~ 500) m/s ² Shock duration: (2 ~ 30) ms	BS-2	N
KS C IEC 60068-2-30:2014	Electrical materials and components	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	Acceleration: (50 ~ 500) m/s ² Shock duration: (2 ~ 30) ms	BS-2	N
KS C IEC 60068-2-31:2008	Electrical materials and components	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	Temperature: (23 ~ 55) °C, Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-38:2008	Electrical materials and components	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	heights: (25 ~ 1 500) mm, mass: (1 ~ 50) kg	BS-2	N
KS C IEC 60068-2-38:2021	Electrical materials and components	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	heights: (25 ~ 1 500) mm, mass: (1 ~ 50) kg	BS-2	N
KS C IEC 60068-2-52:2010	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray : (1.0 ~ 2.0) mL/h, NaCl: 5 %, pH: (6.5 ~ 7.2)	SF-1	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-52:2010	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (-10 ~ 65) °C, Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (23 ~ 40) °C, Humidity: (45 ~ 95) % R.H, spray : (1.0 ~ 2.0) mL/h, NaCl: 5 %, pH: (6.5 ~ 7.2)	SF-1	N
KS C IEC 60068-2-52:2017	Electrical materials and components	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	Temperature: (-10 ~ 65) °C, Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	BS-2	N
KS C IEC 60068-2-57:2013	Electrical materials and components	Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history and sine-beat method	Frequency: (5 ~ 2 000) Hz, Acceleration: (0.98 ~ 200) m/s ²	SF-2	N
KS C IEC 60068-2-61:1991	Electrical materials and components	Environmental testing — Part 2-61: Test methods — Test Z/ABDM: Climatic sequence [Exception] 8.2.4 Low air pressur	Temperature: (-55 ~ 100) °C Humidity: (45 ~ 95) % R.H	BS-2	N
KS C IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (Sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	SF-2	N
KS C IEC 60068-2-64:2008	Electrical materials and components	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	Frequency: (5 ~ 2 000) Hz ASD range (sample weight: under 500 kg) (0.0013 ~ 55.5) (m/s ²) ² /Hz	BS-2	N
KS C IEC 60068-2-66:1994	Electrical materials and components	Environmental testing — Part 2-66: Tests methods — Test Cx: Damp heat, steady state(unsaturated pressurized vapour)	Temperature: (110 ~ 130) °C, Humidity: 85 % R.H	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 60068-2-67:1995	Electrical materials and components	Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components	Temperature: 85 °C, Humidity: 85 % R.H	BS-2	N
KS C IEC 60068-2-6:2015	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	BS-2	N
KS C IEC 60068-2-6:2015	Electrical materials and components	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	Frequency: (5 ~ 2 000) Hz Acceleration: (20 ~ 200) m/s ² Amplitude: (0.15 ~ 1.5) mm	SF-2	N
KS C IEC 60068-2-75:2014	Electrical materials and components	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	Energy : (0.14 ~ 50) J	BS-2	N
KS C IEC 60068-2-78:2012	Electrical materials and components	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	Temperature : (30 ~ 40) °C Humidity : (85 ~ 93) % R.H	BS-2	N
KS C IEC 60529:2006	Electrical materials and components	Degrees of protection provided by enclosures(IP code)	IP00 - IP66	SF-2	N
KS C IEC 60529:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP code) [Exception] 14.2.9 Test for second characteristic numeral 9 with a spray nozzle	IP00 - IP66	SF-2	N
KS C IEC 60529:2013	Electrical materials and components	Degrees of protection provided by enclosures (IP Code) [Exception] 14.2.9 Test for second characteristic numeral 9 with a spray nozzle	IP00 - IP68	SF-1	N
KS C IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s ² Shock 1) Acceleration: (30 ~ 300) m/s ² 2) Shock duration: (18 ~ 30) ms	SF-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS C IEC 61373:2010	Electrical materials and components	Railway applications - Rolling stock equipment - Shock and vibration tests	Vibration 1) Frequency: (5 ~ 200) Hz 2) Acceleration: (0.37 ~ 144) m/s ² Shock 1) Acceleration: (30 ~ 1 000) m/s ² 2) Shock duration: (6 ~ 30) ms	BS-2	N
KS C IEC 62262:2002	Electrical materials and components	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	Energy level: (0.14 ~ 20) J	BS-2	N
KS R 9144:2021	Electrical materials and components	Test methods for vibration of parts of railway rolling stock	Frequency: (1 ~ 70) Hz Acceleration: (4.90 ~ 490) m/s ²	BS-2	N
KS R 9144:2021	Electrical materials and components	Test methods for vibration of parts of railway rolling stock	Frequency: (1 ~ 70) Hz Acceleration: (4.90 ~ 490) m/s ²	SF-2	N
KS R 9186:2021	Electrical materials and components	Parts for railway signal - Vibration test methods	Frequency: (10 ~ 1 000) Hz Acceleration: (4.90 ~ 147) m/s ²	SF-2	N
KS R 9186:2021	Electrical materials and components	Parts for railway signal - Vibration test methods	Frequency: (10 ~ 1 000) Hz Acceleration: (4.90 ~ 147) m/s ²	BS-2	N
KS R 9191:1996	Electrical materials and components	HIGH AND LOW TEMPERATURE TESTING METHODS FOR PARTS OF RAILWAY SIGNALING	Temperature : (-30 ~ 60) °C	BS-2	N
KS R 9192:1996	Electrical materials and components	CHANGE OF TEMPERATURE TESTING METHOD FOR PARTS OF RAILWAY SIGNALING	Temperature : (-30 ~ 60) °C	BS-2	N
KS X IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.7 Vibration 8.8 Rain and Sprat(exposed equipment)	Displacement (1 mm Frequency (2 ~ 13.2) Hz Acceleration 7m/s ²	SF-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
KS X IEC 60945:2002	Electrical materials and components	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [Applicable item] 8.2 Dry heat 8.3 Damp heat 8.4 Low temperature 8.5 thermal shock(portable device) 8.6.1 Drop on hard surface 8.7 Vibration 8.8 Rain and Sprat(exposed equipment) 8.12 Corrosion(Salt spray)(All kinds of equipment)	8.2 Temperature: 55 °C 8.3 Temperature: 40 °C Humidity: 93 % R.H. 8.4 Temperature: -30 °C 8.6.1 (0 ~ 1 000) mm 8.7 Frequency: (2 ~ 13.2) Hz Acceleration: 7 m/s ² 8.8 IPX7 8.12 Temperature : (23 ~ 60) °C Humidity: (30 ~ 95) % spray : (1.0 ~ 2.0) mL/h, NaCl: 5 % pH : (6.5 ~ 7.2)	BS-2	N
MIL-STD-167-1A:2005	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL AND TYPE II - INTERNALLY EXCITED)	Frequency: (16 ~ 33) Hz Acceleration: (0.98 ~ 980) m/s ² Amplitude: (0.254 ~ 0.508) mm	SF-2	N
MIL-STD-167-1A:2005	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL AND TYPE II - INTERNALLY EXCITED) [Exception] TYPE II - INTERNALLY EXCITED	Frequency: (16 ~ 33) Hz Acceleration: (0.98 ~ 980) m/s ² Amplitude: (0.254 ~ 0.508) mm	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/Products	Standard designation	Test range	Site	Field testing
MIL-STD-810F:2000	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.4 High temperature 502.4 Low temperature 503.4 Temperature shock 507.4 Humidity 509.4 Salt Fog 514.5 Vibration 516.5 Shock	501.4 : Max. 180 °C 502.4 : Min. -60 °C 503.4 : Temperature (-60 ~ 180) °C 507.4 : (20 ~ 95) % R.H. 509.4 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1)% Ph: (6.5 ~ 7.2) 514.5 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.5 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N
MIL-STD-810F:2000	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.4 High temperature 502.4 Low temperature 503.4 Temperature shock 507.4 Humidity 509.4 Salt Fog 514.5 Vibration 516.5 Shock	501.4 : Max. 150 °C 502.4 : Min. -50 °C 507.4 : (20 ~ 95) % R.H. 514.5 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.5 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N
MIL-STD-810G:2008	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.5 High temperature 502.5 Low temperature 503.5 Temperature shock 507.5 Humidity 509.5 Salt Fog 514.6 Vibration 516.6 Shock	501.5 : Max. 180 °C 502.5 : Min. -60 °C 503.5 : Temperature (-60 ~ 180) °C 507.5 : (20 ~ 95) % R.H. 509.5 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1)% Ph: (6.5 ~ 7.2) 514.6 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.6 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MIL-STD-810G:2008	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.5 High temperature 502.5 Low temperature 503.5 Temperature shock 507.5 Humidity 509.5 Salt Fog 514.6 Vibration 516.6 Shock	501.5 : Max. 150 °C 502.5 : Min. -50 °C 507.5 : (20 ~ 95) % R.H. 514.6 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.6 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N
MIL-STD-810G:2014	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.6 High temperature 502.6 Low temperature 503.6 Temperature shock 507.6 Humidity 509.6 Salt Fog 514.7 Vibration 516.7 Shock	501.6 : Max. 150 °C 502.6 : Min. -50 °C 507.6 : (20 ~ 95) % R.H. 514.7 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.7 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N
MIL-STD-810G:2014	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.6 High temperature 502.6 Low temperature 503.6 Temperature shock 507.6 Humidity 509.6 Salt Fog 514.7 Vibration 516.7 Shock	501.6 : Max. 180 °C 502.6 : Min. -60 °C 503.6 : Temperature (-60 ~ 180) °C 507.6 : (20 ~ 95) % R.H. 509.6 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1) % Ph: (6.5 ~ 7.2) 514.7 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.7 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
MIL-STD-810H:2019	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.7 High temperature 502.7 Low temperature 503.7 Temperature shock 507.6 Humidity 509.7 Salt Fog 514.8 Vibration 516.8 Shock	501.7 : Max. 150 °C 502.7 : Min. -50 °C 507.6 : (20 ~ 95) % R.H. 514.8 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.8 : Acceleration : (98 ~ 500) m/s ² Duration : (1 ~ 30) ms	SF-2	N
MIL-STD-810H:2019	Electrical materials and components	DEPARTMENT OF DEFENSE TEST METHOD STANDARD: ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS [Applicable item] 501.7 High temperature 502.7 Low temperature 503.7 Temperature shock 507.6 Humidity 509.7 Salt Fog 514.8 Vibration 516.8 Shock	501.7 : Max. 180 °C 502.7 : Min. -60 °C 503.7 : Temperature (-60 ~ 180) °C 507.6 : (20 ~ 95) % R.H. 509.7 : Salt Fog Temperature: (25 ~ 50) °C Salt Fog Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1)% Ph: (6.5 ~ 7.2) 514.8 : Frequency : (4 ~ 2 000) Hz Acceleration : (1 ~ 980) m/s ² 516.8 : Acceleration : (98 ~ 980) m/s ² Duration : (1 ~ 30) ms	BS-2	N
RTCA/DO-160G:2010	Electrical materials and components	Environment Condition and Test Procedure for Airbone Equipment [Applicable item] Section 4: Temperature and Altitude Section 7: Operational Shocks and Crash Safety Section 8: Vibration [Exception] 4.6 Altitude, Decompression and Overpressure Tests	Section 4 : Temperature: (-50 ~ 150) °C Humidity: (20 ~ 95) % R.H. Section 7 : Acceleration: (98 ~ 1 500) m/s ² Duration (1 ~ 30) ms Section 8 : Frequency (4 ~ 2 000) Hz Acceleration (1 ~ 980) m/s ²	SF-2	N

Korea Laboratory Accreditation Scheme

No. KT119

Test method	Materials/ Products	Standard designation	Test range	Site	Field testing
RTCA/DO-160G:2010	Electrical materials and components	Environment Condition and Test Procedure for Airbone Equipment [Applicable item] Section 7: Operational Shocks and Crash Safety Section 8: Vibration Section 14: Salt Spray	Section 4 : Temperature: (-60 ~ 180) °C Humidity: (20 ~ 95) % R.H. Section 7 : Acceleration: (98 ~ 1 500) m/s ² Duration (1 ~ 30) ms Section 8 : Frequency (4 ~ 2 000) Hz Acceleration (1 ~ 980) m/s ² Section 14: Salt Spray Temperature: (25 ~ 50) °C Salt Spray Humidity: (20 ~ 95) % R.H. NaCl: (5 ± 1) % Ph: (6.5 ~ 7.2)	BS-2	N

End.

CERTIFICATE OF ACCREDITATION

Eurofins KCTL Co.,Ltd.

Accreditation No. : KT231

Corporation Registration No. : 134511-0050720

Address of Laboratory : (Branch site)65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (Suwon Lab)

(Branch site-1)28 Mosan-gil, Jeongnam-myeon, Hwaseong-si, Gyeonggi-do, Republic of Korea (Hwaseong Lab)

(Branch site-2)52-20 Sinjeong-ro 41beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea (Yongin Lab)

(Branch site-3)8 Sanbon-ro 324beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea (Gunpo Lab)

Date of Initial Accreditation : September 15, 2004

Validity of Accreditation : September 14, 2020 ~ September 13, 2024

Scope of Accreditation : Attached Annex

Date of issue : April 03, 2023

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

Korea Laboratory Accreditation Scheme

CERTIFICATE OF ACCREDITATION

Korea Testing Certification Institute

Accreditation No.: KT005

Corporation Registration No.: 134122 - 0007304

Address of Laboratory : (Branch site)22 Heungan-daero 27beon-gil, Gunpo-si,
Gyeonggi-do, Republic of Korea
(Satellite facilities-1) 57, Yangcheong 3-gil, Ochang-eup,
Cheongwon-gun, Chungcheongbuk-do, Republic of Korea
(Branch site-1)69, Taejeong-ro, Maengdong-myeon, Eumseong-gun,
Chungcheongbuk-do, Republic of Korea
(Branch site-2)57, Yangcheong 3-gil, Ochang-eup, Cheongwon-gu,
Cheongju-si, Chungcheongbuk-do, Republic of Korea
(Branch site-3)940, Osan-ro, Osan-myeon, Gokseong-gun,
Jeollanam-do, Republic of Korea
(Branch site-4)Heungan-daero 35, Gunpo-si,
Gyeonggi-do, Republic of Korea
(Satellite facilities-1) 57, Yangcheong 3-gil, Ochang-eup,
Cheongwon-gun, Chungcheongbuk-do, Republic of Korea
(Satellite facilities-2) 22 Heungan-daero 27beon-gil, Gunpo-si,
Gyeonggi-do, Republic of Korea

Date of Initial Accreditation: April 16, 1994

Validity of Accreditation : January 04, 2022 ~ January 03, 2026

Scope of Accreditation : Attached Annex

Date of issue : March 30, 2023

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

Korea Laboratory Accreditation Scheme

Korea Laboratory Accreditation Scheme

No. KT005

Branch Site. 22 Heungan-daero 27beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea

03 Electric Test

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60060-1:2010	Electric cords, cables and circuits	High-voltage test techniques - Part 1: General definitions and test requirements	a.c. 24 kV or less	N
IEC 60060-2:2010	Electric cords, cables and circuits	High voltage test techniques - Part 2: Measuring systems	a.c. 24 kV or less	N
IEC 60092-350:2020	Electric cords, cables and circuits	Electrical installations in ships - Part 350: General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications [exception] 5.2.3.7 Spark test, 5.2.4 Partial discharge test, 7.7 High voltage sequence test, 8.17.2 Flame-spread test on bunched cables, 8.17.3 Smoke emission test, 8.17.7 Fire-resistance test	Rated voltage up to 1.8/3 kV	N
IEC 60092-353:2016	Electric cords, cables and circuits	Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV [exception] Table 4. Fire-retardant tests: IEC 60332-3-22, Table 6. Smoke emission test according to IEC 61034-2	Rated voltage up to 1.8/3 kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60092-354: 2020	Electric cords, cables and circuits	Electrical installations in ships - Part 354: Single-and three-core power cables with extruded solid insulation for rated voltages 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) [exception] Table 3 Voltage test, Voltage test on sheath, Insulation resistance test, Partial discharge test, High voltage sequence test, Insulation resistance measurement at maximum rated temperature, Increase in a.c. capacitance after immersion in water, High-voltage test for 4 h, Flame-spread tests:IEC 60332-3-22	Rated voltage 6 kV ~ 30 kV	N
IEC 60092-360: 2021	Electric cords, cables and circuits	Electrical installations in ships - Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables	Max. conductor temp. up to 95 °C	N
IEC 60092-376: 2017	Electric cords, cables and circuits	Electrical installations in ships - Part 376: Cables for control and instrumentation circuits 150/250 V (300 V) [exception] Table5-Tests applicable to all cables Fire-retard anttests: IEC60332-3-22 Table7-Additional test required for low smoke cables Smoke emission test for cables insilated and sheathed with halogen-free materials. When tested according to IEC61034-2 Table8-Additional tests required for resistant cables Test for fire resistance (limited circuit integrity)	Rated voltage 150/250 V(300 V)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60096-0-1:2017	Electric cords, cables and circuits	Radio frequency cables - part 0-1: Guide to the design of detail specification-Coaxial cables	frequency: 10 000 MHz or less	N
IEC 60227-1:2007	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
IEC 60227-2:2003	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N
IEC 60227-3:1997	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 3: Non-sheathed cables for fixed wiring	450/750 V or less	N
IEC 60227-4:1997	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 4: Sheathed cables for fixed wiring	450/750 V or less	N
IEC 60227-5:2011	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords)	450/750 V or less	N
IEC 60227-6:2001	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 6: Lift cables and cables for flexible connections	450/750 V or less	N
IEC 60227-7:2012	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 7: Flexible cables screened and unscreened with two or more conductors	450/750 V or less	N
IEC 60228:2004	Electric cords, cables and circuits	Conductors of insulated cables	2 500 mm ² or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60245-1:2008	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
IEC 60245-2:1998	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N
IEC 60245-3:2011	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 3: Heat resistant silicone insulated cables	450/750 V or less	N
IEC 60245-4:2011	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables	450/750 V or less	N
IEC 60245-5:2003	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 5: Lift cables	450/750 V or less	N
IEC 60245-6:2003	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 6: Arc welding electrode cables	450/750 V or less	N
IEC 60245-7:1997	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 7: Heat resistant ethylene-vinyl acetate rubber insulated cables	450/750 V or less	N
IEC 60245-8:2012	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 8: Cords for applications requiring high flexibility	450/750 V or less	N
IEC 60317-0-1:2019	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 0-1: General requirements - Enamelled round copper wire	nominal diameter: 5.0 mm or less	N
IEC 60317-0-2:2020	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 0-2: General requirements - Enamelled rectangular copper wire	nominal area: 88.74 mm ² or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60317-0-3:201 9	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 0-3: General requirements - Enamelled round aluminium wire	nominal diameter: 5.0 mm or less	N
IEC 60317-0-4:202 0	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 0-4: General requirements - Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire	nominal area: 88.74 mm ² or less	N
IEC 60317-0-6:202 0	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 0-6: General requirements - Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire	nominal diameter: 5.0 mm or less	N
IEC 60317-1:2010	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 1: Polyvinyl acetal enamelled round copper wire, class 105	temperature: 155 °C or less	N
IEC 60317-15:2010	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 15: Polyesterimide enamelled round aluminium wire, class 180	temperature: 200 °C or less	N
IEC 60317-17:2020	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 17: Polyvinyl acetal enamelled rectangular copper wire, class 105	temperature: 155 °C or less	N
IEC 60317-18:2020	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 18: Polyvinyl acetal enamelled rectangular copper wire, class 120	temperature: 155 °C or less	N
IEC 60317-2:2019	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 2: Solderable polyurethane enamelled round copper wire, class 130, with a bonding layer	temperature: 155 °C or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60317-22:2010	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 22: Polyester or polyesterimide enamelled round copper wire overcoated with polyamide, class 180	temperature: 200 °C or less	N
IEC 60317-3:2011	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 3: Polyester enamelled round copper wire, class 155	temperature: 175 °C or less	N
IEC 60317-4:2015	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 4: Solderable polyurethane enamelled round copper wire, class 130	temperature: 155 °C or less	N
IEC 60317-8:2010	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 8: Polyesterimide enamelled round copper wire, class 180	temperature: 200 °C or less	N
IEC 60332-1-1:2015	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-1: Test for vertical flame propagation for a single insulated wire or cable - Apparatus	height: (1 200 ± 250) mm width: (300 ± 25) mm inside depth: (450 ± 25) mm	N
IEC 60332-1-2:2015	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame	distance: (475 ± 5) mm angle: 45° ± 2°	N
IEC 60332-1-3:2015	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles	distance: (475 ± 5) mm angle: 45° ± 2°	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60502-1:2021	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1.2 kV) and 3 kV (Um = 3.6 kV)	3.6 kV or less	N
IEC 60502-2:2014	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) - Part 2: Cables for rated voltages from 6 kV (Um = 7.2 kV) up to 30 kV (Um = 36 kV) [exception] 16.3 Partial discharge test 16.4 Voltage test 16.5 Electrical test on oversheath of the cable 17.9 Voltage test for 4 h 18. Type tests, electrical 19.24 Water penetration test 20. Electrical tests after installation	36 kV or less	N
IEC 60684-2:2011	Electric cords, cables and circuits	Flexible insulating sleeving - Part 2: Methods of test	(590 ~ 610) °C	N
IEC 60728-1:2014	Electric cords, cables and circuits	Cable networks for television signals, sound signals and interactive services - Part 1: System performance of forward paths	(30 ~ 3 000) MHz	N
IEC 60754-1:2019	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	halogen acid: 5 mg/g or less	N
IEC 60754-2:2019	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	accuracy: ± 0.1 mg, pH: ± 0.02, conductivity: 10-2 μS/mm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-201:201 7	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 201: General tests - Measurement of insulation thickness	± 0.01 mm	N
IEC 60811-202: 2017	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 202: General tests - Measurement of thickness of non-metallic sheath	± 0.01 mm	N
IEC 60811-203: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 203: General tests - Measurement of overall dimensions	within or over 25 mm	N
IEC 60811-301: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 301: Electrical tests - Measurement of the permittivity at 23 ° C of filling compounds	(23.0 ± 2) ° C	N
IEC 60811-302: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 302: Electrical tests - Measurement of the d.c. resistivity at 23 ° C and 100 ° C of filling compounds	(23.0 ± 2) ° C, (100.0 ± 3) ° C	N
IEC 60811-401: 2017	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 401: Miscellaneous tests - Thermal ageing methods - Ageing in an air oven	Less than 250 ° C	N
IEC 60811-402: 2012	Electric cords, cables and circuits	Electric and optical fibre cables-Test methods for non-metallic materials-Part 402:Miscellaneous tests-Water absorption tests	Specimen thickness: (0.8~0.9) mm (1.0~1.2) mm (1.2~1.6) mm (1.6~2.0) mm more than 2.0 mm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-403: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 403: Miscellaneous tests - Ozone resistance test on cross-linked compounds	Ozone concentration 300×10^{-4} % or less	N
IEC 60811-404: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 404: Miscellaneous tests - Mineral oil immersion tests for sheaths	IRM 902	N
IEC 60811-405: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 405: Miscellaneous tests - Thermal stability test for PVC insulations and PVC sheaths	(50 ± 5) mg	N
IEC 60811-406: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 406: Miscellaneous tests - Resistance to stress cracking of polyethylene and polypropylene compounds	(50.0 ± 0.5) °C	N
IEC 60811-409: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 409: Miscellaneous tests - Loss of mass test for thermoplastic insulations and sheaths	An analytical balance with a sensitivity of 0.1 mg	N
IEC 60811-411: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 411: Miscellaneous tests - Low-temperature brittleness of filling compounds	(-10 ± 1) °C	N
IEC 60811-412: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 412: Miscellaneous tests - Thermal ageing methods - Ageing in an air bomb	Air pressure: (0.55 ± 0.02) MPa	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-501:2018	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds	Less than 5 kN	N
IEC 60811-502:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 502: Mechanical tests - Shrinkage test for insulations	± 0.01 mm	N
IEC 60811-503:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 503: Mechanical tests - Shrinkage test for sheaths	± 0.01 mm	N
IEC 60811-504:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 504: Mechanical tests - Bending tests at low temperature for insulation and sheaths	-40 °C ~ room temperature	N
IEC 60811-505:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 505: Mechanical tests - Elongation at low temperature for insulations and sheaths	-40 °C ~ room temperature	N
IEC 60811-506:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 506: Mechanical tests - Impact test at low temperature for insulations and sheaths	-40 °C ~ room temperature	N
IEC 60811-507:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 507: Mechanical tests - Hot set test for cross-linked materials	Test temperature: (200 \pm 3) °C, Tensile strength: (20 \pm 0.5) N/cm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-508:201 7	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 508: Mechanical tests - Pressure test at high temperature for insulation and sheaths	Width 20 mm or less	N
IEC 60811-509: 2017	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 509: Mechanical tests - Test for resistance of insulations and sheaths to cracking (heat shock test)	Test temperature: (150 ± 3) °C, Test duration: 1 h	N
IEC 60811-510: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 510: Mechanical tests - Methods specific to polyethylene and polypropylene compounds - Wrapping test after thermal ageing in air	Test temperature: (100 ± 2) °C, Test duration: 14days	N
IEC 60811-511: 2017	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 511: Mechanical tests - Measurement of the melt flow index of polyethylene compounds	(190 ± 0.5) °C	N
IEC 60811-601: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 601: Physical tests - Measurement of the drop point of filling compounds	(-5 ~ 300) °C	N
IEC 60811-602: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 602: Physical tests - Separation of oil in filling compounds	(50 ± 2) °C	N
IEC 60811-603: 2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 603: Physical tests - Measurement of total acid number of filling compounds	50 ml burette graduated in 0.1ml	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-604:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 604: Physical tests - Measurement of absence of corrosive components in filling compounds	$(80 \pm 2) ^\circ\text{C}$	N
IEC 60811-605:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 605: Physical tests - Measurement of carbon black and/or mineral filler in polyethylene compounds	$\pm 0.1 \text{ mg}$	N
IEC 60811-606:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 606: Physical tests - Methods for determining the density	$(23.0 \pm 0.5) ^\circ\text{C}$	N
IEC 60811-607:2012	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 607: Physical tests - Test for the assessment of carbon black dispersion in polyethylene and polypropylene	Less than 3 % carbon black content	N
IEC 62821-1:2015	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
IEC 62821-2:2015	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N
IEC 62821-3:2015	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables (cords) (exception) Annex A Table A.1 8.2 Smoke emission Test	450/750 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KC 10028:2016	Electric cords, cables and circuits	Low voltage rubber insulated cables of rated voltages up to and including 450/750 V - Multicore cables with crosslinked silicone rubber insulation	450/750 V or less	N
KC 60227-1:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
KC 60227-2:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N
KC 60227-3:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 3: Non-sheathed cables for fixed wiring	450/750 V or less	N
KC 60227-4:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 4: Sheathed cables for fixed wiring	450/750 V or less	N
KC 60227-5:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords)	450/750 V or less	N
KC 60227-6:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 6: Lift cables and cables for flexible connections	450/750 V or less	N
KC 60227-7:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 7: Flexible cables screened and unscreened with two or more conductors	450/750 V or less	N
KC 60228:2015	Electric cords, cables and circuits	Conductors of insulated cables	2 500 mm ² or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60245-1:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
KC 60245-2:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N
KC 60245-3:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 3: Heat resistant silicone insulated cables	450/750 V or less	N
KC 60245-4:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables	450/750 V or less	N
KC 60245-5:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 5: Lift cables	450/750 V or less	N
KC 60245-6:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 6: Arc welding electrode cables	450/750 V or less	N
KC 60245-7:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 7: Heat resistant ethylene-vinyl acetate rubber insulated cables	450/750 V or less	N
KC 60245-8:2015	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 8: Cords for applications requiring high flexibility	450/750 V or less	N
KC 60332-1:2015	Electric cords, cables and circuits	Tests on electric cables under fire conditions - Part 1: Test on a single vertical insulated wire or cable	height: (1 200 ± 25) mm, width: (300 ± 25) mm, depth: (450 ± 25) mm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60502-1:2015	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1.2 kV) and 3 kV (Um = 3.6 kV)	3.6 kV or less	N
KC 60754-1:2015	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	halogen acid: 5 mg/g or less	N
KC 60754-2:2015	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	accuracy: ± 0.1 mg, pH: ± 0.02 conductivity: 10 ⁻² μS/mm	N
KC 60799:2015	Electric cords, cables and circuits	Electrical accessories - Cord sets and interconnection cord sets	16 A or less	N
KC 60811-1-1:2015	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables and optical cables - Part 1-1: Methods for general application - Measurement of thickness and overall dimensions - Tests for determining the mechanical properties	0.01 mm or less	N
KC 60811-1-2:2015	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables - Part 1: Methods for general application - Section Two: Thermal ageing methods	air pressure: (0.55 ± 0.02) MPa, oxygen pressure: (2.1 ± 0.07) MPa	N
KC 60811-1-4:2015	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables - Part 1: Methods for general application - Section Four: Tests at low temperature	-40 °C ~ room temperature	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60811-2-1:201 5	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric and optical cables - Part 2-1: Methods specific to elastomeric compounds - Ozone resistance, hot set and mineral oil immersion tests	Ozone concentration 300×10^{-4} % or less	N
KC 60811-3-1:201 5	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables - Part 3: Methods specific to PVC compounds - Section One: Pressure test at high temperature - Tests for resistance to cracking	mandrel diameter: (2 ~ 40) mm	N
KC 60811-3-2:201 5	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric and optical cables - Part 3-2: Methods specific to PVC compounds - Loss of mass test, thermal stability test	± 0.1 mg	N
KC 60811-4-1:201 5	Electric cords, cables and circuits	Insulating and sheathing materials of electric and optical cables - Common test methods - Part 4-1: Methods specific to polyethylene and polypropylene compounds - Resistance to environmental stress cracking - Measurement of the melt flow index - Carbon black and/or mineral filler content measurement in polyethylene by direct combustion - Measurement of carbon black content by thermogravimetric analysis (TGA) - Assessment of carbon black dispersion in polyethylene using a microscope	Temperature: (165 ~ 170) °C, Power: (50 ~ 200) kN	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60811-5-1:2015	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric and optical cables - Part 5-1: Methods specific to filling compounds - Drop point - Separation of oil - Lower temperature brittleness - Total acid number-Absence of corrosive components - Permittivity at 23 °C - DC resistivity at 23 °C and 100 °C	temperature: (23 ± 2) °C (100 ± 3) °C	N
K 60885-1:2007	Electric cords, cables and circuits	Electrical test methods for electric cables - Part 1: Electrical tests for cables, cords and wires for voltages up to and including 450/750 V	450/750 V or less	N
KC 62821-1:2016	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
KC 62821-2:2016	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N
KC 62821-3:2016	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables(cords) [exception]Annex A Table A.1 8.2	450/750 V or less	N
KS C 3101:2003	Electric cords, cables and circuits	Annealed copper wires for electrical purposes	conductor diameter: 12.0 mm or less	N
KS C 3102:1998	Electric cords, cables and circuits	Hard-drawn copper wires for electrical purposes	conductor diameter: 12.0 mm or less	N
KS C 3103:2003	Electric cords, cables and circuits	Annealed copper stranded wires for electrical purposes	nominal area: 2 000 mm ² or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 3104:2019	Electric cords, cables and circuits	Hard-drawn copper stranded conductors	nominal area: 500 mm ² or less	N
KS C 3105:2014	Electric cords, cables and circuits	Rectangular copper wires for electrical purpose and double cotton covered rectangular copper wires	width: 9.5 mm, thickness: 10.0 mm or less	N
KS C 3106:2021	Electric cords, cables and circuits	Annealed copper wires for winding of electric apparatus	conductor diameter: 3.2 mm or less	N
KS C 3107:2003	Electric cords, cables and circuits	Enamelled winding wires	conductor diameter: 3.2 mm or less	N
KS C 3111:2019	Electric cords, cables and circuits	Hard-drawn aluminium wires for electric purposes	finish outside diameter: 5.0 mm or less	N
KS C 3112:2003	Electric cords, cables and circuits	Hard-drawn aluminium stranded conductors	nominal area: 1 500 mm ² or less	N
KS C 3113:2019	Electric cords, cables and circuits	Aluminium stranded conductors steel reinforced	nominal area: 610 mm ² or less	N
KS C 3115:1980	Electric cords, cables and circuits	Tin coated piano wire for armature binding	line diameter: 2.60 mm or less	N
KS C 3117:2014	Electric cords, cables and circuits	Deadend clamp and bolt type connector for aluminium	ACSR: 160 mm ² or less	N
KS C 3120:2020	Electric cords, cables and circuits	Tin coated annealed copper wires and strand copper wire	conductor diameter: 12.0 mm or less	N
KS C 3123:1974	Electric cords, cables and circuits	Glass-fiber-covered round copper wires	conductor diameter: 3.20 mm or less	N
KS C 3125:1974	Electric cords, cables and circuits	Double glass-fiber-covered rectangular copper wires	conductor thickness 4.5 mm or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 3133:1979	Electric cords, cables and circuits	Copper wire rods for electrical purposes	conductor diameter 25.0 mm or less	N
KS C 3134:2008	Electric cords, cables and circuits	Contact conductors with insulating covers	d.c. 750 V or less, a.c. 600 V or less, rated current 2 000 A or less	N
KS C 3138:2020	Electric cords, cables and circuits	ACSR outdoor cross-linked polyethylene insulated wires for 6.6 kV	nominal area: 95 mm ² or less	N
KS C 3139:2020	Electric cords, cables and circuits	HAI outdoor cross-linked polyethylene insulated wires for 6.6 kV	nominal area: 150 mm ² or less	N
KS C 3306:2002	Electric cords, cables and circuits	Figure 8 type drop wires	conductor diameter: 1.0 mm, 1.2 mm	N
KS C 3307:1993	Electric cords, cables and circuits	Flat type drop wires	conductor diameter: 1.20 mm	N
KS C 3308:1988	Electric cords, cables and circuits	Insulated wires for neon tube	15 kV or less	N
KS C 3311:2012	Electric cords, cables and circuits	Low-voltage cables for automobile	nominal area: 100 mm ² or less	N
KS C 3312:1992	Electric cords, cables and circuits	Fiber or paper covered copper winding wires	conductor diameter: 6.0 mm or less	N
KS C 3313:2020	Electric cords, cables and circuits	Outdoor weather proof polyvinyl chloride insulated wires (OW)	600 V or less	N
KS C 3315:2015	Electric cords, cables and circuits	Polyvinyl chloride insulated drop service wires(DV)	600 V or less	N
KS C 3338:2005	Electric cords, cables and circuits	Polyester nylon enamelled copper wires	conductor diameter: 3.2 mm or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 3339:2002	Electric cords, cables and circuits	CATV aluminium pipe coaxial cables	a.c. 65 V, current 15 A	N
KS C 3340:2002	Electric cords, cables and circuits	PVC INDOOR TELEPHONE WIRES	conductor diameter: 0.8 mm	N
KS C 3341:2020	Electric cords, cables and circuits	Halogen free flame retardant poly-olefin insulation wire	450/750 V or less	N
KS C 3342:2021	Electric cords, cables and circuits	Local area network cable	frequency: 250 MHz or less	N
KS C 3401:1990	Electric cords, cables and circuits	1 000 V Grade insulated wires for fluorescent lamps	1 000 V	N
KS C 3403:1990	Electric cords, cables and circuits	High-voltage resistance cables for automobile	resistance: 36 k Ω or less	N
KS C 3603:2016	Electric cords, cables and circuits	Polyethylene insulated polyvinyl chloride sheathed pair cable for telephone	core wire diameter: 0.9 mm or less	N
KS C 3604:2002	Electric cords, cables and circuits	L.F Cables and wires with P.V.C insulation and P.V.C sheath for telephone	core 112 or less	N
KS C 3606:2003	Electric cords, cables and circuits	Paper-insulated-lead sheathed star cable for telephone	nominal pair: 2 400 or less	N
KS C 3608:1981	Electric cords, cables and circuits	Paper-insulated-lead sheathed pair cable for telephone	2 121 pair or less	N
KS C 3610:2016	Electric cords, cables and circuits	Radio-frequency coaxial cables	50 Ω and 75 Ω	N
KS C 3612:2008	Electric cords, cables and circuits	High tension cables for X-ray apparatus	voltage: 150 kV or less	N
KS C 3617:2016	Electric cords, cables and circuits	Coaxial cables for television receivers	frequency: 1800 MHz or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 3618:1983	Electric cords, cables and circuits	Polyethylene insulated metal sheathed cables for telephone	core wire diameter: 0.9 mm or less	N
KS C 3804:2002	Electric cords, cables and circuits	Low voltage pin type insulators	voltage: 20 kV, adhesion: 35 mg/cm or more	N
KS C 3805:1965	Electric cords, cables and circuits	Low-voltage insulator knobs	length: 75 mm or less	N
KS C 3806:2002	Electric cords, cables and circuits	Low voltage shackle type insulators	withstand voltage: 15 000 V, tensile load: 9.8 kN, adhesion: 45 mg/cm or more	N
KS C 3807:1980	Electric cords, cables and circuits	High-voltage porcelain tubes	voltage: 40 kV, 25 kV	N
KS C 3809:2001	Electric cords, cables and circuits	6 600 V pin type insulators	breakdown voltage: 90 kV or more	N
KS C 3814:1976	Electric cords, cables and circuits	Neon insulators	withstand voltage: 30 kV or less flash over voltage: 35 kV or less	N
KS C 3816:1980	Electric cords, cables and circuits	Strain type insulators	withstand voltage in water spray: 11 kV or less with stand voltage in oil: 60 kV or less	N
KS C 3817:2003	Electric cords, cables and circuits	Clevis type porcelain long rod insulators	voltage: 385 kV or less, breakdown load: 117 600 N or more	N
KS C 3819:2003	Electric cords, cables and circuits	Indoor post insulators	3.3 kV ~ 33 kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 3821:2003	Electric cords, cables and circuits	180 mm clevis type suspension insulators	withstand voltage: 75 kV, breakdown load: 73 500 N or more	N
KS C 3827:2003	Electric cords, cables and circuits	Normal type and anti-pollution type suspension insulators	breakdown voltage: 140 kV or more, breakdown load: 330 kN or more	N
KS C 3829:1990	Electric cords, cables and circuits	Insulated wires for cubicle type unit substation for 6.6 kV receiving	nominal voltage: 6.6 kV	N
KS C 3831:2003	Electric cords, cables and circuits	Line post insulators	22.9 kV or less	N
KS C 3832:2003	Electric cords, cables and circuits	Station post insulators	nominal voltage: 6.6 kV	N
KS C 3833:2006	Electric cords, cables and circuits	6.6 kV strain insulators	withstand voltage: 100 kV or more, breakdown load: 39 200 N or more	N
KS C 3834:2006	Electric cords, cables and circuits	Pin type insulators for feeder	withstand voltage: 100 kV or more, breakdown load: 7 350 N or more	N
KS C 3836:2014	Electric cords, cables and circuits	Ball and socket type suspension insulator	withstand voltage: 130 kV or more, breakdown load: 68 800 N or more	N
KS C 4610:2011	Electric cords, cables and circuits	Lightning arresters for 6.6 kV cubicle type unit substation	withstand voltage: 60 kV or more	N
KS C 8110:1992	Electric cords, cables and circuits	Photoelectric controls for public lighting	rated voltage: 110 V and 220 V	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60092-350:200 1	Electric cords, cables and circuits	Electrical installations in ships - Part 350: General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications[except] 12.14 Fire-retardant test	Rated voltage up to 8.7/15kV	N
KS C IEC 60092-353:201 6	Electric cords, cables and circuits	Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV (except) Table 5 - Fire-retardant tests(KS C IEC 60332-3-22), Table 7 - Additional test required for low smoke cables(KS C IEC 61034-2), Table 8 - Test for fire resistance (KS C IEC 60331-21), Table 9 - Additional tests required for specific performances(KS V IEC 60092-360)	Rated voltage up to 1.8/3 kV	N
KS C IEC 60092-354:199 4	Electric cords, cables and circuits	Electrical installations in ships - Part 354: Single- and three-core power cables with extruded solid insulation for rated voltages 6 kV, 10 kV and 15 kV[except]18.3.3, 18.3.5, 18.3.6, 18.3.7, 18.3.8	Rated voltage 3.6/6(7.2) kV, 6/10(12) kV, 8.7/15(17.5) kV	N
KS C IEC 60092-376:198 3	Electric cords, cables and circuits	Electrical installations in ships - Part 376: Shipboard multicore cables for control circuits	a.c. 250 V or d.c 250 V	N
KS C IEC 60227-1:2007	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
KS C IEC 60227-2:2003	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60227-3:1997	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 3: Non-sheathed cables for fixed wiring	450/750 V or less	N
KS C IEC 60227-4:1997	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 4: Sheathed cables for fixed wiring	450/750 V or less	N
KS C IEC 60227-5:2011	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords)	450/750 V or less	N
KS C IEC 60227-6:2001	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 6: Lift cables and cables for flexible connections	450/750 V or less	N
KS C IEC 60227-7:2012	Electric cords, cables and circuits	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 7: Flexible cables screened and unscreened with two or more conductors	450/750 V or less	N
KS C IEC 60228:2004	Electric cords, cables and circuits	Conductors of insulated cables	2 500 mm ² or less	N
KS C IEC 60245-1:2008	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1: General requirements	450/750 V or less	N
KS C IEC 60245-2:1998	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N
KS C IEC 60245-3:1994	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 3: Heat resistant silicone insulated cables	450/750 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60245-4:2011	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables	450/750 V or less	N
KS C IEC 60245-5:1994	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 5: Lift cables	450/750 V or less	N
KS C IEC 60245-6:2003	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 6: Arc welding electrode cables	450/750 V or less	N
KS C IEC 60245-7:1997	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 7: Heat resistant ethylene-vinyl acetate rubber insulated cables	450/750 V or less	N
KS C IEC 60245-8:2012	Electric cords, cables and circuits	Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 8: Cords for applications requiring high flexibility	450/750 V or less	N
KS C IEC 60317-0-1:201 5R	Electric cords, cables and circuits	Specifications for particular types of winding wires - Part 0-1: General requirements - Enamelled round copper wire	nominal diameter: 5.0 mm or less	N
KS C IEC 60317-8:2000	Electric cords, cables and circuits	Specifications for Particular types of winding wires - Part 8: Polyesterimide enamelled round copper wire, class 180	temperature: 200 °C	N
KS C IEC 60332-1-1:201 5	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-1: Test for vertical flame propagation for a single insulated wire or cable - Apparatus	height: (1 200 ± 250) mm, width: (300 ± 25) mm, depth: (450 ± 25) mm	N
KS C IEC 60332-1-2:201 5	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame	length (475 ± 5) mm angle 45° ± 2°	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60332-1-3:200 4	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles	length (475 ± 5) mm angle 45° ± 2	N
KS C IEC 60502-1:2009	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1.2 kV) and 3 kV (Um = 3.6 kV)	3.6 kV or less	N
KS C IEC 60502-2:2014	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) - Part 2: Cables for rated voltages from 6 kV (Um = 7.2 kV) up to 30 kV (Um = 36 kV) [exception] 16.3 Partial discharge test 16.4 Voltage test 16.5 Electrical test on oversheath of the cable 17.9 Voltage test for 4 h 18. Type tests, electrical 19.24 Water penetration test 20. Electrical tests after installation	36 kV or less	N
KS C IEC 60684-2:2011	Electric cords, cables and circuits	Flexible insulating sleeving - Part 2: Methods of test	(590 ~ 610) °C	N
KS C IEC 60754-1:2011	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	halogen acid: 5 mg/g or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60754-2:2011	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	accuracy: ± 0.1 mg, pH: ±0.02, conductivity: 10-2 μ S/mm	N
KS C IEC 60799:1998	Electric cords, cables and circuits	Electrical accessories - Cord sets and interconnection cord sets	16 A or less	N
KS C IEC 60811-1-1:199 3	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables and optical cables - Part 1-1: Methods for general application - Measurement of thickness and overall dimensions - Tests for determining the mechanical properties	0.01 mm	N
KS C IEC 60811-1-2:198 5	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables - Part 1: Methods for general application - Section Two: Thermal ageing methods	Air pressure: (0.55 ± 0.02) MPa, Oxygen pressure: (2.1 ± 0.07) MPa	N
KS C IEC 60811-1-3:200 1	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric and optical cables-Part 1-3:General application-Methods for determining the density-Water absorption tests-Shrinkage test	Weight: 0.1 mg, Voltage: d.c. 2.5 kV a.c. 4 kV	N
KS C IEC 60811-1-4:198 5	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables - Part 1:Methods for general application - Section Four: Tests at low temperature	-40 °C ~ ordinary temperature	N
KS C IEC 60811-2-1:200 1	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric and optical cables - Part 2-1: Methods specific to elastomeric compounds - Ozone resistance, hot set and mineral oil immersion tests	Ozone concentration 300 × 10 ⁻⁴ % or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60811-3-1:198 5	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric cables - Part 3: Methods specific to PVC compounds - Section One: Pressure test at high temperature - Tests for resistance to cracking	Mandrel diameter: (2 ~ 40) mm	N
KS C IEC 60811-3-2:198 5	Electric cords, cables and circuits	Common test methods for insulating and sheathing materials of electric and optical cables - Part 3-2: Methods specific to PVC compounds - Loss of mass test, thermal stability test	± 0.1 mg	N
KS C IEC 60811-4-1:200 4	Electric cords, cables and circuits	Insulating and sheathing materials of electric and optical cables - Common test methods - Part 4-1: Methods specific to polyethylene and polypropylene compounds - Resistance to environmental stress cracking - Measurement of the melt flow index - Carbon black and/or mineral filler content measurement in polyethylene by direct combustion - Measurement of carbon black content by thermogravimetric analysis (TGA) - Assessment of carbon black dispersion in polyethylene using a microscope	temperature: (165 ~ 170) °C, Power: (50 ~ 200) kN	N
KS C IEC 60811-5-1:200 4	Electric cords, cables and circuits	Insulating and sheathing materials of electric and optical cables - Common test methods - Part 5-1: Methods specific to filling compounds - Drop point - Separation of oil - Lower temperature brittleness - Total acid number - Absence of corrosive components - Permittivity at 23 °C - DC resistivity at 23 °C and 100 °C	temperature: (23 \pm 2) °C, (100 \pm 3) °C	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60811-201:201 7	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 201: General tests - Measurement of insulation thickness	± 0.01 mm	N
KS C IEC 60811-202:201 7	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 202: General tests - Measurement of thickness of non-metallic sheath	± 0.01 mm	N
KS C IEC 60811-203:201 4	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 203: General tests - Measurement of overall dimensions	within or over 25 mm	N
KS C IEC 60811-401:201 7	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 401: Miscellaneous tests - Thermal ageing methods - Ageing in an air oven	Less than 2 % of the volume of the oven	N
KS C IEC 60811-403:201 4	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 403: Miscellaneous tests - Ozone resistance test on cross - linked compounds	Ozone concentration 300×10^{-4} % or less	N
KS C IEC 60811-404:201 4	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 404: Miscellaneous tests - Mineral oil immersion tests for sheaths	IRM 902	N
KS C IEC 60811-405:201 2	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 405: Miscellaneous tests - Thermal stability test for PVC insulations and PVC sheaths	(50 ± 5) mg	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60811-409:201 5	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 409: Miscellaneous tests - Loss of mass test for thermoplastic insulations and sheaths	± 0.1 mg	N
KS C IEC 60811-412:201 2	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 412: Miscellaneous tests - Thermal ageing methods - Ageing in an air bomb	Air pressure: (0.55 ± 0.02) MPa	N
KS C IEC 60811-501:201 8	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds	5 kN or less	N
KS C IEC 60811-504:201 4	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 504: Mechanical tests - Bending tests at low temperature for insulation and sheaths	-40 °C ~ room temperature	N
KS C IEC 60811-505:201 4	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 505: Mechanical tests - Elongation at low temperature for insulations and sheaths	-40 °C ~ room temperature	N
KS C IEC 60811-506:201 5	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 506: Mechanical tests - Impact test at low temperature for insulations and sheaths	-40 °C ~ room temperature	N
KS C IEC 60811-507:201 5	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 507: Mechanical tests - Hot set test for cross-linked materials	Test temperature: (200 ± 3) °C, or (250 ± 3) °C Tensile strength: (20 ± 0.5) N/cm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60811-508:201 7	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 508: Mechanical tests - Pressure test at high temperature for insulation and sheaths	width : 20 mm or less	N
KS C IEC 60811-509:201 7	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 509: Mechanical tests - Test for resistance of insulations and sheaths to cracking (heat shock test)	Test temperature: (150 ± 3) °C, Test duration: 1 h	N
KS C IEC 60811-510:201 2	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 510: Mechanical tests - Methods specific to polyethylene and polypropylene compounds - Wrapping test after thermal ageing in air	Test temperature: (100 ± 2) °C, Test duration: 14days	N
KS C IEC 60811-606:201 5	Electric cords, cables and circuits	Electric and optical fibre cables - Test methods for non-metallic materials - Part 606: Physical tests - Methods for determining the density	(23.0 ± 0.1) °C	N
KS C IEC 62821-1:2013	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V-Part 1: General requirements	450/750 V or less	N
KS C IEC 62821-2:2013	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 2: Test methods	450/750 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 62821-3:2013	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables(cords) [exception] Annex A Table A.1 8.2 Smoke emission Test	450/750 V or less	N
ANSI/NEMAW C 70:2009(ICEA S-95-658:2009)	Electric cords, cables and circuits	Power Cables Rated 2 000 Volts or Less for the Distribbution of Electrical Energy [except] 7.3 Tray cable flame test, 7.6 Smoke generation test	Rated voltage up to 2 kV	N
ANSI/NEMAW C 71:2014(ICEA S-96-659:2014)	Electric cords, cables and circuits	Nonshielded Cables Rated 2001 - 5 000 V for Use in the Distribution of Electric Energy [except] 8.5 Tray cable flame test, 8.7 Smoke generation	Rated voltag eup to 5 kV	N
ES-5340-0015: 2014	Electric cords, cables and circuits	Binding wires for copper conductors	(2.0 ~ 5.0) mm	N
ES-5340-0016: 2011	Electric cords, cables and circuits	Binding Wires for Aluminium Conductors	(4.0 ~ 5.0) mm	N
ES-5340-0017: 2009	Electric cords, cables and circuits	Binding Wires for Insulated Wires	(1.6 ~ 2.0) mm	N
ES-6145-0001: 2009	Electric cords, cables and circuits	Galvanized Steel Wire Strands	(2.0 ~ 3.5) mm	N
ES-6145-0002: 2014	Electric cords, cables and circuits	Copper Wires for Electrical Purpose	(2.0 ~ 5.0) mm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0005: 2019	Electric cords, cables and circuits	Aluminium Stranded Conductors Steel Reinforced [except] 4.3.1 table 4 Chemical composition, 4.3.3 Block passing test, 4.3.4 Torsion test	(32 ~ 520) mm ²	N
ES-6145-0006: 2019	Electric cords, cables and circuits	ACSR/AW-OC for 22.9 kV-Y [except] 4.3.3.(2) Spark test	(32 ~ 240) mm ²	N
ES-6145-0007: 2009	Electric cords, cables and circuits	ACSR Outdoor Cross-linked Polyethylene Insulated Wires for 6.6 kV [except] 5. table 2 Spark test	(32 ~ 95) mm ²	N
ES-6145-0012: 2019	Electric cords, cables and circuits	Concentric - Lay-Stranded Aluminium Clad Steel[except] table 4 Salt spray, Block passing test, Torsion test	(55 ~ 200) mm ²	N
ES-6145-0013: 2014	Electric cords, cables and circuits	Out Door Weather Proof Polyvinyl Chloride Insulated Wires	(2.0 ~ 3.2) mm	N
ES-6145-0014: 2014	Electric cords, cables and circuits	Polyvinyl Chloride Insulated Drop Wires [except] 3.3 table 2 Fire-retardant test	(1.6 ~ 3.2) mm	N
ES-6145-0015: 2014	Electric cords, cables and circuits	450/750 V Grade Single-core Polyvinyl Chloride Insulated Wire for general purposes	(1.5 ~ 120) mm ²	N
ES-6145-0017: 2012	Electric cords, cables and circuits	22.9 kV and 6.6 kV Drop Wires for pole Transformers	5.0 mm, 5.5 mm ²	N
ES-6145-0018: 2013	Electric cords, cables and circuits	Polyvinyl Chloride Insulated and Sheathed Control Cable [except] 5.2.5.(2)(b) Flame-spread test on bunched cables	(1.5 ~ 150) mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0019: 2020	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Crosslinked Polyethylene Insulated Halogen free Polyolefin Jacketed Water-proof Power Cables (FR CNCO-W) 8.1 Visual Inspection, 8.2 Construction test, 8.3 Electrical Characteristic Test, (8.3.1 Conductor Resistance, 8.3.2 Insulation Resistance) 8.4 Physical Characteristic Test (8.4.2 Tensile Strength and Elongation Test, 8.4.3 Hot Creep Test, 8.4.4 Heat deformation, 8.4.5 Cold Resistance Test, 8.4.7 Oil Resistance Test, 8.4.8 Oxygen Index, 8.4.9 Determination of the halogen acid gas content, 8.4.10 Determination of acidity (bypH measurement) and conductivity, 8.4.12 Insulation Shield Removability Test, 8.4.13 Physical Tests for Semi-conducting Material Intended for Extrusion, 8.4.14 Insulation, Contaminant, Void, Protrusion of Semi-conducting Screens, 8.4.15 Internal Irregularity Test of Conductor Shield, 8.4.16 Degree of Cross-linking, 8.4.17 Shrink back, 8.4.18 Ionic Impurities of Semi-conducting screens, 8.4.19 Volume Resistivity of Semi-conducting screens) 8.5 High Voltage Time Test (HVTT) (8.5.2.5 Resistance Stability Test, 8.5.3.4 Observation of Trees)	Cross-sectional Area: 60 mm ² , 200 mm ² , 325 mm ² , 600 mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0020: 2019	Electric cords, cables and circuits	Concentric-Lay-Stranded Aluminum Conductors Aluminum-Clad Steel Reinforced [except] Table 5 Block passing test, Torsion test	(32 ~ 160) mm ²	N
ES-6145-0021: 2019	Electric cords, cables and circuits	ACSR / AW - TR / OC [except] 5.3.17 AC breakdown voltage test, 5.3.3(2) Spark test	(58 ~ 240) mm ²	N
ES-6145-0022: 2014	Electric cords, cables and circuits	OC-W Cable [except] 5.1.4 Deposition test, 5.1.5 Corrosion resistance test, 5.1.14 AC breakdown voltage test	(38 ~ 150) mm ²	N
ES-6145-0024: 2019	Electric cords, cables and circuits	TACSR:Thermal-resistant Aluminum-alloy Conductors Steel Reinforced [except] Table 5 Chemical composition, Block passing test, Torsion test	(240 ~ 480) mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0025: 2020	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Water Tree Retardant XLPE Insulated Extruded-to-Fill Polyethylene Jacketed Water-proof Power Cables (TR CNCE-W) 7.1 Visual Inspection 7.2 Construction test 7.3 Electrical Characteristic Test (Conduct or Resistance, Insulation Resistance) 7.4 Physical Characteristic Test (Compound Dropping Test, Insulation and Semi-conducting Screen layers Test, Volume Resistivity of Semi-conducting Screens, Tensile Strength and Elongation Test, Physical and Aging Tests, Insulation Shield Removability Test, Anti-environmental Tests, DSC, Ionic Impurities of Semi-conducting screens) 7.5 High Voltage Time Test (HVTT) and Accelerated Water Treeing Test (AWTT) (Resistance Stability Test, Observation of Trees	Cross-sectional Area: 60 mm ² , 200 mm ² , 325 mm ² , 600 mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0026: 2020	Electric cords, cables and circuits	<p>22.9 kV Concentric Neutral Type Water Tree Retardant XLPE Insulated Extruded - to-Fill Polyethylene Jacketed Water-proof Power Aluminium Cables (TRCNCE-W/AL)</p> <p>7.1 Visual Inspection 7.2 Construction test 7.3 Electrical Characteristic Test (Conductor Resistance, Insulation Resistance) 7.4 Physical Characteristic Test (Compound Dropping Test, Insulation and Semi-conducting Screen layers Test, Volume Resistivity of Semi-conducting Screens, Tensile Strength and Elongation Test, Physical and Aging Tests, Insulation Shield Removability Test, Anti-environmental Tests, DSC, Ionic Impurities of Semi-conducting screens) 7.5 High Voltage Time Test (HVTT) and Accelerated Water Treeing Test (AWTT) (Resistance Stability Test, Observation of Trees)</p>	Cross-sectional Area: 95 mm ² , 240 mm ² , 400 mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0028: 2020	Electric cords, cables and circuits	Testing Methods for 22.9 kV Power Cables 3.1 Visual inspection 3.2 Construction test 3.3.1 Conductor resistance, insulation resistance, capacitance 3.4.2 Insulation and semi - conducting screens test, 3.4.3 Volume resistivity of semi-conducting screens, 3.4.4 Tensile strength and elongation test, 3.4.5 Physical aging test, 3.4.6 Insulation shield removability test, 3.4.7 Environmental resistance test, 3.4.8 Characteristic test of sheath, 3.4.9 Ionic impurities of semi - conducting screens 3.5.1.(6) Resistance stability test	cross section area(mm ²) 60, 200, 325, 600 (Cu) 95, 240, 400 (Al)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0034: 2019	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Water Tree Retardant XLPE Insulated Halogen free Polyolefin Jacketed Water-proof Power Aluminium Cables (FRCNCO-W/AL) 7.1 Visual Inspection 7.2 Construction test 7.3 Electrical Characteristic Test (Conduct or Resistance, Insulation Resistance) 7.4 Physical Characteristic Test (Compound Dropping Test, Insulation and Semi-conducting Screen layers Test, Volume Resistivity of Semi-conducting Screens, Tensile Strength and Elongation Test, Physical and Aging Tests, Insulation Shield Removability Test, Anti-environmental Tests, DSC, Ionic Impurities of Semi-conducting screens) 7.5 High Voltage Time Test (HVTT) and Accelerated Water Treeing Test(AWTT) (Resistance Stability Test, Observation of Trees)	Cross-sectional Area: 95mm ² ,240mm ² , 400mm ²	N
GS-6145-0028 :2003	Electric cords, cables and circuits	Aerial Bundled Cable of Low Voltage [except] 7.1 table 7.4-2 Spark test	(35 ~ 150) mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
GS-6145-0063 :2007	Electric cords, cables and circuits	22.9 kV FR - CO / W(Water-proof type power cable)5.1 Test Method(A. Visual Inspection, B. Construction test, C. Insulation Resistance, F. Conductor Resistance, K. Tensile Strength and Elongation Test, L. Heat deformation, M. Cold Resistance Test, O. Oxygen Index, P. Determination of acidity(by pH measurement) and conductivity, Q. Determination of the halogen acid gas content, S. Oil Resistance Test, V. Contaminant and Void)	Cross-sectional Area: 600 mm ²	N
GS-6145-0072 :2013	Electric cords, cables and circuits	High-tension Thermal-resistant Aluminum Stranded Conductors Aluminum-Clad Steel Reinforced [except] 4.3.11 Block passing test, 4.3.12 Torsion test	(240 ~ 480) mm ²	N
GS-6145-0076 :2012	Electric cords, cables and circuits	0.6/1 kV XLPE Insulated PVC Jacketed Water-proof Aluminium Power Cables	(25 ~ 300) mm ²	N
GS-6145-0078 :2010	Electric cords, cables and circuits	Aerial Spacer Cable for 22.9 kV [except] 7.4.2 Spark	(35 ~ 240) mm ²	N
GS-6145-0080 :2019	Electric cords, cables and circuits	ACSR/AW polyvinyl chloride insulated outdoor weather-proof wires [except] 5.3.3.(2) Spark test	(35 ~ 185) mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
GS-6145-0097 :2018	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Eco-friendly Polypropylene Insulated Extruded-to-Fill Polyethylene Jacketed Water-proof Power Aluminium Cables 7.1 Visual inspection, 7.2 Construction test, 7.3 Electrical characteristic test, 7.4.2 Insulation and semi-conducting screens test, 7.4.3 Volume resistivity of semi-conducting screens, 7.4.4 Tensile strength and elongation test, 7.4.5 Physical aging test, 7.4.6 Insulation shield removability test, 7.4.7 Environmental resistance test, 7.4.8 Characteristic test of sheath, 7.4.9 Ionic impurities of semi-conducting screens, 7.4.10 Water absorption test, 7.4.11 Differential scanning calorimetry, 7.5.1.1.(5) Resistance stability test, 7.5.2.1.(5) Resistance stability test	cross section area(mm ²) 95, 240, 400	N
IEC 62893-1:2020	Electric cords, cables and circuits	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 1: General requirements	0.6/1 kV AC or less 1 500 V DC or less	N
IEC 62893-2:2017	Electric cords, cables and circuits	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 2: Test methods	0.6/1 kV AC or less 1 500 V DC or less	N
IEC 62893-3:2017	Electric cords, cables and circuits	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 3: Cables for AC charging according to modes 1, 2 and 3 of IEC 61851-1 of rated voltages up to and including 450/750 V	450/750 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62893-4-1:2020	Electric cords, cables and circuits	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 4-1: Cables for DC charging according to mode 4 of IEC 61851-1 - DC charging without use of a thermal management system	0.6/1 kV AC or less 1 500 V DC or less	N
KS C IEC 62893-1:2017	Electric cords, cables and circuits	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 1: General requirements	0.6/1 kV AC or less 1 500 V DC or less	N
KS C IEC 62893-2:2017	Electric cords, cables and circuits	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 2: Test methods	0.6/1 kV AC or less 1 500 V DC or less	N
KS C IEC 62893-3:2017	Electric cords, cables and circuits	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 3: Cables for AC charging according to modes 1, 2 and 3 of IEC 61851-1 of rated voltages up to and including 450/750 V	450/750 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60309-1:2021	Wiring appliances	Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 1: General requirements	DC / AC 690V or less, 150 A or less, 500 Hz or less	N
IEC 60309-2:2021	Wiring appliances	Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 2: Dimensional compatibility requirements for pin and contact-tube accessories	DC / AC 690V or less, 150 A or less, 500 Hz or less	N
IEC 60320-1:2021	Wiring appliances	Appliance couplers for household and similar general purposes - Part 1: General requirements	a.c. 250 V or less, 16 A or less	N
IEC 60320-2-1:2018	Wiring appliances	Appliance couplers for household and similar general purposes - Part 2-1: Sewing machine couplers	a.c. 250 V or less, 2.5 A or less	N
IEC 60320-2-3:2018	Wiring appliances	Appliance couplers for household and similar general purposes - Part 2-3: Appliance couplers with a degree of protection higher than IPX0	a.c. 250 V or less, 10 A or less	N
IEC 61439-6:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems (busways)	a.c. 600 V or less, 2 500 A or less	N
IEC 61439-3:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons (DBO)	a.c. 600 V or less, 2 500 A or less	N
IEC 61439-4:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS)	a.c. 600 V or less, 2 500 A or less	N
IEC 60570:2019	Wiring appliances	Electrical supply track systems for luminaires	a.c. 440 V or less, 16 A or less	N
IEC 60730-1:2020	Wiring appliances	Automatic electrical controls - Part 1: General requirements	a.c. 690 V or less, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60730-2-10:2006	Wiring appliances	Automatic electrical controls for household and similar use - Part 2-10: Particular requirements for motor-starting relays	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-11:2019	Wiring appliances	Automatic electrical controls - Part 2-11: Particular requirements for energy regulators	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-12:2015	Wiring appliances	Automatic electrical controls - Part 2-12: Particular requirements for electrically operated door locks	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-13:2017	Wiring appliances	Automatic electrical controls - Part 2-13: Particular requirements for humidity sensing controls	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-14:2019	Wiring appliances	Automatic electrical controls - Part 2-14: Particular requirements for electric actuators	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-15:2017	Wiring appliances	Automatic electrical controls - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-22:2014	Wiring appliances	Automatic electrical controls - Part 2-22: Particular requirements for thermal motor protectors	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-3:2006	Wiring appliances	Automatic electrical controls for household and similar use - Part 2-3: Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-5:2021	Wiring appliances	Automatic electrical controls - Part 2-5: Particular requirements for automatic electrical burner control systems	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-6:2019	Wiring appliances	Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	a.c. 690 V or less, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60730-2-7:2015	Wiring appliances	Automatic electrical controls - Part 2-7: Particular requirements for timers and time switches	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-8:2018	Wiring appliances	Automatic electrical controls - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements	a.c. 690 V or less, 63 A or less	N
IEC 60730-2-9:2020	Wiring appliances	Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control	a.c. 690 V or less, 63 A or less	N
IEC 60884-1:2013	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 1:General requirements	a.c. 440 V or less, 32 A or less	N
IEC 60884-2-1:2006	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 2 - 1:Particular requirements for fused plugs	a.c. 440 V or less, 32 A or less	N
IEC 60884-2-2:2006	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 2 - 2:Particular requirements for socket-outlets for appliances	a.c. 250 V or less, 16 A or less	N
IEC 60884-2-3:2006	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 2 - 3:Particular requirements for switched socket-outlets without interlock for fixed installations	a.c. 440 V or less, 32 A or less	N
IEC 60884-2-4:2007	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 2 - 4:Particular requirements for plugs and socket-outlets for SELV	(a.c. / d.c.) 48 V or less, 16 A or less	N
IEC 60884-2-5:2017	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 2:Particular requirements for adaptors	a.c. 440 V or less, 32 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60884-2-6:1997	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 2 - 6:Particular requirements for switched socket-outlets with interlock for fixed electrical installations	a.c. 440 V or less, 32 A or less	N
IEC 60947-1:2020	Wiring appliances	Low-voltage switchgear and controlgear - Part 1: General rules	a.c. 690 V or less, 150 A or less	N
IEC 60947-5-1:2016	Wiring appliances	Low-voltage switchgear and controlgear-Part 5 - 1:Control circuit devices and switching elements-Electromechanical control circuit devices [exception] 8.3.4 Performance under conditional short-circuit current	AC 500V or less AC 150A or less	N
IEC 60981:2019	Wiring appliances	Extra heavy-duty electrical rigid steel conduits	diameter, pipe thickness 168.3 mm or less	N
IEC 61180-1:1992	Wiring appliances	High-voltage test techniques for low voltage equipment-Part 1:Definitions, test and procedure requirements	a.c. 24kV or less	N
IEC 61180-2:1994	Wiring appliances	High-voltage test techniques for low-voltage equipment-Part 2:Test equipment	a.c. 24kV or less	N
IEC 61242:2015	Wiring appliances	Electrical accessories-Cable reels for household and similar purposes	a.c. 440 V or less, 16 A or less	N
KC 60309-1:2015	Wiring appliances	Plugs, socket-outlets and couplers for industrial purposes-Part 1:General requirements	(d.c. / a.c.) 690 V or less, 150 A or less, 500Hz or less	N
KC 60309-2:2015	Wiring appliances	Plugs, socket-outlets and couplers for industrial purposes-Part 2:Dimensional interchangeabilityrequirements for pin and contact-tube accessories	(d.c. / a.c.) 690 V or less, 150 A or less, 500Hz or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60320-1:2015	Wiring appliances	Appliance couplers for household and similar general purposes-Part 1:General requirements	a.c. 250 V or less, 16 A or less	N
KC 60320-2-1:2015	Wiring appliances	Appliance couplers for household and similar general purposes-Part 2-1:Sewing machine couplers	a.c. 250 V or less, 2.5 A or less	N
K 60320-2-2:2006	Wiring appliances	Appliance couplers for household and similar general purposes-Part 2-2:Interconnection couplers for household and similar equipment Part2-2: Interconnection couplers for house hold and simil are quipment	a.c. 250 V or less, 16 A or less	N
KC 60320-2-3:2015	Wiring appliances	Appliance couplers for household and similar general purposes-Part 2 - 3:Appliance couplers with a degree of protection higher than IPX0	a.c. 250 V or less, 10 A or less	N
K 60439-1:2002	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 1:Type-tested and partially type-tested assemblies	a.c. 600 V or less, 2 500 A or less	N
KC 60439-2:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 2:Particular requirements for busbar trunking systems (busways)	a.c. 600 V or less, 2 500 A or less	N
KC 60439-3:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 3:Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use-Distribution boards	a.c. 600 V or less, 2 500 A or less	N
KC 60439-4:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 4:Particular requirements for assemblies for construction sites (ACS)	a.c. 600 V or less, 2 500 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60439-5:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 5:Particular requirements for assemblies for power distribution in public networks	a.c. 600 V or less, 2 500 A or less	N
KC 60529:2015	Wiring appliances	Degrees of protection provided by enclosures (IP Code)	IP 68 or less	N
KC 60570:2015	Wiring appliances	Electrical supply track systems for luminaires	150 V or less	N
KC 60730-1:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 1:General requirements	a.c. 690 V or less, 63 A or less	N
KC 60730-2-1:2015	Wiring appliances	Automatic electrical controls for household and similar use.-Part 2:Particular requirements for electrical controls for electrical household appliances	a.c. 690 V or less, 63 A or less	N
K 60730-2-2:2009	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-2:Particular requirements for thermal motor protectors	a.c. 690 V or less, 63 A or less	N
KC 60730-2-3:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-3:Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps	a.c. 690 V or less, 63 A or less	N
KC 60730-2-4:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-4:Particular requirements for thermal motor protectors for motor-compressors of hermetic and semi-hermetic type motor-compressorsofhermeticandsemi-hermetictype	a.c. 690 V or less, 63 A or less	N
KC 60730-2-5:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-5:Particular requirements for automatic electrical burner control systems	a.c. 690 V or less, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
K 60730-2-6:2009	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-6:Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	a.c. 690 V or less, 63 A or less	N
KC 60730-2-8:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-8:Particular requirements for electrically operated water valves, including mechanical requirements	a.c. 690 V or less, 63 A or less	N
K 60730-2-9:2011	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-9:Particular requirements for temperature sensing controls	a.c. 690 V or less, 63 A or less	N
K 60730-2-10:2009	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-10:Particular requirements for motor-starting relays	a.c. 690 V or less, 63A or less	N
K 60730-2-11:2009	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-11:Particular requirements for energy regulators	a.c. 690 V or less, 63 A or less	N
KC 60730-2-12:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-12:Particular requirements for electrically operated door locks	a.c. 690 V or less, 63 A or less	N
KC 60730-2-13:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-13:Particular requirements for humidity sensing controls	a.c. 690 V or less, 63 A or less	N
KC 60730-2-14:2015	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-14:Particular requirements for electric actuators	a.c. 690 V or less, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60730-2-15:20 15	Wiring appliances	Automatic electrical controls for household and similar use-Part 2 - 15:Particular requirements for automatic electrical air flow, water flow and water level sensing controls	a.c. 690 V or less, 63 A or less	N
KC 60730-2-16:20 15	Wiring appliances	Automatic electrical controls for household and similar use-Part 2 - 16:Particular requirements for automatic electrical water level controls of the float type for household and similar applications	a.c. 690 V or less, 63 A or less	N
KC 60730-2-17:20 15	Wiring appliances	Automatic electrical controls for household and similar use-Part 2 - 17:Particular requirements for electrically operated gas valves, including mechanical requirements	a.c. 690 V or less, 63 A or less	N
K 60730-2-18:20 03	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-18:Particular requirements for automatic electrical water and air flow sensing controls, including mechanical requirements	a.c. 690 V or less, 63 A or less	N
KC 60730-2-19:20 15	Wiring appliances	Automatic electrical controls for household and similar use-Part 2 - 19:Particular requirements for electrically operated oil valves, including mechanical requirements	a.c. 690 V or less, 63 A or less	N
K 60730-2-7:200 9	Wiring appliances	Automatic electrical controls for household and similar use-Part 2:Particular requirements for timers and time switches	a.c. 440 V or less, 40 A or less	N
KC 60884-1:2015	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 1:General requirements	a.c. 440 V or less, 32 A or less	N
KC 60884-2-1:201 5	Wiring appliances	Plugs and Socket-outlets for household and similar purposes-Part 2 - 1:Particular requirements for fused plugs	a.c. 440 V or less, 32 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60884-2-2:2015	Wiring appliances	Plugs and Socket-outlets for household and similar purposes-Part 2-2:Particular requirements for Socket-outlets for Appliances	a.c. 250 V or less, 16 A or less	N
KC 60884-2-3:2015	Wiring appliances	Plugs and Socket-outlets for household and similar purposes-Part 2-3:Particular requirements for Switched Socket-outlets without interlock for fixed installations	a.c. 440 V or less, 32 A or less	N
KC 60884-2-4:2015	Wiring appliances	Plugs and Socket-outlets for household and similar purposes-Part 2-4:Particular requirements for Plugs and Socket-outlets for SELV	(a.c. / d.c.) 48 V or less, 16 A or less	N
KC 60884-2-5:2015	Wiring appliances	Plugs and Socket-outlets for household and similar purposes-Part 2-5:Particular requirements for Adaptors	a.c. 440 V or less, 32 A or less	N
KC 60884-2-6:2015	Wiring appliances	Plugs and Socket-outlets for household and similar purposes-Part 2 - 6:Particular requirements for switched socket-outlets with interlock for fixed electrical installations	a.c. 440 V or less, 32 A or less	N
K 60947-1:2011	Wiring appliances	Low-voltage switchgear and controlgear-Part 1:General rules	a.c. 690 V, 150 A or less	N
KC 60309-1:2015	Wiring appliances	Plugs, socket-outlets and couplers for industrial purposes,-Part 1:General requirements	(d.c. / a.c.) 690 V or less, 150 A, 500 Hz or less	N
KC 60309-2:2015	Wiring appliances	Plugs, socket-outlets and couplers for industrial purposes,-Part 2:Dimensional interchangeability requirements for pin and contact-tube accessories	(d.c. / a.c.) 690 V or less, 150 A, 500 Hz or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60947-5-1:201 6	Wiring appliances	Low-voltage switchgear and controlgear-Part 5-1:Control circuit devices and switching elements-Electromechanical control circuit devices [exception] 8.3.4 Performance under conditional short-circuit current	AC 500V or less AC 150A or less	N
KC 61242:2015	Wiring appliances	Electrical accessories-Cable reels for household and similar purposes	a.c. 250 V or less, 16 A or less	N
KS C 8300:2008	Wiring appliances	Appliance couplers for domestic and similar use	a.c. 250 V or less 16 A or less	N
KS C 8305:2011	Wiring appliances	Plugs and socket-outlets for domestic and similar purposes	a.c. 440 V or less, 32 A or less	N
KS C 8319:2012	Wiring appliances	Flush plates	101 mm or less	N
KS C 8401:2016	Wiring appliances	Rigid steel conduits	outside diameter: 19.1 mm, 25.4 mm, 31.8 mm, 38.1 mm, 50.8 mm, 63.5 mm, 76.2 mm	N
KS C 8422:2005	Wiring appliances	Flexible metal conduits	thickness: 0.25 mm, 0.3 mm, 0.35 mm, 0.4 mm	N
KS C 8425:2014	Wiring appliances	Underfloor ducts (steel)	size (3 600 mm)	N
KS C 8431:2014	Wiring appliances	Unplasticized polyvinyl chloride (UPVC) conduit	2000 V or less	N
KS C 8434:2005	Wiring appliances	Connectors (for rigid P.V.C conduit tubes)	outside diameter: 18 mm, 22 mm, 26 mm, 34 mm, 42 mm, 48 mm, 60 mm, 76 mm, 89 mm, 114 mm	N
KS C 8436:2012	Wiring appliances	Boxes and covers of plastic conduits	nominal diameter:3.6 mm ~ 5.3 mm	N
KS C 8452:2002	Wiring appliances	Junction box for indoor wiring(for polyvinyl-chloride insulated and sheathed cables:VVF)	a.c. 250 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8454:2006	Wiring appliances	Pliable plastics conduits	temperature: (-15 ~ 60) °C	N
KS C 8455:2016	Wiring appliances	Corrugated hard polyethylene pipe	outside diameter: 260 mm or less	N
KS C 8456:2005	Wiring appliances	Fittings for pliable plastics conduits	temperature: (-15 ~ 60) °C	N
KS C 8457:2005	Wiring appliances	Fittings for under underfloor ducts	size 340 mm or less	N
KS C 8458:2012	Wiring appliances	Box and box cover for rigid metal conduits	size 34.8 mm or less	N
KS C 8459:2005	Wiring appliances	Fittings for flexible metal conduits	1 961 N or less	N
KS C 8460:2005	Wiring appliances	Fittings for rigid metal conduits	size 4 mm or less, 2 942 N or less	N
KS C 8461:2005	Wiring appliances	Surface accessory for rigid metal conduits	size 88 mm or less	N
KS C 8463:1997	Wiring appliances	Boxes for elevator call button switch	thickness 1.6 mm or less	N
KS C 8464:2016	Wiring appliances	Cable tray	thickness 6.0 mm or less	N
KS C IEC 60060-1:2015	Wiring appliances	High-voltage test techniques. Part 1:General definitions and test requirements	a.c. 24kV or less	N
KS C IEC 60060-2:2015	Wiring appliances	High voltage test techniques-Part 2:Measuring systems	a.c. 24kV or less	N
KS C IEC 60309-1:2005	Wiring appliances	Plugs, socket-outlets and couplers for industrial purposes-Part 1:General requirements	DC / AC 690V or less, 150 A or less, 500 Hz or less	N
KS C IEC 60309-2:2005	Wiring appliances	Plugs, socket-outlets and couplers for industrial purposes-Part 2:Dimensional interchangeability requirements for pin and contact-tube accessories	DC / AC 690V or less, 150 A or less, 500 Hz or less	N
KS C IEC 60320-1:2007	Wiring appliances	Appliance couplers for household and similar general purposes-Part 1:General requirements	a.c. 250 V or less, 16 A or less	N
KS C IEC 60320-2-1:1984	Wiring appliances	Appliance couplers for household and similar general purposes-Part 2 - 1:Sewing machine couplers	a.c. 250 V or less, 2.5 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60320-2-2:1998	Wiring appliances	Appliance couplers for household and similar general purposes-Part 2 - 2:Interconnection couplers for household and similar equipment	a.c. 250 V or less, 16 A or less	N
KS C IEC 60320-2-3:2005	Wiring appliances	Appliance couplers for household and similar general purposes-Part 2 - 3:Appliance couplers with a degree of protection higher than IPX0	a.c. 250 V or less, 10 A or less	N
KS C IEC 60439-1:1999	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 1:Type-tested and partially type-tested assemblies	a.c. 600 V or less, 2 500 A or less	N
KS C IEC 60439-2:2005	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 2:Particular requirements for busbar trunking systems (busways)	a.c. 600 V or less, 2 500 A or less	N
KS C IEC 60439-4:2004	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 4:Particular requirements for assemblies for construction sites(ACS)	a.c. 600 V or less, 2 500 A or less	N
KS C IEC 60730-2-10:2014	Wiring appliances	Automatic electrical controls for household and similar use -Part 2-10:Particular requirements for motor starting relays	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-11:2019	Wiring appliances	Automatic electrical controls - Part 2-11:Particular requirements for energy regulators	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-12:2015	Wiring appliances	Automatic electrical controls - Part 2-12:Particular requirements for electrically operated door locks	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-13:2017	Wiring appliances	Automatic electrical controls - Part 2-13: Particular requirements for humidity sensing controls	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-14:2017	Wiring appliances	Automatic electrical controls - Part 2-14:Particular requirements for electric actuators	a.c. 690 V or less, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60730-2-15:2017	Wiring appliances	Automatic electrical controls - Part 2-15:Particular requirements for automatic electrical air flow, water flow and water level sensing controls	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-18:2014	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-18:Particular requirements for automatic electrical water and air flow sensing controls, including mechanical requirements	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-19:2001	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-19:Particular requirements for electrically operated oil valves, including mechanical requirements	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-3:2006	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-3:Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-5:2017	Wiring appliances	Automatic electrical controls for household and similar use-Part 2-5:Particular requirements for automatic electrical burner control systems	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-6:2019	Wiring appliances	Automatic electrical controls - Part 2-6:Particular requirements for automatic electrical pressure sensing controls including mechanical requirements	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-7:2015	Wiring appliances	Automatic electrical controls — Part 2-7: Particular requirements for timers and time switches	a.c. 690 V or less, 63 A or less	N
KS C IEC 60730-2-8:2018	Wiring appliances	Automatic electrical controls — Part 2-8:Particular requirements for electrically operated water valves, including mechanical requirements	a.c. 690 V or less, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60730-2-9:201 5	Wiring appliances	Automatic electrical controls — Part 2-9:Particular requirements for temperature sensing control	a.c. 690 V or less, 63 A or less	N
KS C IEC 60884-1:2013	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 1:General requirements	a.c. 440 V or less, 32 A or less	N
KS C IEC 60884-2-1:200 8	Wiring appliances	Plugs and socket - outlets for household and similar purposes — Part 2-1:Particular requirements for fused plugs	a.c. 440 V or less, 32 A or less	N
KS C IEC 60884-2-2:200 8	Wiring appliances	Plugs and socket - outlets for household and similar purposes. — Part 2-2:Particular requirements for socket-outlets for appliances	a.c. 250 V or less, 16 A or less	N
KS C IEC 60884-2-3:200 8	Wiring appliances	Plugs and socket - outlets for household and similar purposes — Part 2 - 3:Particular requirements for switched socket - outlets without interlock for fixed installations	a.c. 440 V or less, 32 A or less	N
KS C IEC 60884-2-4:199 9	Wiring appliances	Plugs and socket-outlets for household and similar purposes — Part 2-4: Particular requirements for plugs and socket-outlets for SELV	d.c./a.c. 48 V or less, 16 A or less	N
KS C IEC 60884-2-5:199 5	Wiring appliances	Plugs and socket - outlets for household and similar purposes — Part 2-5: Particular requirements for adaptors	a.c. 440 V or less, 32 A or less	N
KS C IEC 60884-2-6:199 7	Wiring appliances	Plugs and socket-outlets for household and similar purposes-Part 2 - 6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations	a.c. 440 V or less, 32 A or less	N
KS C IEC 60947-1:2014	Wiring appliances	Low-voltage switchgear and controlgear — Part 1:General rules	a.c. 690 V or less, 150 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60947-5-1:201 2	Wiring appliances	Low-voltage switchgear and controlgear—Part 5-1: Control circuit devices and switching elements — Electromechanical control circuit devices [exception] 8.3.4 Performance under conditional short-circuit current	AC 500V or less AC 150A or less	N
KS C IEC 60981:1989	Wiring appliances	Extra-heavy duty rigid steel conduits for electrical installations	inside diameter: (12.5 ~ 154.8) mm outside diameter: (17.1 ~ 168.3) mm pipe thickness: (2.31 ~ 6.76) mm length with coupling:3.00 m	N
KS C IEC 61242:1995	Wiring appliances	Electrical accessories—Cable reels for household and similar purposes	a.c. 440 V or less, 16 A or less	N
KS C IEC 61386-22:2002	Wiring appliances	Conduit systems for cable management — Part 22: Particular requirements — Pliable conduit systems	outside screw thread: (5.5 ~ 19.0) mm inside screw thread: (6.5 ~ 20.0) mm	N
K 10026:2013	Wiring appliances	Automatic socket-outlet to cut-off standby power	a.c. 250V or less, 16 A or less	N
IEC 62196-1:2014	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements	AC 690 V, 250 A or less DC 1 500 V, 400 A or less	N
IEC 62196-2:2016	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2 : Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories	AC 480 V or less AC 70 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62196-3:2014	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3: Dimensional compatibility and interchangeability requirements for d.c and a.c./d.c. pin and contact-tube vehicle couplers	AC 1 000 V, 250 A or less DC 1 500 V, 250 A or less	N
IEC TS 62196-3-1:2020	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3-1: Vehicle connector, vehicle inlet and cable assembly for DC charging intended to be used with a thermal management system	DC 1 500 V or less DC 500 A or less	N
KS R IEC 62196-1:2014	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements	AC 690 V, 250 A or less DC 1 500 V, 400 A or less	N
KS R IEC 62196-2:2016	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2 : Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories	AC 480 V or less AC 70 A or less	N
KS R IEC 62196-3:2014	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3: Dimensional compatibility and interchangeability requirements for d.c and a.c./d.c. pin and contact-tube vehicle couplers	AC 1 000 V, 250 A or less DC 1 500 V, 250 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS R IEC TS 62196-3-1:2020	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3-1: Vehicle connector, vehicle inlet and cable assembly for DC charging intended to be used with a thermal management system	DC 1 500 V or less DC 500 A or less	N
KC 62196-1:2019	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements	AC 690 V, 250 A or less DC 1 500 V, 400 A or less	N
KC 62196-2:2020	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2 : Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories	AC 480 V or less AC 70 A or less	N
KC 62196-3:2018	Wiring appliances	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3: Dimensional compatibility and interchangeability requirements for d.c and a.c./d.c. pin and contact-tube vehicle couplers	AC 1 000 V, 250 A or less DC 1 500 V, 250 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60085:2007	Electrical materials and components	Electrical insulation - Thermal evaluation and designation	250 °C or less	N
IEC 60384-1:2021	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 1: Generic specification	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
IEC 60384-14:2013	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
IEC 60384-4:2016	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 4: Sectional specification - Fixed aluminium electrolytic capacitors with solid (MnO ₂) and non-solid electrolyte	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
IEC 60384-4-1:2007	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 4-1: Blank detail specification - Fixed aluminium electrolytic capacitors with non-solid electrolyte - Assessment level EZ	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
IEC 60384-4-2:2007	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 4-2: Blank detail specification - Fixed aluminium electrolytic capacitors with solid (MnO ₂) electrolyte - Assessment level EZ	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
IEC 60384-8:2015	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 8: Sectional specification: Fixed capacitors of ceramic dielectric, Class 1	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60384-9:2015	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 9: Sectional specification: Fixed capacitors of ceramic dielectric, Class 2	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
IEC 60384-9-1:200 5	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 9-1: Blank detail specification: Fixed capacitors of ceramic dielectric, Class 2 - Assessment level EZ	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
IEC 60529:2015	Electrical materials and components	Degrees of protection provided by enclosures (IP Code)	IP 68 or less	N
IEC 60664-1:2020	Electrical materials and components	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	d.c. 1 500 V or less, a.c. 1 000 V/30 kHz or less	N
IEC 60669-1:2017	Electrical materials and components	Switches for household and similar fixed-electrical installations - Part 1: General requirements	a.c. 440 V, 63 A or less	N
IEC 60669-2-1:202 1	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices	a.c. 250 V, 16 A or less	N
IEC 60669-2-2:200 6	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)	a.c. 440 V, 63 A or less	N
IEC 60669-2-3:200 6	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)	a.c. 440 V, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60669-2-4:2004	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches	a.c. 440 V, 125 A or less	N
IEC 60939-1:2010	Electrical materials and components	Passive filter units for electromagnetic interference suppression - Part 1: Generic specification	a.c. 500 V or less frequency 100 Hz	N
IEC 60939-2:2005	Electrical materials and components	Passive filter units for electromagnetic interference suppression - Part 2: Sectional specification - Passive filter units for which safety tests are appropriate - Test methods and general requirements	a.c. 500 V or less frequency 100 Hz	N
IEC 61048:2015	Electrical materials and components	Auxiliaries for lamps - Capacitors for use in tubular fluorescent and other discharge lamp circuits - General and safety requirements	a.c. 1 000 V or less 2.5 kVAr	N
IEC 61058-1:2016	Electrical materials and components	Switches for appliances - Part 1: General requirements	a.c. 480 V, 63 A or less	N
IEC 61058-2-1:2018	Electrical materials and components	Switches for appliances - Part 2-1: Particular requirements for cord switches	a.c. 250 V, 16 A or less	N
IEC 61058-2-4:2018	Electrical materials and components	Switches for appliances - Part 2-4: Particular requirements for independently mounted switches	a.c. 480 V, 63 A or less	N
IEC 61058-2-5:2018	Electrical materials and components	Switches for appliances - Part 2-5: Particular requirements for change-over selectors	a.c. 480 V, 63 A or less	N
IEC 61095:2009	Electrical materials and components	Electromechanical contactors for household and similar purposes	440 V, 40 A or less	N
KC 60085:2015	Electrical materials and components	Electrical insulation - Thermal evaluation and designation	480 V, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60384-1:2015	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 1: Generic specification	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
KC 60384-14:2015	Electrical materials and components	Fixed capacitors for use in electronic equipment - Part 14: Sectional specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
KC 60529:2015	Electrical materials and components	Degrees of protection provided by enclosures (IP Code)	IP 68 or less	N
KC 60669-1:2015	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 1: General requirements	a.c. 440 V,63 A or less	N
KC 60669-2-1:2015	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices	a.c. 250 V,16 A or less	N
KC 60669-2-2:2015	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)	a.c. 440 V,63 A or less	N
KC 60669-2-3:2015	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)	a.c. 440 V,63 A or less	N
KC 60939-1:2015	Electrical materials and components	Passive filter units for electromagnetic interference suppression - Part 1: Generic specification	a.c. 500 V or less frequency 100 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60939-2:2015	Electrical materials and components	Passive filter units for electromagnetic interference suppression - Part 2: Sectional specification - Passive filter units for which safety tests are appropriate - Test methods and general requirements	a.c. 500 V or less frequency 100 Hz	N
KC 61048:2015	Electrical materials and components	Auxiliaries for lamps - Capacitors for use in tubular fluorescent and other discharge lamp circuits - General and safety requirements	a.c. 1 000 V or less 2.5 kVAr	N
KC 61050:2015	Electrical materials and components	Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 000 V(generally called neon-transformers).-General and safety requirements	a.c. 1000 V or less	N
KC 61058-1:2015	Electrical materials and components	Switches for appliances - Part 1: General requirements	a.c. 480 V,63 A or less	N
KC 61058-2-1:2015	Electrical materials and components	Switches for appliances - Part 2-1: Particular requirements for cord switches	a.c. 250 V,16 A or less	N
KC 61058-2-4:2015	Electrical materials and components	Switches for appliances - Part 2-4: Particular requirements for independently mounted switches	a.c. 480 V,63 A or less	N
KC 61058-2-5:2015	Electrical materials and components	Switches for appliances - Part 2-5: Particular requirements for change-over selectors	a.c. 480 V,63 A or less	N
K 61095:2002	Electrical materials and components	Electromechanical contactors for household and similar purposes	440 V, 63 A or less	N
KS B 6154:2016	Electrical materials and components	Room thermostats	220 V, 20 A or less	N
KS C 2212:2002	Electrical materials and components	Metallized polyester film for capacitors	thickness:(4.0 ~ 16.0) μm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 2301:2017	Electrical materials and components	Electrical insulating oils	type 1 ~ 7	N
KS C 2302:2020	Electrical materials and components	Cotton-rubber adhesive tapes for electrical insulation	-	N
KS C 2306:2019	Electrical materials and components	Pressure- sensitive adhesive polyvinyl chloride tapes for electrical insulation	-	N
KS C 2321:2014	Electrical materials and components	Varnishes for enameled wires	-	N
KS C 2322:2003	Electrical materials and components	Coil insulating papers	-	N
KS C 2324:2003	Electrical materials and components	Combined flexible materials consisting of polyester films and insulating papers for electrical purposes	-	N
KS C 2325:2003	Electrical materials and components	Heat baking coil varnishes	-	N
KS C 2344:2003	Electrical materials and components	Polyester films for electrical purposes	-	N
KS C 2347:2003	Electrical materials and components	Pressure-sensitive polyester adhesive tapes for electrical insulation	-	N
KS C 2351:2014	Electrical materials and components	Glassfabric based varnished fabrics	-	N
KS C 2356:2003	Electrical materials and components	Air drying coil varnishes	-	N
KS C IEC 60394-1:1972	Electrical materials and components	Varnished fabrics for electrical purposes-Part 1:Definitions and general requirements.	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60371-1:2003	Electrical materials and components	Specification for insulating materials based on mica-Part 1:Definition and general requirements.	-	N
KS C 2363:2002	Electrical materials and components	Mica with paper on both sides(Sheets and tapes)	-	N
KS C 2364:2002	Electrical materials and components	Flexible mica materials	-	N
KS C IEC 60464-1:2013	Electrical materials and components	Varnishes used for electrical insulation Part 1:Definitions and general requirements	-	N
KS C 2508:2003	Electrical materials and components	Resin flux cored solders	outside diameter: (0.3 ~ 3.0) mm	N
KS C 2620:2011	Electrical materials and components	Crimp-type terminal lugs for copper conductors	-	N
KS C 2621:2005	Electrical materials and components	Non-insulated crimp-type sleeves for copper conductors	-	N
KS C 2624:2005	Electrical materials and components	Flat quick - connect terminals	-	N
KS C 3117:2014	Electrical materials and components	Deadend clamp and bolt type connector for aluminum	-	N
KS C 3134:2008	Electrical materials and components	Contact conductors with insulating covers	d.c. 750 V or less, a.c.600 V or less, 2 000 A or less	N
KS C 4307:2013	Electrical materials and components	Pole transformer bushings	extra-high tension bushing (for 22.9 kV, for 11.4 kV) high - tension (for 6 kV)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 4506:1990	Electrical materials and components	Cut-out switches	a.c. 250 V, 100 A or less	N
KS C 4508:2012	Electrical materials and components	Sensitive switches	a.c. 600 V, d.c. 250 V, frequency 60 Hz, 25 A or less	N
KS C 4515:1990	Electrical materials and components	Enclosed switches	a.c. 250 V, frequency 60 Hz, 100 A, 3.7 kW or less	N
KS C 4519:1992	Electrical materials and components	Cam operated control switches	a.c. 600 V (frequency 60 Hz), d.c. 250 V or less 40 A or less	N
KS C 4522:1986	Electrical materials and components	Mechanical timer	a.c. 300 V, frequency 60 Hz or less 40 A or less	N
KS C 4534:1990	Electrical materials and components	Electronic preset counters	a.c. 250 V (frequency 60 Hz), d.c. 250 V or less 40 A or less	N
KS C 4612:2001	Electrical materials and components	High-voltage current-limiting fuses	a.c. 1 000 V exceed	N
KS C 4801:2020	Electrical materials and components	Low-voltage power condenser	a.c. 1 000 V or less	N
KS C 4802:2020	Electrical materials and components	High voltage power condenser	a.c. 1 000 V or less	N
KS C 4803:2002	Electrical materials and components	Electrolytic capacitors for motor starting	a.c. 380 V or less	N
KS C 4804:1981	Electrical materials and components	Discharge coils for high voltage power capacitors	44 600 V or less (single phase) 33 000 V or less (three phases)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 4805:2002	Electrical materials and components	Capacitors for electrical apparatus	a.c. 1 000 V or less	N
KS C 4806:1989	Electrical materials and components	Series reactors for high voltage power capacitors	a.c. 2 660 V or less	N
KS C 5506:1996	Electrical materials and components	Cassette tape	rating tape speed:4.76 cm/s	N
KS C 5517:1998	Electrical materials and components	Video cassette tape (VHS Type)	vertical frequency: 60 Hz number of scanning line:525 width 12.65 mm	N
KS C 6038:2014	Electrical materials and components	Toggle switches for use in electronic equipment	a.c. 300 V,20 A or less	N
KS C 6042:1995	Electrical materials and components	Enclosed sensitive switches	a.c. 500 V (frequency 60 Hz), d.c. 250 V, 20 A or less	N
KS C 6409:2002	Electrical materials and components	Carbon potentiometers for general use	niminal outside diameter:12 mm, 16 mm, 24 mm	N
KS C 6410:2002	Electrical materials and components	Fixed ceramic capacitors(Class 2) for electronic equipment	rated voltage: 50 V,500 V, 1 000 V, 2 000 V, 3 150 V,4 000 V, 6 300 V	N
KS C 6411:2002	Electrical materials and components	Fixed ceramic capacitors class 1 for use in electronic equipment	rated voltage: 50 V,500 V, 1 000 V, 2 000 V, 3 150 V, 4 000 V, 6 300 V	N
KS C 6419:2002	Electrical materials and components	Fixed wire wound resistors-Power type	temperature : -55 °C ~ 200 °C	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 6423:2002	Electrical materials and components	Fixed mica capacitors for use in electronic equipment	temperature coefficient: (-200 ~ +200) ppm/°C	N
KS C 6502:1983	Electrical materials and components	Disk records	nominal outside diameter:17 cm, 25 cm, 30 cm	N
KS C 6609:1997	Electrical materials and components	Concentric plugs and jacks	adhesive strength:0.15 Nm, 0.2 Nm, 0.3 Nm	N
KS C 8303:1992	Electrical materials and components	Link fuses	a.c. 250 V or less	N
KS C 8308:1990	Electrical materials and components	Thermostats	a.c. 250 V or less, 20 A or less	N
KS C 8309:2014	Electrical materials and components	Small switches for indoor use	a.c. 250 V or less, frequency 60 Hz, 20 A or less	N
KS C 8311:1990	Electrical materials and components	Knife switches with cover	a.c. 250 V or less, frequency 60 Hz, 100 A or less	N
KS C 8318:1990	Electrical materials and components	Small switches for street lamp	a.c. 250 V or less, 30 A or less	N
KS C IEC 60730-1:2020	Electrical materials and components	Automatic electrical controls - Part 1: General requirements	a.c. 440 V or less, 40 A or less	N
KS C IEC 60384-3:2006	Electrical materials and components	Fixed capacitors for use in electronic equipment-Part 3:Sectional specification:Surface mount fixed tantalum electrolytic capacitors with manganese dioxide solid electrolyte	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60384-4:2007	Electrical materials and components	Fixed capacitors for use in electronic equipment-Part 4:Sectional specification:Aluminium electrolytic capacitors with solid and non-solid electrolyte	a.c. 1 000 V or less d.c. 1 000 V or less frequency 100 Hz or less	N
KS C IEC 60529:2013	Electrical materials and components	Degrees of protection provided by enclosures(IP Code)	IP 68 or less	N
KS C IEC 60641-3-1:2008	Electrical materials and components	Specification for pressboard and presspaper for electrical purposes-Part 3:Specifications for individual materials-Sheet 1:Requirements for pressboard, types B.0.1, B.2.1, B.2.3, B.3.1, B.3.3, B.4.1, B.4.3, B.5.1, B.6.1 and B.7.1	tensile strength 110 MPa or less, extension 10 % or less	N
KS C IEC 60669-1:2008	Electrical materials and components	Switches for household and similar fixed-electrical installations-Part 1:General requirements	a.c. 440 V,63 A or less	N
KS C IEC 60669-2-1:2015	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices	a.c. 250 V, 16 A or less	N
KS C IEC 60669-2-2:2008	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)	a.c. 440 V, 63 A or less	N
KS C IEC 60669-2-3:2008	Electrical materials and components	Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)	a.c. 440 V, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60939-1:2010	Electrical materials and components	Passive filter units for electromagnetic interference suppression-Part 1:Generic specification	a.c. 500 V or less frequency 100 Hz	N
KS C IEC 60939-2:1988	Electrical materials and components	Passive filter units for electromagnetic interference suppression-Part 2:Sectional specification-Passive filter units for which safety tests are appropriate-Test methods and general requirements	a.c. 500 V or less frequency 100 Hz	N
KS C IEC 61048:2008	Electrical materials and components	Auxiliaries for lamps-Capacitors for use in tubular fluorescent and other discharge lamp circuits-General and safety requirements	a.c. 1 000 V or less 2.5 kVAr	N
KS C IEC 61058-1:2008	Electrical materials and components	Switches for appliances - Part 1: General requirements	a.c. 480 V, 63 A or less	N
KS C IEC 61058-2-1:2010	Electrical materials and components	Switches for appliances - Part 2-1: Particular requirements for cord switches	a.c. 250 V,16 A or less	N
KS C IEC 61058-2-4:2003	Electrical materials and components	Switches for appliances - Part 2-4: Particular requirements for independently mounted switches	a.c. 480 V, 63 A or less	N
KS C IEC 61058-2-5:2010	Electrical materials and components	Switches for appliances - Part 2-5: Particular requirements for change-over selectors	a.c. 480 V, 63 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.005 Measuring instruments

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61010-1:2016	Measuring instruments	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 61010-1:2010	Measuring instruments	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 61010-2-010:2014	Measuring instruments	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 61010-2-010:2019	Measuring instruments	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 61010-2-020:2016	Measuring instruments	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 61010-2-040:2015	Measuring instruments	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.005 Measuring instruments

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61010-2-040:2020	Measuring instruments	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 61010-2-101:2015	Measuring instruments	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 61010-2-101:2018	Measuring instruments	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	DC / AC 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 61010-1:2010	Measuring instruments	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use-Part 1:General Requirements	-	N
KS C 1208:2010	Measuring instruments	Alternating-current watt-hour meters	a.c. 600 V or less	N
KS C IEC 60051-1:1997	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 1:Definitions and general requirements common to all Parts	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.005 Measuring instruments

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60051-2:1984	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 2:Special requirements for ammeters and voltmeters	grade:0.05, 0.1, 0.2, 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 5	N
KS C IEC 60051-3:1984	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 3:Special requirements for wattmeters and varimeters	grade:0.05, 0.1, 0.2, 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 5	N
KS C IEC 60051-4:1984	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 4:Special requirements for frequency meters	grade:0.05, 0.1, 0.15, 0.2, 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 5	N
KS C IEC 60051-5:1985	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 5:Special requirements for phase meters, power factor meters and synchrosopes	grade:0.1, 0.2, 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 5	N
KS C IEC 60051-6:1984	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 6:Special requirements for ohmmeters (impedance meters) and conductance meters	grade:0.05, 0.1, 0.2, 0.5, 1, 1.5, 2, 2.5, 3, 5	N
KS C IEC 60051-7:1984	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 7:Special requirements for multi-function instruments	grade:0.05, 0.1, 0.15, 0.2, 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 5	N

Korea Laboratory Accreditation Scheme

No. KT005

03.005 Measuring instruments

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60051-8:1984	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 8:Special requirements for accessories	grade:0.02, 0.05, 0.1, 0.2, 0.3, 0.5, 1, 2, 5, 10	N
KS C IEC 60051-9:1998	Measuring instruments	Direct acting indicating analogue electrical measuring instruments and their accessories-Part 9:Recommended test methods	-	N
KS C 1604:2017	Measuring instruments	Indicating resistance thermometers	(-200 ~ 500) °C	N
KS C 1608:2017	Measuring instruments	Indicating thermoelectric thermometers	(-200 ~ 1 700) °C	N
KS C 1609:2008	Measuring instruments	Compensating lead wires	(-20 ~ 150) °C	N
KS C 1613:2019	Measuring instruments	Thermoelectric digital thermometer	(-200 ~ 1 700) °C	N
KS C 1614:2019	Measuring instruments	Resistance digital thermometer	(-200 ~ 500) °C	N
KS C 1706:2020	Measuring instruments	Instrument transformers for testing purpose and used with general instrument	-	N
KS C 1707:2011	Measuring instruments	Instrument transformers for metering service	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61558-1:2017	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 1:General requirements and tests	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-1:2021	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-1: Particular requirements and tests for separating transformers and power supply units incorporating separating transformers for general applications	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-12:2011	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combination thereof-Part 2 - 12:Particular requirements and tests for constant voltage transformers and power supply units for constant voltage	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-13:2009	Electrical machinery for industries	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V-Part 2 - 13:Particular requirements and tests for auto transformers and power supply units incorporating auto transformers	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-15:2011	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 15:Particular requirements and tests for isolating transformers for the supply of medical locations	380 V, 25 kVA 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61558-2-2:2007	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products-Part 2 - 2:Particular requirements and tests for control transformers and power supplies incorporating control transformers	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-3:2010	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 3:Particular requirements and tests for ignition transformers for gas and oil burners	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-4:2021	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers for general applications	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-5:2010	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 5:Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units	380 V, 25 kVA 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61558-2-6:202 1	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers for general applications	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-7:200 7	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products-Part 2 - 7:Particular requirements and tests for transformers and power supplies for toys	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-8:201 0	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 8:Particular requirements and tests for transformers and power supply units for bells and chimes	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-9:201 0	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 9:Particular requirements and tests for transformers and power supply units for class III handlamps for tungsten filament lamps	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 61558-2-20:20 10	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 20:Particular requirements and tests for small reactors	380 V, 25 kVA 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61558-2-23:2010	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 23:Particular requirements and tests for transformers and power supply units for construction sites	380 V, 25 kVA 50 Hz / 60 Hz	N
IEC 60974-1:2021	Electrical machinery for industries	Arc welding equipment-Part 1:Welding power sources	380 V 50 Hz / 60 Hz	N
KC 61558-1:1998	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products-Part 1:General requirements and tests	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-1:1997	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products-Part 2 - 1:Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-13:1999	Electrical machinery for industries	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V-Part 2 - 13:Particular requirements and tests for auto transformers and power supply units incorporating auto transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-17:1997	Electrical machinery for industries	Safety of power transformers, power supply units and similar-Part 2 - 17:Particular requirements for transformers for switch mode power supplies	380 V, 25 kVA, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61558-2-19:20 00	Electrical machinery for industries	Safety of power transformers, power supply units and similar devices-Part 2 - 19:Particular requirements for perturbation attenuation transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-2:199 7	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products-Part 2 - 2:Particular requirements and tests for control transformers and power supplies incorporating control transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-20:20 00	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 20:Particular requirements and tests for small reactors	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-3:199 9	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 3:Particular requirements and tests for ignition transformers for gas and oil burners	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-4:199 7	Electrical machinery for industries	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V-Part 2 - 4:Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61558-2-5:199 7	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 5:Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-6:199 7	Electrical machinery for industries	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V-Part 2 - 6:Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-7:199 7	Electrical machinery for industries	Safety of transformers, power supply, reactors and similar products-Part 2 - 7:Particular requirements and tests for transformers and power supplies for toys	380 V, 25 kVA, 50 Hz / 60 Hz	N
KC 61558-2-8:199 8	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof-Part 2 - 8:Particular requirements and tests for transformers and power supply units for bells and chimes	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C 4306:2019	Electrical machinery for industries	Single bushing transformers	380 V, 100 kVA, 50 Hz / 60 Hz	N
KS C 6308:2002	Electrical machinery for industries	Power transformer for electronic equipment	1 kVA or less, 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9602:2007	Electrical machinery for industries	AC arc welding machines	380 V, 50 Hz / 60 Hz	N
KS C 9605:1997	Electrical machinery for industries	Rectifier type DC arc welding machines with drooping characteristics	380 V, 50 Hz / 60 Hz	N
KS C 9619:2009	Electrical machinery for industries	Small single phase transformer for household purpose	380 V, 5 kVA or less, 50 Hz / 60 Hz	N
KS C IEC 61558-1:2009	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products — Part 1: General requirements and tests	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-13:2009	Electrical machinery for industries	Safety of Transformers, Reactors, Power supply units and similar products for supply voltages up to 1 100 V - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformer	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-15:2011	Electrical machinery for industries	Safety of power transformers, Reactors, power supply units and Combination thereof - Part 2-15: Particular requirements and tests for isolating transformers for the supply of medical locations	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-17:2002	Electrical machinery for industries	Safety of power transformers, power supply units and similar — Part 2 : Particular requirements for transformers for switch mode power supplies	380 V, 25 kVA, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61558-2-19:20 02	Electrical machinery for industries	Safety of power transformers, power supply units and similar devices-Part 2 - 19:Particular requirements for perturbation attenuation transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-2:200 7	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products - Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-20:20 10	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20: Particular requirements and tests for small reactors	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-3:201 0	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-3: Particular requirements and tests for ignition transformers for gas and oil burners	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-4:200 9	Electrical machinery for industries	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V-Part 2-4:Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61558-2-5:2010	Electrical machinery for industries	Safety of power transformers, reactors, power supply units and combinations thereof — Part 2-5: Particular requirements and test for transformer shavers, power supply units for shavers and shaver supply units	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-6:2009	Electrical machinery for industries	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V-Part 2-6:Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-7:2007	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products-Part 2-7:Particular requirements and tests for transformers and power supplies for toys	380 V, 25 kVA, 50 Hz / 60 Hz	N
KS C IEC 61558-2-8:2010	Electrical machinery for industries	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes	380 V, 25 kVA, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61558-2-1:200 7	Electrical machinery for industries	Safety of power transformers, power supplies, reactors and similar products-Part 2-1:Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications	380 V, 25 kVA, 50 Hz / 60 Hz	N
IEC 62040-1:2017	Electrical machinery for industries	Uninterruptible power systems (UPS)-Part 1:safety requirements	(single / three) phase 1 000 V or less	N
K 62040-1:2011	Electrical machinery for industries	Uninterruptible power systems (UPS)-Part 1:General and safety requirements for UPS	(single / three) phase 1 000 V or less	N
IEC 62040-3:2011	Electrical machinery for industries	Uninterruptible power systems UPS)-Part 3:Method of specifying the performance and test requirements	(single / three) phase 1 000 V or less	N
K 62040-3:2011	Electrical machinery for industries	Uninterruptible power systems (UPS)-Part 3:Method of specifying the performance and test requirements	(single / three) phase 1 000 V or less	N
IEC 60034-1:2017	Electrical machinery for industries	Rotating electrical machines-Part 1:Rating and performance	Single phase: Max 400 V Three Phases: Max 600 V Capacity:Max 375 kW	N
IEC 60745-1:2006	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 1:General requirements	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-1:200 8	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2-1:Particular requirements for drills and impact drills	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60745-2-11:20 08	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2-11:Particular requirements for reciprocating saws(jig and sabre saws)	(d.c. / a.c.) 250 V or less,three phases 440 V or less,50 Hz / 60 Hz	N
IEC 60745-2-12:20 08	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2-12:Particular requirements for concrete vibrators	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-13:20 09	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 13:Particular requirements for chain saws	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-14:20 10	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2-14:Particular requirements for planers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-15:20 09	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 15:Particular requirements for hedge trimmers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-16:20 08	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 16:Particular requirements for tackers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-17:20 10	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2-17:Particular requirements for routers and trimmers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-18:20 08	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2-18:Particular requirements for strapping tools	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60745-2-19:2010	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 19:Particular requirements for jointers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-20:2008	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 20:Particular requirements for band saws	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-21:2008	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 21:Particular requirements for drain cleaners	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-2:2008	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 2:Particular requirements for screwdrivers and impact wrenches	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-3:2012	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 3:Particular requirements for grinders, polishers and disk-type sanders	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-4:2008	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 4:Particular requirements for sanders and polishers other than disk type	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-5:2010	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 5:Particular requirements for circular saws	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-6:2008	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 6:Particular requirements for hammers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60745-2-7:198 9	Electrical machinery for industries	Safety of hand-held motor-operated electric tools. Part 2: Particular requirements for spray guns for non-flammable liquids	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-8:200 8	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 8:Particular requirements for shears and nibblers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 60745-2-9:200 8	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 9:Particular requirements for tappers	(d.c. / a.c.) 250 V or less, three phases 440 V or less, 50 Hz / 60 Hz	N
IEC 61029-1:1990	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 1:General requirements	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less, 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-1:200 1	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2-1: Particular requirements for circular saws	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less, 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-2:199 3	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2: Particular requirements for radial arm saws	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less, 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-3:200 1	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2-3: Particular requirements for planers and thicknessers	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less, 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-4:200 1	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2-4: Particular requirements for bench grinders	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less, 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61029-2-5:200 1	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2-5: Particular requirements for band saws	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-6:199 3	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2: Particular requirements for diamond drills with water supply	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-7:199 3	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2: Particular requirements for diamond saws with water supply	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-8:200 1	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2-8: Particular requirements for single spindle vertical moulders	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-9:199 5	Electrical machinery for industries	Safety of transportable motor-operated electric tools - Part 2: Particular requirements for mitre saws	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-10:19 98	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 10:Particular requirements for cutting-off grinders	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
IEC 61029-2-11:20 01	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 11:Particular requirements for mitre-bench saws	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-18:20 08	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 18:Particular requirements for strapping tools	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60745-2-19:20 10	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 19:Particular requirements for jointers	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-20:20 08	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 20:Particular requirements for band saws	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-21:20 08	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 21:Particular requirements for drain cleaners	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-10:20 07	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 10:Particular requirements for cutting-off grinders	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-11:20 01	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 11:Particular requirements for mitre-bench saws	(d.c. / a.c.) 250 V, 2.5 kW or less, three phases 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
K 10014:2008	Electrical machinery for industries	Three phase squirrel cage , Single phase induction motors and similar rotating appliances for general purpose	(single / three) phase 600 V or less, 50 Hz / 60 Hz	N
KC 60745-1:2022	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 1:General requirements	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-1:202 2	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety - Part 2-1:Particular requirements for drills and impact drills	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60745-2-11:20 15	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 11:Particular requirements for reciprocating saws(jig and sabre saws)	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-12:20 15	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 12:Particular requirements for concrete vibrators	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-13:20 22	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 13:Particular requirements for chain saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-14:20 22	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 14:Particular requirements for planers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-15:20 22	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 15:Particular requirements for hedge trimmers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-16:20 22	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 16:Particular requirements for tackers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-17:20 22	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 17:Particular requirements for routers and trimmers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-2:202 2	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 2:Particular requirements for screwdrivers and impact wrenches	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60745-2-3:201 5	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 3:Particular requirements for grinders, polishers and disk-type sanders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-4:201 5	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 4:Particular requirements for sanders and polishers other than disk type	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-5:201 6	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 5:Particular requirements for circular saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-6:202 2	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 6:Particular requirements for hammers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-7:201 5	Electrical machinery for industries	Safety of hand-held motor-operated electric tools. Part 2: Particular requirements for spray guns for non-flammable liquids	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-8:202 2	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 8:Particular requirements for shears and nibblers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 60745-2-9:202 2	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 9:Particular requirements for tappers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
K 60974-1:2010	Electrical machinery for industries	Arc welding equipment-Part 1:Welding power sources	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61029-1:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 1:General requirements	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-1:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2-1:Particular requirements for circular saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-10:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 10:Particular requirements for cutting-off grinders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-2:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 2:Particular requirements for radial arm saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-3:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 3:Particular requirements for planers and thicknessers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-4:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 4:Particular requirements for bench grinders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-5:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 5:Particular requirements for band saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-6:2015	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 6:Particular requirements for diamond drills with water supply	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61029-2-7:201 5	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 7:Particular requirements for diamond saws with water supply	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-8:201 5	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 8:Particular requirements for single spindle vertical moulders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KC 61029-2-9:201 5	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 9:Particular requirements for mitre saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C 4202:2020	Electrical machinery for industries	Low-voltage three-phase squirrel-cage induction motors for general purpose	a.c. 600 V or less, 50 Hz / 60 Hz	N
KS C 4204:2003	Electrical machinery for industries	Single phase induction motors for general purpose	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C 9102:2002	Electrical machinery for industries	Portable electric planers	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C 9103:2002	Electrical machinery for industries	Portable electric circular saws	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C 9615:2002	Electrical machinery for industries	Portable electric drills	(d.c. / a.c.) 250 V or less, 3Ø 440 V or less, 50 Hz / 60 Hz	N
KS C 9627:2002	Electrical machinery for industries	Hand-held electric grinders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less, 50 Hz / 60 Hz,	N
KS C IEC 60745-1:2006	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 1:General requirements	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60745-2-1:2008	Electrical machinery for industries	Safety of hand-held motor-operated electric tools — Part 2: Particular requirements for drills	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-11:2003	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 11:Particular requirements forreciprocating saws (jig and sabre saws)	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-12:2003	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 12:Particular requirements forconcrete vibrators	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-13:2011	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 13:Particular requirements forchain saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-14:2010	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 14:Particular requirementsfor planers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-15:2009	Electrical machinery for industries	Hand-held motor-operated electric tools — Safety — Part 2-15: Particular requirements for hedge trimmers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-16:2008	Electrical machinery for industries	Hand-held motor-operated electric tools — Safety — Part 2-16: Particular requirements for tackers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-17:2010	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 17:Particular requirementsfor routers and trimmers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60745-2-2:2003	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 2:Particular requirementsfor screwdrivers and impact wrenches	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-3:2012	Electrical machinery for industries	Hand-held motor-operated electric tools — Safety — Part 2-3: Particular requirements for grinders, polishers and disk-type sanders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-4:2008	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 4:Particular requirements forsanders and polishers other than disk type	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-5:2010	Electrical machinery for industries	Hand-held motor-operated electric tools - Safety-Part 2 - 5:Particular requirements for circular saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-6:2008	Electrical machinery for industries	Safety of hand-held motor-operated electric tools — Part 2-6: Particular requirements for hammers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-7:1989	Electrical machinery for industries	Safety of hand-held motor-operated electric tools — Part 2: Particular requirements for spray guns for Non-flammable liquids	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-8:2008	Electrical machinery for industries	Hand-held motor-operated electric tools-Safety-Part 2 - 8:Particular requirementsfor shears and nibblers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60745-2-9:2008	Electrical machinery for industries	Safety of hand-held motor-operated electric tools-Part 2 - 9:Particular requirements for tappers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61029-1:1990	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 1:General requirements	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-1:2007	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 1:Particular requirements for circular saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-2:1993	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2:Particular requirements for radial arm saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-3:1993	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 3:Particular requirements for planers and thicknessers	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-4:1993	Electrical machinery for industries	Safety of transportable motor-operated electric tools — Part 2: Particular requirements for bench grinders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-5:1993	Electrical machinery for industries	Safety of transportable motor-operated electric tools — Part 2: Particular requirements for band saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-6:1993	Electrical machinery for industries	Safety of transportable motor-operated electric tools — Part 2: Particular requirements for diamond drills with water supply	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-7:1993	Electrical machinery for industries	Safety of transportable motor-operated electric tools — Part 2: Particular requirements for diamond saws with water supply	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.006 Electrical machinery for industries

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61029-2-8:199 5	Electrical machinery for industries	Safety of transportable motor-operated electric tools-Part 2 - 8:Particular requirements for single spindle vertical moulders	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 61029-2-9:199 5	Electrical machinery for industries	Safety of transportable motor-operated electric tools — Part 2: Particular requirements for mitre saws	(d.c. / a.c.) 250 V, 2.5 kW or less, 3Ø 440 V or less 4 kW or less, 50 Hz / 60 Hz	N
KS C IEC 60034-1:2017	Electrical machinery for industries	Rotating electrical machines-Part 1:Rating and performance	Single phase:Max 400 V Three Phases:Max 600 V Capacity:Max 375 kW	N
KS C IEC 60034-2-1:201 4	Electrical machinery for industries	Rotating electrical machines-Part 2 - 1:Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)	output 0.75 kW ~ 375 kW	N
SASO IEC 60034-1:2014	Electrical machinery for industries	Rotating electrical machines-Part 1:Rating and performance	Single phase:Max 400 V Three Phases:Max 600 V Capacity:Max 375 kW	N
IEC 60034-2-1:201 4	Electrical machinery for industries	Rotating electrical machines - Part 2-1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)	output 0.75 kW ~ 375 kW	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
EN 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus - Safety requirements	(d.c. / a.c.) 250 V or less three phases 433 V or less, (43 ~ 67) Hz	N
EN 60950-1:2013	Electrical machinery for households	Safety of information technology equipment-Safety requirements	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
IEC 60065:2010	Electrical machinery for households	Audio, video and similar electronic apparatus-Safety requirements	(d.c. / a.c.) 250 V or less three phases 433 V or less (43 ~ 67) Hz	N
IEC 60065:2014	Electrical machinery for households	Audio, video and similar electronic apparatus-Safety requirements	(d.c. / a.c.) 250 V or less three phases 433 V or less (43 ~ 67) Hz	N
IEC 60268-5:2007	Electrical machinery for households	Sound system equipment-Part 5:Loudspeakers	20 Hz ~20 kHz	N
IEC 60950-1:2009	Electrical machinery for households	Information technology equipment - Safety-Part 1:General requirements	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
IEC 60950-1:2013	Electrical machinery for households	Information technology equipment - Safety-Part 1:General requirements	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
K 10001:2006	Electrical machinery for households	Hand-held telephone battery chargers	(d.c. / a.c.) voltage 250 V or less (43 ~ 67) Hz	N
KC 60065:2015	Electrical machinery for households	Audio, video and similar electronic apparatus-Safety requirements	(d.c. / a.c.) 250 V or less three phases 433 V or less, (43 ~ 67) Hz	N
K 60950-1:2011	Electrical machinery for households	Information technology equipment - Safety-Part 1:General requirements	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
KS C 4310:2021	Electrical machinery for households	Uninterruptible power system	single/three phases 1 000 V or less (43 ~ 67) Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 6306:1978	Electrical machinery for households	Horn type loud speakers	frequency 20 Hz ~ 20 kHz	N
KS C IEC 60268-5:2010	Electrical machinery for households	Sound system equipment-Part 5:Loudspeakers	frequency 20 Hz ~ 20 kHz	N
UL 60065:2015	Electrical machinery for households	Audio, video and similar electronic apparatus-Safety requirements	(d.c. / a.c.) 250 V or less three phases 433 V or less, (43 ~ 67) Hz	N
UL 60950-1:2007	Electrical machinery for households	Information Technology Equipment-Safety-Part 1:General Requirements	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
KC 61851-1:2020	Electrical machinery for households	Electric vehicle conductive charging system-Part 1:General requirements	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
KC 61851-1:2022	Electrical machinery for households	Electric vehicle conductive charging system-Part 1:General requirements	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
KC 61851-22:2015	Electrical machinery for households	Electric vehicle conductive charging system-Part 22:AC electric vehicle charging station	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
KC 61851-23:2018	Electrical machinery for households	Electric vehicle conductive charging system-Part 23:DC electric vehicle charging station	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
IEC 61851-24:2014	Electrical machinery for households	Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
IEC 61851-1:2017	Electrical machinery for households	Electric vehicle conductive charging system-Part 1:General requirements	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
IEC 61851-1:2010	Electrical machinery for households	Electric vehicle conductive charging system-Part 1:General requirements	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61851-23:2014	Electrical machinery for households	Electric vehicle conductive charging system-Part 23:DC electric vehicle charging station	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
IEC 62368-1:2014	Electrical machinery for households	Audio/video, information and communication technology equipment-Part 1:Safety requirements	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
IEC 62368-1:2018	Electrical machinery for households	Audio/video, information and communication technology equipment - Part 1: Safety requirements (Exception) -AppendixM,M.7 Risk of explosion from lead acid and NiCd batteries -AppendixM,M.8 Protection against internalignition and external spark sources of batteries with aqueous electrolyte	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
KS C IEC 62368-1:2018	Electrical machinery for households	Audio/video, information and communication technology equipment - Part 1: Safety requirements (Exception) -AppendixM,M.7 Risk of explosion from lead acid and NiCd batteries -AppendixM,M.8 Protection against internalignition and external spark sources of batteries with aqueous electrolyte	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 62368-1:2021	Electrical machinery for households	Audio/video, information and communication technology equipment – Part 1: Safety requirements (Exception) -AppendixM,M.7 Risk of explosion from lead acid and NiCd batteries -AppendixM,M.8 Protection against internalignition and external spark sources of batteries with aqueous electrolyte	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
GS-6130-0053: 2020	Electrical machinery for households	KEPCO Code of Conduct for Suppliers:Charging stand for Electric car	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
GS-6130-0054: 2020	Electrical machinery for households	KEPCO Code of Conduct for Suppliers:Quick Charger for Electric Vehicle	AC 1 000 V or less (43 ~ 67) Hz DC 1 500 V or less	N
IEC 60825-1:2007	Electrical machinery for households	Safety of laser products-Part 1:Equipment classification and requirements	(200 nm ~ 2 100 nm) 0.3 nW ~ 6 W	N
IEC 60825-1:2014	Electrical machinery for households	Safety of laser products-Part 1:Equipment classification and requirements	(200 nm ~ 2 100 nm) 0.3 nW ~ 6 W	N
IEC 60825-2:2010	Electrical machinery for households	Safety of laser products-Part 2:Safety of optical fiber communication systems(OFCs)	(200 nm ~ 2 100 nm) 0.3 nW ~ 6 W	N
KS C IEC 60825-1:2014	Electrical machinery for households	Safety of laser products-Part 1:Equipment classification and requirements and user's guide	(200 nm ~ 2 100 nm) 0.3 nW ~ 6 W	N
KS C IEC 60825-9:2002	Electrical machinery for households	Safety of laser products-Part 9:Compilation of maximum permissible exposure to incoherent optical radiation	(200 nm ~ 2 100 nm) 0.3 nW ~ 6 W	N
KS C IEC 60581-1:2003	Electrical machinery for households	High fidelity audio equipment and systems:Minimum performance requirements.-Part 1:General	frequency:20 Hz ~ 20 kHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60581-10:2003	Electrical machinery for households	High fidelity audio equipment and systems:Minimum performance requirements.-Part 10:Headphones	frequency:20 Hz ~ 20 kHz	N
KS C IEC 60581-5:2003	Electrical machinery for households	High fidelity audio equipment and systems:Minimum performance requirements.-Part 5:Microphones	frequency:20 Hz ~ 20 kHz	N
KS C IEC 60581-7:2003	Electrical machinery for households	High fidelity audio equipment and systems:Minimum performance requirements.-Part 7:Loudspeakers	frequency:20 Hz ~ 20 kHz	N
IEC 62233:2005	Electrical machinery for households	Measurement methods for electromagnetic field of household appliances and similar apparatus with regard to human exposure	electromagnetic field 300 GHz or less	N
K 10014:2008	Electrical machinery for households	Three phase squirrel cage, Single phase induction motors and similar rotating appliances for general purpose	a.c. 250 V or less (50 / 60) Hz	N
KS C 9102:2002	Electrical machinery for households	Portable electric planers	a.c. 250 V or less threephases 480 V or less, 60Hz	N
KS C 9103:2002	Electrical machinery for households	Portable electric circular saws	a.c. 250 V or less threephases 480 V or less, 60Hz	N
KS B 4058:2014	Electrical machinery for households	Electric bench grinders	a.c. 250 V or less, three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60688:2002	Electrical machinery for households	Electrical measuring transducers for converting a.c. electrical quantities to analogue or digital signals	input frequency (5 ~ 1 500) Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 1708:2005	Electrical machinery for households	Electrical measuring transducers for converting A.C.electrical quantities into D.C. electrical quantities	(d.c. / a.c.) voltage 600 V or less (43 ~ 67) Hz	N
KS C 9806:2014	Electrical machinery for households	Digital door lock	d.c 100 V or less a.c 300 V or less (50 ~ 60) Hz	N
KS C IEC 9806:2009	Electrical machinery for households	Digital door lock	d.c 100 V or less a.c 300 V or less (50 ~ 60) Hz	N
KS P 6114:2006	Electrical machinery for households	Electric wheelchairs	(d.c. / a.c.) 250 V or less multiphase 500 V or less	N
KS X 5003:2001	Electrical machinery for households	Keyboard for personal computer	-	N
KS C IEC 62115:2007	Electrical machinery for households	Electric toys-Safety	d.c. 24 V or less, a.c. 250 V or less (50 / 60) Hz	N
IEC 62115:2011	Electrical machinery for households	Electric toys-Safety	d.c. 24 V or less, a.c. 250 V or less (50 / 60) Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.008 Wired/Wireless communication devices

Test method	Products and materials	Standard designation	Test range	Field testing
IETF RFC 2544:1999	Wired/Wireless communication devices	Benchmarking Methodology for Network Interconnect Devices <Exceptions> 26.4 Back-to-back frames 26.5 System recovery 26.6 Reset	IP Throughput: max 80 Gbps	N
IETF RFC 3511:2003	Wired/Wireless communication devices	Benchmarking Methodology for Firewall Performance <Exceptions> 5.5 Denial of Service Handling 5.8 Illegal Traffic Handling 5.9 IP Fragmentation Handling	IP throughput: max 80 Gbps TCP Connection Establishment Rate (CPS):max 2 million Application Concurrent Flows:max 60 million	N

Korea Laboratory Accreditation Scheme

No. KT005

03.008 Wired/Wireless communication devices

Test method	Products and materials	Standard designation	Test range	Field testing
MSIT Notice No. 2021-78 (10.08.2021.)	Wired/Wireless communication devices	TECHNICAL STANDARDS FOR UNLICENSED RADIO EQUIPMENT ISSUED <Exclusionsitem> Clause6 of Article7 Relay Radio equipment with specific low power Clause9 of Article7 Radar to prevent collisions Radio equipment with specific low power Clause10 of Article 7 Road Information Detention Radar Radio equipment with specific low power Article9 Codeless Phone Article10 UW Band Unspecified use Radio equipment Article11 Medical Implant Communication Service Radio equipment Clause3 of Article12 Radio equipment for detecting objects(24GHz) Article13 TVWS Radio equipment for data communication Article14 Radar Level Measurement Radio equipment	Frequency range (3 Hz~50 GHz) Power (50 dBm) TX-Spuruioustrength (-110 dBm~30 dBm) RX-Spuruioustrength (-110 dBm~30 dBm)	N
EN 300 328 V2.1.1 (2016-11)	Wired/Wireless communication devices	Wideband transmission systems;Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	30 MHz ~ 12.75 GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.008 Wired/Wireless communication devices

Test method	Products and materials	Standard designation	Test range	Field testing
EN 300 328 V2.2.2 (2019-07)	Wired/Wireless communication devices	Wideband transmission systems;Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	30 MHz ~ 12.75 GHz	N
EN 301 511 V12.5.1 (2017-03)	Wired/Wireless communication devices	Global System for Mobile communications (GSM);Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	30 MHz ~ 4 GHz	N
EN 301 526 V1.1.1 (2006-07)	Wired/Wireless communication devices	Electromagnetic compatibilityand Radio spectrum Matters (ERM);Harmonized EN for CDMA spread spectrum mobile stations operating in the 450 MHz cellular band (CDMA 450) and 410, 450 and 870 MHz PAMR bands (CDMA-PAMR) covering essential requirements of article 3.2 of the R&TTE Directive	30 MHz ~ 12.75 GHz	N
EN 301 893 V2.1.1 (2017-05)	Wired/Wireless communication devices	5 GHz RLAN;Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	30 MHz ~ 26 GHz	N
EN 301 908-1 V13.1.1 (2019-11)	Wired/Wireless communication devices	IMT cellular networks - Harmonised Standard for access to radio spectrum - Part 1 : introduction and common requirements	30 MHz ~ 12.75 GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.008 Wired/Wireless communication devices

Test method	Products and materials	Standard designation	Test range	Field testing
EN 303 417 V1.1.1(2017-06)	Wired/Wireless communication devices	Wireless power transmission using technologies other than radio frequency beam in the 19-21 kHz, 59-61 kHz, 79-90 kHz, 100-300 kHz, 6 765-6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	30 MHz ~ 1 GHz	N
EN 300 330 V2.1.1 (2017-02)	Wired/Wireless communication devices	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	9 kHz ~ 1 GHz	N
EN 300 440 V2.2.1 (2018-07)	Wired/Wireless communication devices	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	30 MHz ~ 40 GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
LED traffic signal light (by National Police Agency: April, 2022)	Lighting devices	Guide of Standard for LED Traffic Signal Light	a.c. 600 V or less	N
Count down pedestrian light (by National Police Agency:2018)	Lighting devices	Guide of Standard for Count Down Pedestrian Light	a.c. 600 V or less	N
MOF Notice No. 2017-133 (09.26.2017.)	Lighting devices	Approval tests and verification standards of ships and ship materials 40. Safety light 48. Electricity navigation light 49. An incandescent lamp specialized in using a ship 50. Flash light 51. Maneuvering Signaling 57. Signal light 65. Interior light 67. Lifejacket light 114. Search light	a.c. 600 V or less	N
ME Notice No. 2017-103(05.25.2017.)	Lighting devices	Notification on revisions of subject products subject for environmental mark and verification Standard EL201 Fluorescent lamps EL202 Fluorescent lamps ballast EL203 Compact Fluorescent ballast lamps EL204 Discharge Luminaires ballast	40 W or less 300 V ac or less 5 W ~ 60 W 300 V ac or less	N
IEC 60061-1:2017	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 1:Lamp caps	Size range in Annex	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60061-1S:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 1:Lamp caps	Size range in Annex	N
IEC 60061-1T:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 1:Lamp caps	Size range in Annex	N
IEC 60061-1U:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 1:Lamp caps	Size range in Annex	N
IEC 60061-1V:1997	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 1:Lamp caps	Size range in Annex	N
IEC 60061-2:2018	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 2:Lampholders	Size range in Annex	N
IEC 60061-2P:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 2:Lampholders	Size range in Annex	N
IEC 60061-2Q:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 2:Lampholders	Size range in Annex	N
IEC 60061-2S:1997	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 2:Lampholders	Size range in Annex	N
IEC 60061-3:2019	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 3:Gauges	Size range in Annex	N
IEC 60061-3R:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 3:Gauges	Size range in Annex	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60061-3S:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 3:Gauges	Size range in Annex	N
IEC 60061-3T:1996	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and Safety-Part 3:Gauges	Size range in Annex	N
IEC 60061-3U:1997	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 3:Gauges	Size range in Annex	N
IEC 60061-4:2018	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 4:Guidelines and general information	Size range in Annex	N
IEC 60061-4A:1992	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 4:Guidelines and general information	Size range in Annex	N
IEC 60061-4B:1994	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 4:Guidelines and general information	Size range in Annex	N
IEC 60061-4C:1994	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 4:Guidelines and general information	Size range in Annex	N
IEC 60061-4D:1995	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 4:Guidelines and general information	Size range in Annex	N
IEC 60064:2009	Lighting devices	Tungsten filament lamps for domestic and similar general lighting purposes-Performance requirements	25 W ~ 200 W	N
IEC 60081:2017	Lighting devices	Double-capped fluorescent lamps-Performance specifications	25 W ~ 200 W	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60112:2020	Lighting devices	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	Lamps operated on a.c. mains or high frequency with preheated, non-preheated cathodes	N
IEC 60155:2006	Lighting devices	Glow-starters for fluorescent lamps	1 000 V or less	N
IEC 60188:2001	Lighting devices	High-pressure mercury vapour lamps-Performance specifications	For preheated fluorescent lamp	N
IEC 60192:2001	Lighting devices	Low-pressure sodium vapour lamps-Performance specifications	Related datasheet	N
IEC 60216-1:2013	Lighting devices	Electrical insulating materials-Properties of thermal endurance-Part 1:Ageing procedures and evaluation of test results	Related datasheet	N
IEC 60238:2020	Lighting devices	Edison screw lampholders	E11, E12, E14, E17, E26, E27, E39, E40	N
IEC 60317-0-1:2019	Lighting devices	Specifications for particular types of winding wires-Part 0 - 1:General requirements-Enamelled round copper wire	conductor diameter 5.0 mm or less	N
IEC 60357:2011	Lighting devices	Tungsten halogen lamps (non vehicle)-Performance specifications	250 V or less	N
IEC 60360:1999	Lighting devices	Standard method of measurement of lamp cap temperature rise	300 °C	N
IEC 60400:2017	Lighting devices	Lampholders for tubular fluorescent lamps and starterholders	1 000 V or less	N
IEC 60432-1:2011	Lighting devices	Incandescent lamps-Safety specifications - Part 1:Tungsten filament lamps for domestic and similar general lighting purposes	200 W or less, (50 ~ 250) V	N
IEC 60432-2:2012	Lighting devices	Incandescent lamps-Safety specifications - Part 2:Tungsten halogen lamps for domestic and similar general lighting purposes	200 W or less, (50 ~ 250) V	N
IEC 60529:2019	Lighting devices	Degrees of protection provided by enclosures(IP Code)	72 .5 kV , IP 68 or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60570:2019	Lighting devices	Electrical supply track systems for luminaires.	class 1 440 V, class 3 25 V or less	N
IEC 60598-1:2020	Lighting devices	Luminaires-Part 1:General requirements and tests	1 000 V or less	N
IEC 60598-2-1:2020	Lighting devices	Luminaires. Part 2:Particular requirements. Section One:Fixed general purpose luminaires	1 000 V or less	N
IEC 60598-2-17:2017	Lighting devices	Luminaires. Part 2 - 17:Particular requirements. Section Seventeen-Luminaires for stage lighting, television and film studios (outdoor and indoor)	1 000 V or less	N
IEC 60598-2-18:2013	Lighting devices	Luminaires-Part 2:Particular requirements-Section 18:Luminaires for swimming pools and similar applications	1 000 V or less	N
IEC 60598-2-19:1997	Lighting devices	Luminaires. Part 2:Particular requirements.Section Nineteen:Air-handling luminaires(safety requirements)	1 000 V or less	N
IEC 60598-2-2:2011	Lighting devices	Luminaires-Part 2 - 2:Particular requirements-Section 2:Recessed luminaires	1 000 V or less	N
IEC 60598-2-20:2016	Lighting devices	Luminaires-Part 2 - 20:Particular requirements-Lighting chains	1 000 V or less	N
IEC 60598-2-22:2017	Lighting devices	Luminaires-Part 2 - 22:Particular requirements-Luminaires for emergency lighting	1 000 V or less	N
IEC 60598-2-23:2020	Lighting devices	Luminaires-Part 2:Particular requirements-Section 23:Extra low voltage lighting systems for filament lamps	1 000 V or less	N
IEC 60598-2-24:2013	Lighting devices	Luminaires-Part 2 - 24:Particular requirements-Luminaires with limited surface temperatures	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60598-2-25:2004	Lighting devices	Luminaires-Part 2 - 25:Particular requirements-Luminaires for use in clinical areas of hospitals and health care buildings	1 000 V or less	N
IEC 60598-2-3:2011	Lighting devices	Luminaires-Part 2 - 3:Particular requirements-Luminaires for road and street lighting	1 000 V or less	N
IEC 60598-2-4:2017	Lighting devices	Luminaires-Part 2 - 4:Particular requirements-Portable general purpose luminaires	250 V or less	N
IEC 60598-2-5:2015	Lighting devices	Luminaires-Part 2 - 5:Particular requirements-Floodlights	1 000 V or less	N
IEC 60598-2-8:2013	Lighting devices	Luminaires-Part 2 - 8:Particular requirements-Handlamps	250 V or less	N
IEC 60598-2-9:1993	Lighting devices	Luminaires. Part 2:Particular requirements. Section Nine:Photo and film luminaires (non-professional)	250 V or less	N
IEC 60630:2014	Lighting devices	Maximum lamp outlines for incandescent lamps	Size range in Annex	N
IEC 60662:2011	Lighting devices	High-pressure sodium vapour lamps-Performance specifications	Related Datasheet	N
IEC 60664-1:2020	Lighting devices	Insulation coordination for equipment within low-voltage systems-Part 1:Principles, requirements and tests	1 000 V ac or less, 1 500 V dc or less,	N
IEC 60682:1997	Lighting devices	Standard method of measuring the pinch temperature of quartz - tungsten-halogen lamps	300 °C	N
IEC 60691:2019	Lighting devices	Thermal-links-Requirements and application guide	(a.c., d.c.) 690 V, 63 A or less	N
IEC 60695-2-10:2013	Lighting devices	Fire Hazard testing-Part 2 - 10:Glowing / hot-wire based test methods - Glow-wire apparatus and common test procedure	960 °C or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60695-2-11:20 14	Lighting devices	Fire hazard testing-Part 2 - 1 1:Glowing / hot-wire based test methods - Glow-wire flammability test method for end-products	960 °C or less	N
IEC 60695-2-12:20 14	Lighting devices	Fire hazard testing-Part 2 - 12:Glowing / hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	960 °C or less	N
IEC 60695-2-13:20 20	Lighting devices	Fire hazard testing-Part 2 - 13:Glowing / hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	960 °C or less	N
IEC 60695-11-5:20 16	Lighting devices	Fire hazard testing-Part 11 - 5:Test flames - Needle-flame test method-Apparatus, confirmatory test arrangement and guidance	960 °C or less	N
IEC 60730-2-3:200 6	Lighting devices	Automatic electrical controls for household and similar use-Part 2 - 3:Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps	690 Vac or less	N
IEC 60809:2021	Lighting devices	Lamps for road vehicles-Dimensional, electrical and luminous requirements	600 V or less	N
IEC 60810:2019	Lighting devices	Lamps, light sources and LED packages for road vehicles - Performance requirements	600 V or less	N
IEC 60838-1:2020	Lighting devices	Miscellaneous lampholders-Part 1:General requirements and tests	250 V or less	N
IEC 60838-2-1:201 3	Lighting devices	Miscellaneous lampholders-Part 2:Particular requirements-Section 1:Lampholders S14	250 V or less	N
IEC TR 60887:2010	Lighting devices	Glass bulb designation system for lamps	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60901:2014	Lighting devices	Single-capped fluorescent lamps-Performance specifications	Lamps operated on a.c. mains or high frequency with preheated, non-preheated cathodes	N
IEC 60921:2006	Lighting devices	Ballasts for tubular fluorescent lamps - Performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
IEC 60923::2006	Lighting devices	Auxiliaries for lamps-Ballasts for discharge lamps(excluding tubular fluorescent lamps)-Performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
IEC 60927:2013	Lighting devices	Auxiliaries for lamps-Starting devices (other than glow starters)-Performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
IEC 60929:2015	Lighting devices	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps-Performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
IEC 60968:2015	Lighting devices	Self-ballasted lamps for general lighting services-Safety requirements	a.c. 50 V ~ 250 V	N
IEC 60969:2017	Lighting devices	Self-ballasted compact fluorescent lamps for general lighting services-Performance requirements	a.c. 50 V ~ 250 V	N
IEC 60983:2005	Lighting devices	Miniature lamps	25 W or less	N
IEC 61047:2004	Lighting devices	DC or AC supplied electronic step-down convertors for filament lamps-Performance requirements	d.c. 250 V, a.c. 1 000 V or less	N
IEC 61048:2015	Lighting devices	Auxiliaries for lamps-Capacitors for use in tubular fluorescent and other discharge lamp circuits-General and safety requirements	1 000 V or less	N
IEC 61049:1992	Lighting devices	Capacitors for use in tubular fluorescent and other discharge lamp circuits. Performance requirements	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61050:1994	Lighting devices	Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 000 V(generally called neon-transformers). General and safety requirements	Unloading output 1 000 V ~ 10 000 V	N
IEC 61126:2005	Lighting devices	Procedure for use in the preparation of maximum lamp outlines	1 000 V or less	N
IEC TR 61127:1992	Lighting devices	High pressure xenon short arc lamps-Dimensional, electrical and photometric data and cap types	1 000 V or less	N
IEC 61167:2019	Lighting devices	Metal halide lamps-Performance specification	1 000 V or less	N
IEC 61184:2019	Lighting devices	Bayonet lampholders	250 V, Type B15d and B22d	N
IEC 61195:2014	Lighting devices	Double-capped fluorescent lamps-Safety specifications	Fa6, Fa8, G5, G13, R17d, W4.3X8.5d	N
IEC 61199:2014	Lighting devices	Single-capped fluorescent lamps-Safety specifications	2G7, 2GX7, GR8, 2GR10, G10q, GR10q, GX10q, GY10q, 2G11, G23, GX23, G24, GX24, GX32	N
IEC 61228:2020	Lighting devices	Fluorescent ultraviolet lamps used for tanning-Measurement and specification method	200 nm ~ 1 000 nm	N
IEC 61231:2013	Lighting devices	International lamp coding system (ILCOS)	1 000 V or less	N
IEC TR 61341:2010	Lighting devices	Method of measurement of centre beam intensity and beam angle(s) of reflector lamps	100 000 cd or less	N
IEC 61347-1:2017	Lighting devices	Lamp controlgear-Part 1:General and safety requirements	1 000 V or less	N
IEC 61347-2-1:2013	Lighting devices	Lamp controlgear-Part 2 - 1:Particular requirements for starting devices (other than glow starters)	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61347-2-10:2008	Lighting devices	Amendment 1-Lamp controlgear-Part 2 - 10:Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)	1 000 V or less	N
IEC 61347-2-11:2017	Lighting devices	Lamp controlgear-Part 2 - 11:Particular requirements for miscellaneous electronic circuits used with luminaires	1 000 V or less	N
IEC 61347-2-2:2011	Lighting devices	Lamp controlgear-Part 2 - 2:Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps	1 000 V or less	N
IEC 61347-2-3:2016	Lighting devices	Lamp controlgear-Part 2 - 3:Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps	1 000 V or less	N
IEC 61347-2-7:2017	Lighting devices	Lamp controlgear-Part 2 - 7:Particular requirements for d.c. supplied electronic ballasts for emergency lighting	1 000 V or less	N
IEC 61347-2-8:2012	Lighting devices	Lamp controlgear-Part 2 - 8:Particular requirements for ballasts for fluorescent lamps	1 000 V or less	N
IEC 61347-2-9:2012	Lighting devices	Lamp controlgear-Part 2 - 9:Particular requirements for ballasts for discharge lamps(excluding fluorescent lamps)	1 000 V or less	N
IEC 61549:2012	Lighting devices	Miscellaneous lamps	Related Data-sheet	N
IEC 62031:2018	Lighting devices	LED modules for general lighting-Safety specifications	d.c. 250 V, a.c. 1 000 V or less	N
IEC 62035:2016	Lighting devices	Discharge lamps (excluding fluorescent lamps)-Safety specifications	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61347-2-13:2016	Lighting devices	Lamp controlgear Part 2 - 13:Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	1 000 V or less	N
IEC 62384:2020	Lighting devices	DC or AC supplied electronic control gear for LED modulesPerformance requirements	1 000 V or less	N
IEC 60838-2-2:2012	Lighting devices	Miscellaneous lampholders-Part 2 - 2:Particular requirements Connectors for LED-modules	1 000 V or less	N
K 10005:2011	Lighting devices	Electrodeless fluorescent lamp safety requirements	1 000 W or less	N
KC 60061-1:2015	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 1:Lamp caps	Size range in Annex	N
K 60061-1S:2000	Lighting devices	Lamp caps	Size range in Annex	N
K 60061-1T:2000	Lighting devices	Lamp caps and holders(Lamp caps)	Size range in Annex	N
K 60061-1U:2000	Lighting devices	Lamp caps and holders discharge circuit capacitors together with gauges for the control of interchangeability and safety	Size range in Annex	N
K 60061-1V:2001	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety - Lamp base	Size range in Annex	N
KC 60061-2:2015	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 2:Lampholders	Size range in Annex	N
K 60061-2P:2000	Lighting devices	Lamp caps and holders together with gauges	Size range in Annex	N
K 60061-2Q:2000	Lighting devices	Lamp caps and holders together with gauges	Size range in Annex	N
K 60061-2S:2000	Lighting devices	Lamp caps and holders (Lamp caps)	Size range in Annex	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60061-3:2015	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 3:Gauges	Size range in Annex	N
K 60061-3R:2000	Lighting devices	Lamp caps and holders together with gauges	Size range in Annex	N
K 60061-3S:2000	Lighting devices	Lamp caps and holders gauges	Size range in Annex	N
K 60061-3T:2000	Lighting devices	Lamp caps and holders gauges	Size range in Annex	N
K 60061-3U:2001	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety - Gauges	Size range in Annex	N
KC 60061-4:2015	Lighting devices	Lamp caps and holders together with gauges for the control of interchangeability and safety-Part 4:Guidelines and general information	Size range in Annex	N
K 60061-4A:2000	Lighting devices	Lamp caps and holders - Guidelines and general information	Size range in Annex	N
K 60061-4B:2000	Lighting devices	Lamp caps and holders(Guidelines and general information)	Size range in Annex	N
K 60061-4C:2000	Lighting devices	Lamp caps and holders together with gauges	Size range in Annex	N
K 60061-4D:2000	Lighting devices	Lamp caps and holders - Guidelines and general information	Size range in Annex	N
KC 60064:2015	Lighting devices	Tungsten filament lamps for domestic and similar general lighting purpose-Performance requirements	1 000 W or less	N
KC 60081:2017	Lighting devices	Double-capped fluorescent lamps-Performance specifications	125 W or less	N
KC 60155:2015	Lighting devices	Glow-starters for fluorescent lamps	250 V or less	N
KC 60188:2015	Lighting devices	High-Pressure Mercury Vapour Lamps-Performance specifications	1 000 W or less	N
KC 60192:2015	Lighting devices	Low-Pressure sodium vapour lamps-Performance specifications	1 000 W or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60216-1:2015	Lighting devices	Electrical insulating materials-Thermal endurance properties-Part 1:Ageing procedures and evaluation of test results	general condition and process	N
KC 60238:2015	Lighting devices	Edison screw lampholders	250 V or less	N
KC 60357:2015	Lighting devices	Tungsten halogen lamps (non vehicle)-Performance specifications	250 V or less	N
KC 60400:2021	Lighting devices	Lampholders for tubular fluorescent lamps and starterholders	1 000 V or less	N
KC 60432-1:2015	Lighting devices	Incandescent lamps-Safety specifications-Part 1:Tungsten filament lamps for domestic and similar general lighting purposes	250 V or less	N
KC 60432-2:2015	Lighting devices	Incandescent lamps-Safety specifications-Part 2:Tungsten halogen lamps for domestic and similar general lighting purposes	rated power 250 W or less / rated voltage (50 ~250) V or less /base B15d, B22d, E12, E14, E17, E26, E26d, E26/50×39, E27	N
KC 60432-3:2015	Lighting devices	Incandescent lamps-Safety specifications-Part 3:Tungsten halogen lamps (non-vehicle)	Single and double cap tungsten halogen lamp having a rated voltage of up to 250 V	N
KC 60529:2015	Lighting devices	Degrees of protection provided by enclosures (IP Code)	IP 68 or less	N
KC 60570:2015	Lighting devices	Electrical supply track systems for luminaires	1 000 V or less	N
K 60570-2-1:2000	Lighting devices	Electrical supply track systems for luminaires	1 000 V or less	N
KC 60598-1:2022	Lighting devices	Luminaires-Part 1:General requirements and tests	1 000 V or less	N
KC 60598-2-1:2022	Lighting devices	Luminaires.-Part 2 - 1:Particular requirements-Fixed general purpose luminaires	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60598-2-17:20 15	Lighting devices	Luminaires.-Part 2 - 17:Particular requirements. Section Seventeen - Luminaires for stage lighting, television and film studios (outdoor and indoor)	1 000 V or less	N
KC 60598-2-18:20 15	Lighting devices	Luminaires-Part 2 - 18:Particular requirements-Luminaires for swimming pools and similar applications	1 000 V or less	N
KC 60598-2-19:20 15	Lighting devices	Luminaires.-Part 2 - 19 :Particular requirements-Air-handling luminaires(safety requirements)	1 000 V or less	N
KC 60598-2-2:202 2	Lighting devices	Luminaires-Part 2 - 2:Particular requirements-Recessed luminaires	1 000 V or less	N
KC 60598-2-20:20 22	Lighting devices	Luminaires-Part 2 - 20:Particular requirements-Lighting chains	1 000 V or less	N
KC 60598-2-22:20 15	Lighting devices	Luminaires-Part 2 - 22:Particular requirements-emergency lighting	1 000 V or less	N
KC 60598-2-23:20 15	Lighting devices	Luminaires-Part 2 - 23:Particular requirements-Extra low voltage lighting systems for filament lamps	1 000 V or less	N
KC 60598-2-24:20 15	Lighting devices	Luminaires-Part 2 - 24:Particular requirements-Luminaires with limited surface temperatures	1 000 V or less	N
KC 60598-2-25:20 15	Lighting devices	Luminaires-Part 2:Particular requirements-Section 25:luminaires for use in clinical areas of hospitals and health care buildings	1 000 V or less	N
KC 60598-2-3:201 5	Lighting devices	Luminaires-Part 2 - 3:Particular requirements-Luminaires for road and street lighting	1 000 V or less	N
KC 60598-2-4:202 2	Lighting devices	Luminaires-Part 2:Particular requirements-Section 4:Portable general purpose luminaires	1 000 V or less	N
KC 60598-2-5:202 2	Lighting devices	Luminaires-Part 2 - 5:Particular requirements-Floodlights	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60598-2-6:2015	Lighting devices	Luminaires-Part 2:Particular requirements-Section 6:Luminaires with built-in transformers for filament lamps	1 000 V or less	N
KC 60598-2-8:2021	Lighting devices	Luminaires-Part 2 - 8:Particular requirements-Handlamps	1 000 V or less	N
KC 60682:2015	Lighting devices	Standard method of measuring the pinch temperature of quartz - tungsten-halogen lamps	300 °C or less	N
K 60695-2-1/0:2003	Lighting devices	Fire hazard testing-Part 2:test methods-Section 1 / sheet 0:glow-wire test methods-general	960 °C or less	N
K 60695-2-1/1:2003	Lighting devices	Fire hazard testing-Part 2:test methods-Section 1 / sheet 1:glow-wire end-product test and guidance	960 °C or less	N
KC 60695-2-2:2015	Lighting devices	Fire hazard testing-Part 2:Test methods-Section 2:Needle-flame test	960 °C or less	N
KC 60730-2-3:2015	Lighting devices	Automatic electrical controls for household and similar use-Part 2 - 3:Particular requirements for thermal protectors for ballasts for tubular fluorescent lamp	660 V, 63 A or less	N
K 60838-1:2011	Lighting devices	Miscellaneous lampholders-Part 1:general requirements and tests	1 000 V or less	N
KC 60838-2-1:2015	Lighting devices	Miscellaneous lampholders-Part 2:Particular requirements-Section 1:Lampholders S14	1 000 V or less	N
KC 60838-2-2:2022	Lighting devices	Miscellaneous lampholders-Part 2 - 2:Particular requirements-Connectors for LED-modules	1 000 V or less	N
K 60882:2000	Lighting devices	Pre-heat requirements for starterless tubular fluorescent lamps	1 000 V or less	N
K 60887:2000	Lighting devices	Glass bulb designation system for lamps	1 000 V or less	N
KC 60901:2017	Lighting devices	Single-capped fluorescent lamps-Performance specifications	100 W or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
K 60920:2000	Lighting devices	Ballast for tubular fluorescent lamps general and safety requirements	50 Hz or 60 Hz, 1 000 V or less	N
KC 60921:2015	Lighting devices	Ballasts for tubular fluorescent lamps-Performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
KC 60923:2015	Lighting devices	Auxiliaries for lamps-Ballasts for discharge lamps (excluding tubular fluorescent lamps)-Performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
KC 60927:2022	Lighting devices	Auxiliaries for lamps-Starting devices (other than glow starters)-Performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
KC 60929:2022	Lighting devices	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps-Performance requirements	1 000 V or less	N
KC 60968:2022	Lighting devices	Self-ballasted lamps for general lighting services-Safety requirements	250 V or less	N
KC 60969:2015	Lighting devices	Self-ballasted lamps for general lighting services-Performance requirements	250 V or less	N
KC 60983:2014	Lighting devices	Miniature lamps	250 V or less	N
K 61047:2008	Lighting devices	D.C. or A.C. supplied electronic step - down convertors for filament lamps - performance requirements	d.c. 250 V, a.c. 1 000 V or less	N
KC 61048:2015	Lighting devices	Auxiliaries for lamps-Capacitors for use in tubular fluorescent and other discharge lamp circuits-General and safety requirements	1 000 V or less	N
K 61049:2000	Lighting devices	Capacitors for use in tubular fluorescent and other discharge lamp circuits, performance requirements	1 000 V or less	N
KC 61050:2022	Lighting devices	Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 000 V (generally called neon-transformers)-General and safety requirements	15 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61126:2015	Lighting devices	Procedure for use in the preparation of maximum lamp outlines	size range in Annex	N
K 61127:2000	Lighting devices	High pressure xenon short arc lamps – dimensional, electrical and photometric data and cap types	1 000 V or less	N
KC 61167:2015	Lighting devices	Metal halide lamps-Performance specification	1 000 W or less	N
K 61184:2008	Lighting devices	Bayonet lampholders	250 V or less, B15d and B22d	N
KC 60598-2-9:2015	Lighting devices	Luminaires-Part 2:Particular requirementsSection 9:Photo and film luminaires (non-professional)	1 000 V or less	N
K 60630:2000	Lighting devices	Maximum lamp outlines for incandescent lamps	size range in Annex	N
K 60634:2000	Lighting devices	Heat test source (H.T.S.) lamps for carrying out heating tests on luminaires	H.T.S lamp	N
KC 60662:2015	Lighting devices	High-pressure sodium vapour lamps-Performance specifications	1 000 W or less	N
KC 60664-1:2015	Lighting devices	Insulation coordination for equipment within low-voltage systems-Part 1:Principles, requirements and tests	d.c. 1 500 V, a.c. 1 000V or less	N
KC 61195:2020	Lighting devices	Double-capped fluorescent lamps-Safety specifications	125 W or less	N
KC 61199:2020	Lighting devices	Single-capped fluorescent lamps-Safety specifications	100 W or less	N
KC 61228:2014	Lighting devices	Method of measuring and specifying the UV-radiation of ultraviolet lamps used for sun-tanning	200 nm ~ 1 000 nm	N
K 61231:2000	Lighting devices	International lamps coding system (ILCOS)	1 000 V or less	N
KC 61341:2015	Lighting devices	Method of measurement of centre beam intensity and beam angle(s) of reflector lamps	100 000 cd or less	N
KC 61347-1:2022	Lighting devices	Lamp controlgear-Part 1:General and safety requirements	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61347-2-1:2015	Lighting devices	Lamp controlgear-Part 2 - 1:Particular requirements for starting devices (other than glow starters)	1 000 V or less	N
K 61347-2-10:2009	Lighting devices	Lamp controlgear Part 2 - 10:Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps	1 000 V or less	N
KC 61347-2-2:2015	Lighting devices	Lamp controlgear-Part 2 - 2:Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps	1 000 V or less	N
KC 61347-2-3:2015	Lighting devices	Lamp controlgear-Part 2 - 3:Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	1 000 V or less	N
KC 61347-2-4:2015	Lighting devices	Lamp controlgear-Part 2-4:Particular requirements for d.c. supplied electronic ballasts for general lighting	1 000 V or less	N
KC 61347-2-5:2015	Lighting devices	Lamp controlgear-Part 2 - 5:Particular requirements for d.c. supplied electronic ballasts for public transport lighting	1 000 V or less	N
KC 61347-2-6:2015	Lighting devices	Lamp controlgear-Part 2 - 6:Particular requirements for d.c. supplied electronic ballasts for aircraft lighting	1 000 V or less	N
KC 61347-2-7:2015	Lighting devices	Lamp controlgear-Part 2 - 7:Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)	1 000 V or less	N
KC 61347-2-8:2012	Lighting devices	Lamp controlgear-Part 2 - 8:Particular requirements for ballasts for fluorescent lamps	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61347-2-9:202 2	Lighting devices	Lamp controlgear-Part 2 - 9:Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)	1 000 V or less	N
KC 61347-2-13:20 22	Lighting devices	Lamp controlgear-Part 2 - 13:Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	1 000 V or less	N
KC 61549:2014	Lighting devices	Miscellaneous lamps	refer to related data-sheet	N
KC 62031:2022	Lighting devices	LED modules for general lighting-Safety specifications	d.c. 250 V, a.c. 1 000 V or less	N
KC 62035:2020	Lighting devices	Discharge lamps (excluding fluorescent lamps)-Safety specifications	1 000 W or less	N
KC 62384:2014	Lighting devices	DC or AC supplied electronic control gear for LED modules-Performance requirements	1 000 V or less	N
KS C 4305:2014	Lighting devices	Luminous-tube transformers	15 000 V, 20 mA or less	N
KS C 7501:2019	Lighting devices	Incandescent lamps for general lighting service	250 V or less	N
KS C 7502:1985	Lighting devices	Lamp bulbs for motor vehicles	DC 24 V or less	N
KS C 7504:2020	Lighting devices	Small incandescent lamps for household use	250 V or less	N
KS C 7507:2001	Lighting devices	Lamps for railway	250 V or less	N
KS C 7514:2014	Lighting devices	Spot light and flood light lamps	250 V or less	N
KS C 7522:2020	Lighting devices	Neon glow lamps	250 V or less	N
KS C 7523:2014	Lighting devices	Tungsten halogen lamps(non-vehicle)	250 V or less	N
KS C 7524:2001	Lighting devices	Traffic signal lamps	250 V or less	N
KS C 7526:1989	Lighting devices	Ball lamps	250 V or less	N
KS C 7528:2020	Lighting devices	LED traffic signals	250 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 7601:2019	Lighting devices	Fluorescent lamps for general lighting service	220 W or less	N
KS C 7602:2002	Lighting devices	Glow starters for fluorescent lamps	250 V or less	N
KS C 7603:2020	Lighting devices	Lighting fittings for fluorescent lamps	1 000 V or less	N
KS C 7604:2019	Lighting devices	High pressure mercury vapour lamps	1 000 W or less	N
KS C 7605:2020	Lighting devices	Photometric measurement on standard fluorescent lamps	220 W or less	N
KS C 7606:2020	Lighting devices	Photometric measurement on standard mercury-arc lamps	1 000 W or less	N
KS C 7607:2014	Lighting devices	Metal halide lamps	1 000 W or less	N
KS C 7610:2019	Lighting devices	Sodium vapour Lamps	1 000 W or less	N
KS C 7614:1987	Lighting devices	Photometric measurements on incandescent lamps used for incandescent lamps used for photometric standards	250 V or less	N
KS C 7617:2003	Lighting devices	Neon tubings	1 000 V or less	N
KS C 7619:1979	Lighting devices	Photometric measurement on mirror-condenser lamps for projector	250 V or less	N
KS C 7620:2003	Lighting devices	Luminaries for fluorescent lamps for use in railway vehicles	250 V or less	N
KS C 7621:2020	Lighting devices	Self ballasted lamps	60 W or less	N
KS C 7631:1998	Lighting devices	Electronic starters for fluorescent lamps	250 V or less	N
KS C 7651:2022	Lighting devices	Self-ballasted LED lamps	60 W or less	N
KS C 7652:2022	Lighting devices	Non-ballasted LED lamps	30 W or less	N
KS C 7653:2021	Lighting devices	Recessed LED luminaires and fixed LED luminaires	300 W or less	N
KS C 7655:2021	Lighting devices	DC or AC supplied electronic control gear for LED modules	300 W or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 7656:2021	Lighting devices	Portable LED/OLED luminaires	300 W or less	N
KS C 7657:2021	Lighting devices	LED sensor luminaires Safety and performance requirements	300 W or less	N
KS C 7658:2021	Lighting devices	LED luminaires for road and street lighting-Safety and performance requirements	600 W or less	N
KS C 7659:2013	Lighting devices	LED module for channel letter signs-Safety and performance requirements	DC 50 V or less	N
KS C 7702:2019	Lighting devices	Lamp caps and holders	250 V or less	N
KS C 7703:2020	Lighting devices	Lampholders and starterholders for fluorescent lamps	1 000 V or less	N
KS C 7704:2020	Lighting devices	Glass tubing for fluorescent lamps	220 W or less	N
KS C 7705:1989	Lighting devices	Desingation method for glass bulbs of lamps	250 V or less	N
KS C 7706:1968	Lighting devices	Designation methods for filament of incandescent tungsten lamps	250 V or less	N
KS C 7708:1989	Lighting devices	General rules of testing method for lamps	250 V or less	N
KS C 8000:1992	Lighting devices	Luminaires	1 000 V or less	N
KS C 8010:2014	Lighting devices	Luminaries for road lighting	600 V or less	N
KS C 8013:2019	Lighting devices	A.C. supplied electronic ballasts for discharge lamp	1 000 V or less	N
KS C 8100:2020	Lighting devices	A.C. supplied electronic ballasts for fluorescent lamps	1 000 V or less	N
KS C 8102:2021	Lighting devices	Magnetic ballasts for fluorescent lamps	1 000 V or less	N
KS C 8103:2007	Lighting devices	Table study lamps for fluorescent lamps	1 000 V or less	N
KS C 8104:2020	Lighting devices	Ballasts for high pressure mercury vapour lamps	1 000 V or less	N
KS C 8105:1985	Lighting devices	Hand lanterns	250 V or less	N
KS C 8108:2018	Lighting devices	Ballasts for sodium vapour lamps	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8109:2018	Lighting devices	Ballasts for metalhalide lamps	1 000 V or less	N
KS C 8302:2014	Lighting devices	Edison screw lampholders	600 V or less	N
KS C 8315:1990	Lighting devices	Rosett	250 V or less	N
KS C IEC 60064:2003	Lighting devices	Tungsten filament lamps for domestic and similar general lighting purposes-performance requirements	250 V or less	N
KS C IEC 60081:2017	Lighting devices	Double-capped fluorescent lamps-performance specifications	125 W or less	N
KS C IEC 60155:2002	Lighting devices	Glow-starters for fluorescent lamps	250 V or less	N
KS C IEC 60188:2002	Lighting devices	Low-pressure sodium vapour lamps - performance specifications	1 000 W or less	N
KS C IEC 60192:2002	Lighting devices	High-pressure mercury vapour lamps - Performance specifications	1 000 W or less	N
KS C IEC 60216-1:2013	Lighting devices	Electrical insulating materials-properties of thermal endurance-Part 1:ageing procedures and evaluation of test results	-	N
KS C IEC 60238:2002	Lighting devices	Edison screw lampholders	250 V or less	N
KS C IEC 60249-1-A:2014	Lighting devices	Base materials for printed circuits-Part 1:test methods	-	N
KS C IEC 60357:2003	Lighting devices	Tungsten halogen lamps (non vehicle)-performance specifications	250 V or less	N
KS C IEC 60400:2002	Lighting devices	lampholders for tubular fluorescent lamps and starterholders	1000 V or less	N
KS C IEC 60432-1:2002	Lighting devices	Incandescent lamps-safety specifications-Part 1:tungsten filament lamps for domestic and similar general lighting purposes	250 V or less	N
KS C IEC 60432-2:2002	Lighting devices	Incandescent lamps-safety specifications-Part 2:tungsten-halogen lamps for domestic and similar general lighting purposes	250 V or less	N
KS C IEC 60529:2017	Lighting devices	Degrees of protection provided by enclosures (IP Code)	IP 68 or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60570:2017	Lighting devices	Electrical supply-track systems for luminaires	class 1 440 V, class 3 25 V or less	N
KS C IEC 60598-1:2020	Lighting devices	Luminaires-Part 1:general requirements	1 000 V or less	N
KS C IEC 60598-2-1:2020	Lighting devices	Luminaires-Part 2:Particular requirements-Section 1:Fixed general purpose luminaires	1 000 V or less	N
KS C IEC 60598-2-17:2017	Lighting devices	Luminaires-Part 2:Particular requirements.-Section Seventeen:luminaires for stage lighting, television and film studios (outdoor and indoor)	1 000 V or less	N
KS C IEC 60598-2-18:2015	Lighting devices	Luminaires-Part 2:Particular requirements-Section 18:luminaires for swimming poolsand similar applications	1 000 V or less	N
KS C IEC 60598-2-19:2003	Lighting devices	Luminaires-Part 2:Particular requirements.-Section nineteen:air-handing luminaires (safety requirements)	1 000 V or less	N
KS C IEC 60598-2-2:2020	Lighting devices	Luminaires-Part 2:Particular requirements and tests - Section 2:recessed luminaires	1 000 V or less	N
KS C IEC 60598-2-20:2014	Lighting devices	Luminaires-Part 2 - 20:Particular requirements-lighting chains	1 000 V or less	N
KS C IEC 60598-2-22:2017	Lighting devices	Luminaires-Part 2 - 22:Particular requirements-luminaires for emergency lighting	1 000 V or less	N
KS C IEC 60598-2-23:2003	Lighting devices	Luminaires-Part 2 - 23:Particular requirements-Extra low voltage lighting systems for filament lamps	1 000 V or less	N
KS C IEC 60598-2-24:2015	Lighting devices	Luminaires-Part 2 - 24:Particular requirements-Luminaires with limited surface temperatures	1 000 V or less	N
KS C IEC 60598-2-25:2015	Lighting devices	Luminaires-Part 2:Particular requirements-Section 25:luminaires for use in clinical areas of hospitals and health care buildings	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60598-2-3:2014	Lighting devices	Luminaires-Part 2 - 3:Particular requirements-luminaires for road street lighting	1 000 V or less	N
KS C IEC 60598-2-4:2017	Lighting devices	Luminaires-Part 2 - 4:Particular requirements-Portable general purpose luminaires	1 000 V or less	N
KS C IEC 60598-2-5:2015	Lighting devices	Luminaires-Part 2 - 5:Particular requirements and floodlights	1 000 V or less	N
KS C IEC 60598-2-8:2013	Lighting devices	luminaires-Part 2 - 8:Particular requirements-hand lamps	1 000 V or less	N
KS C IEC 60662:2014	Lighting devices	High-pressure sodium vapour lamps	1 000 W or less	N
KS C IEC 60664-1:2014	Lighting devices	Insulation coordination for equipment within low-voltage systems-Part 1:principles, requirements and tests	d.c. 1 500 V, a.c. 1 000 V or less	N
KS C IEC 60682:2001	Lighting devices	Standard method of measuring the pinch temperature of quartz - tungsten-halogen lamps	300 °C or less	N
KS C IEC 60691:2019	Lighting devices	Thermal - links-requirements and application guide	a.c. 600 V, 400 A or less	N
KS C IEC 60730-2-3:2006	Lighting devices	Automatic electrical controls for household and similar use-Part 2 - 3:Particular requirements forthermal protectors for ballasts for tubularfluorescent lamps	660 V, 63 A or less	N
KS C IEC 60838-1:2014	Lighting devices	Miscellaneous lampsholders-Part 1:general requirements and tests	1 000 V or less	N
KS C IEC 60838-2-1:2004	Lighting devices	Miscellaneous lampholders-Part 2:Particular requirements-Section 1:lampsholders S14	1 000 V or less	N
KS C IEC 60838-2-2:2015	Lighting devices	Miscellaneous lampholders Part 2 - 2:Particular requirements Connectors for LED-modules	1 000 V or less	N
KS C IEC 60901:2014	Lighting devices	Single-capped fluorescent lamps - performance specifications	100 W or less	N
KS C IEC 60921:2008	Lighting devices	Ballastsfortubular fluorescent lamps. performance requirements	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60923:2008	Lighting devices	Auxiliaries for lamps-ballasts for discharge lamps (excluding tubular fluorescent lamps)-performance requirements	1 000 V or less	N
KS C IEC 60927:2008	Lighting devices	A.C. supplied electronic ballasts for tubular fluorescent lamps-performance requirements	50 Hz or 60 Hz, 1 000 V or less	N
KS C IEC 60929:2015	Lighting devices	A.C. supplied electronic ballasts for tubular fluorescent lamps-performance requirements	1 000 V or less	N
KS C IEC 60968:2015	Lighting devices	Self-ballasted lamps for general lightingservices-safety requirements	250 V or less	N
KS C IEC 60969:2002	Lighting devices	Self-ballasted lamps for general lightingservices--performance requirements	250 V or less	N
KS C IEC 60983-A:2014	Lighting devices	Miniature lamps	250 V or less	N
KS C IEC 61047:2014	Lighting devices	D.C. or A.C. supplied electronic step - down convertors for filament lamps - performance requirements	d.c. 250 V, a.c. 1 000 V or less	N
KS C IEC 61048:2008	Lighting devices	Auxiliaries for lamps - capacitors for use in tubular fluorescent and other discharge lamps circuit - General and safety requirements	1 000 V or less	N
KS C IEC 61049-A:2014	Lighting devices	Auxiliaries for lamps-Capacitors for use in tubular fluorescent and other discharge lamp circuits-Performance requirements	1 000 V or less	N
KS C IEC 61050:2002	Lighting devices	Transformers for tubular discharge lamps having a on-load output volt exceeding 1000V(generally called neon transformers) general and safe requirements	15 000 V or less	N
KS C IEC 61126:2003	Lighting devices	Procedure for use in the preparation of maximum lamp outlines	size range in Annex	N
KS C IEC 61167:2014	Lighting devices	Standard method of measuring the pinchttemperature of quartz - tungsten-halogen lamps	1 000 W or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61184:2017	Lighting devices	Bayonet lampholders	250 V, B15d and B22d	N
KS C IEC 61195:2002	Lighting devices	Double-capped fluorescent lamps - safety specifications	125 W or less	N
KS C IEC 61199:2012	Lighting devices	single-capped fluorescent lamps-safety specifications	100 W or less	N
KS C IEC 61228-A:2014	Lighting devices	Method of measuring and specifying the UV-radiation of ultraviolet lamps used for sun-tanning	200 nm ~ 1 000 nm	N
KS C IEC 61341:2014	Lighting devices	Method of measurement of centre beam intensive and beam angle of reflector lamps	100 000 cd or less	N
KS C IEC 61347-1:2020	Lighting devices	Lamp controlgear-Part 1:general and safety requirements	1 000 V or less	N
KS C IEC 61347-2-1:2002	Lighting devices	Lamp controlgear-Part 2 - 1:Particular requirements for starting devices (other than glow starter)	1 000 V or less	N
KS C IEC 61347-2-10:2014	Lighting devices	Lamp controlgear-Part 2 - 10:Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps	1 000 V or less	N
KS C IEC 61347-2-11:2002	Lighting devices	Lamp controlgear-Part 2 - 11:Particular requirements for miscellaneous electronic circuits used with luminaires	1 000 V or less	N
KS C IEC 61347-2-13:2018	Lighting devices	Lamp controlgear-Part 2 - 13:Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	1 000 V or less	N
KS C IEC 61347-2-2:2002	Lighting devices	Lamp controlgear-Part 2 - 2:Particular requirements for D.C or A.C supplied electronic step-down convertors for filament lamps	1 000 V or less	N
KS C IEC 61347-2-3:2014	Lighting devices	Lamp controlgear-Part 2 - 3:Particular requirements for A.C. supplied electronic ballasts for fluorescent lamps	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61347-2-7:2017	Lighting devices	Lamp controlgear-Part 2 - 7:Particular requirements for D.C supplied electronic ballasts for public transport lighting	1 000 V or less	N
KS C IEC 61347-2-8:2008	Lighting devices	Lamp controlgear-Part 2 - 8:Particular requirements for ballasts for fluorescent lamps	1 000 V or less	N
KS C IEC 61347-2-9:2012	Lighting devices	Lamp controlgear-Part 2 - 9:Particular requirements for ballasts for discharge lamps (excluding fluorescent lamp)	1 000 V or less	N
KS C IEC 61549-A:2014	Lighting devices	Miscellaneous lamps	250 V or less	N
KS C IEC 62035:2002	Lighting devices	Discharge Lamps (Excluding Fluorescent Lamps)-Safety Specifications	1 000 W or less	N
KS P 6202:2017	Lighting devices	Shadowless lamp	1 000 V or less	N
KS C IEC 62031:2018	Lighting devices	LED modules for general lighting-Safety specifications	d.c. 250 V, a.c. 1 000 V or less	N
KS C IEC 62384:2011	Lighting devices	DC or AC supplied electronic control gear for LED modules Performance requirements	1 000 V or less	N
KS V 8448:2014	Lighting devices	Marine fluorescent lights — Wall type(non-watertight)/ ceiling type(non-watertight/watertight)	-	N
IEC 62471:2006	Lighting devices	Photobiological safety of lamps and lamp systems	wavelength:(250 ~ 1 600) nm	N
IEC/TR 62471-2:2009	Lighting devices	Photobiological safety of lamps and lamp systems-Part 2:Guidance on manufacturing requirements relating to non-laser optical radiation safety	wavelength: (250 ~ 1 600) nm	N
K 10021:2021	Lighting devices	Tublar LED lamps of Luminaires-Safety requirements	1 000 V or less	N
KC 20001:2015	Lighting devices	Tublar LED lamps using external converter-Safety and Performance Requirements	lamp used G13 and D12 base	N
K 20002:2010	Lighting devices	Tublar LED lamps using (external) convertor lampholder	D12 holder	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
K 61347-2-12:20 22	Lighting devices	Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)	1 000 V or less	N
KC 60598-2-5:201 5	Lighting devices	Luminaires Part 2-5:Particular requirements-Floodlights	1 000 V or less	N
KS C 7711:2021	Lighting devices	LED ground recessed luminaires	1 000 V or less	N
KS C 7712:2021	Lighting devices	LED flood-lighting luminaire	1 000 V or less	N
KS C 7713:2021	Lighting devices	LED landscape lighting	1 000 V or less	N
KS A 7715:2021	Lighting devices	LED pavement marker	DC 50 V or less	N
KS C 7716:2021	Lighting devices	LED tunnel luminaires	1 000 V or less	N
KS C 7717:2021	Lighting devices	LED crosswalk luminaires	1 000 V or less	N
KS C 7719:2020	Lighting devices	LED handlamps	DC 50 V or less	N
KC 10023:2022	Lighting devices	Self-ballasted LED lamps for general lighting services	250 V or less	N
KC 10025:2022	Lighting devices	LED Lamp for Fluorescent Lamp Retrofit-Internal converter type	40 W or less	N
K 10006:2006	Lighting devices	Safety requirements for induction lamps of PLS type	1 000 V or less	N
KC 10030:2019	Lighting devices	LED Luminaires System - Safety Requirements	1 000 W or less	N
CIE 150:2017	Lighting devices	Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations, 2nd Edition	1 000 V or less	N
CIE 117:1995	Lighting devices	DISCOMFORT GLARE IN INTERIOR LIGHTING	1 000 V or less	N
EN 62471:2008	Lighting devices	Photobiological safety of lamps and lamp systems	Wavelength: (250 ~ 1 600) nm	N
IEC TR 62778:2014	Lighting devices	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires	1 000 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.009 Lighting devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC TR 62778:2014	Lighting devices	Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires	Wavelength:(300 ~ 1 400) nm	N
KNPA, Traffic Operations Division-641 (03.29.2019.)	Lighting devices	Standard Guidelines for Floor-Type Walking Traffic Light Assistive Devices	Wavelength:(300 ~ 1 400) nm	N
IEC 62560:2011+A MD1:2015	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	250 V or less	N
KS C IEC 62560:2020	Lighting devices	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	250 V or less	N
KATS Notice No. 2021-0226 (08.03.2021.)	Lighting devices	Safety Confirmation safety standards Annex 74 Cosmetic Devices - Part 1 LED Mask Type Device	irradiance : (250 ~ 1 600) nm radiance : (300 ~ 1 400) nm	N
KATS Notice No. 2021-0226 (08.03.2021.)	Lighting devices	Safety Confirmation safety standards Annex 74 Cosmetic Devices - Part 2 Scalp Care Device - Part 3 Eye Massager - Part 4 Plasma Skin Care Device	Wavelength : (250 ~ 1 600) nm Temperature : 200 °C or less	N
IEC PAS 63313:2021	Lighting devices	Position statement on germicidal UV-C irradiation - UV-C safety guidelines	irradiance : (250 ~ 1 600) nm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
BS EN 60601-1:2014	Medical devices	Medical electrical equipment. General requirements for basic safety and essential performance	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1:2005	Medical devices	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-1:2012	Medical devices	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-1:2020	Medical devices	Medical electrical equipment - Part 1 : General requirements for basic safety and essential performance	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-1:2020	Medical devices	Medical electrical equipment - Part 1:General requirements for basic safety and essential performance	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-10:2012	Medical devices	Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-2-10:2016	Medical devices	Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-22:2012	Medical devices	Medical electrical equipment - Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-22:2019	Medical devices	Medical electrical equipment - Part 2-22 : Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-2-22:2019	Medical devices	Medical electrical equipment - Part 2-22:Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1-3:2008	Medical devices	Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-1-3:2021	Medical devices	Medical electrical equipment - Part 1-3 : General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-1-3:2013	Medical devices	Medical electrical equipment - Part 1-3:General requirements for basic safety and essential performance - Collateral Standard:Radiation protection in diagnostic X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-1-8:2006	Medical devices	Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-2:2009	Medical devices	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-2-2:2017	Medical devices	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-5:2009	Medical devices	Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-25:2011	Medical devices	Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-26:2012	Medical devices	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 80601-2-26:2019	Medical devices	Medical electrical equipment - Part 2-26 : Particular requirements for the basic safety and essential performance of electroencephalograph	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-27:2011	Medical devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-2-27:2011	Medical devices	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 80601-2-30:2009	Medical devices	Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 80601-2-30:2018	Medical devices	Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-37:2007	Medical devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-2-37:2015	Medical devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-43:20 10	Medical devices	Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-43:20 17	Medical devices	Medical electrical equipment - Part 2 - 43 : Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-43:20 19	Medical devices	Medical electrical equipment - Part 2 - 43 : Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-2-43:20 17	Medical devices	Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-44:20 09	Medical devices	Medical electrical equipment - Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-2-44:20 16	Medical devices	Medical electrical equipment - Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-45:20 11	Medical devices	Medical electrical equipment - Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-45:20 15	Medical devices	Medical electrical equipment - Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-2-45:20 15	Medical devices	Medical electrical equipment - Part 2-45: Particular requirements for basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-49:20 11	Medical devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 80601-2-49:20 18	Medical devices	Medical electrical equipment - Part 2 - 49 : Particular requirements for the basic safety and essential performance of multifunction patient monitors	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 80601-2-49:20 18	Medical devices	Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-54:20 09	Medical devices	Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-54:20 15	Medical devices	Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-54:20 18	Medical devices	Medical electrical equipment - Part 2 - 54 : Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-2-54:20 18	Medical devices	Medical electrical equipment - Part 2-54:Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
ISO 80601-2-61:20 11	Medical devices	Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
ISO 80601-2-61:20 17	Medical devices	Medical electrical equipment - Part 2 - 61 : Particular requirements for basic safety and essential performance of pulse oximeter equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C ISO 80601-2-61:20 17	Medical devices	Medical electrical equipment - Part 2-61:Particular requirements for basic safety and essential performance of pulse oximeter equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-62:20 13	Medical devices	Medical electrical equipment - Part 2-62: Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-63:20 12	Medical devices	Medical electrical equipment - Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-63:20 17	Medical devices	Medical electrical equipment - Part 2 -63 : Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-63:20 21	Medical devices	Medical electrical equipment - Part 2 -63 : Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-65:20 12	Medical devices	Medical electrical equipment - Part 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-65:20 17	Medical devices	Medical electrical equipment - Part 2 - 65 : Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-65:20 21	Medical devices	Medical electrical equipment - Part 2 - 65 : Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
MFDS Notice No.2015-115 (12.31.2015.)	Medical devices	Common Standards and Specifications on Electromechanical · Biological Safety of Medical Devices [Annex 1~9]	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1-3: 2013	Medical devices	Medical electrical equipment - Part 1-3:General requirements for basic safety and essential performance-Collateral Standard:Radiation protection in diagnostic X-ray equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
KS C IEC 60601-1-6: 2013	Medical devices	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-1-6: 2020	Medical devices	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1-6: 2010	Medical devices	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1-6: 2013	Medical devices	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-1-6: 2020	Medical devices	Medical electrical equipment - Part 1 - 6 : General requirements for basic safety and essential performance - Collateral standard: Usability	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1-8: 2012	Medical devices	Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1-8: 2020	Medical devices	Medical electrical equipment - Part 1 - 8 : General requirements for basic safety and essential performance - Collateral standard : General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-1-8: 2020	Medical devices	Medical electrical equipment - Part 1-8 : General requirements for basic safety and essential performance - Collateral standard : General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-1-11: 2015	Medical devices	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-1-11: 2020	Medical devices	Medical electrical equipment - Part 1 - 11 : General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-1-11: 2015	Medical devices	Medical electrical equipment - Part 1-11:General requirements for basic safety and essential performance-Collateral Standard:Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-1-11: 2020	Medical devices	Medical electrical equipment - Part 1-11:General requirements for basic safety and essential performance-Collateral Standard:Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-2:201 7	Medical devices	Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-4:201 0	Medical devices	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-4:201 8	Medical devices	Medical electrical equipment - Part 2 - 4 : Particular requirements for the basic safety and essential performance of cardiac defibrillators	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-2-5:201 1	Medical devices	Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-10:20 16	Medical devices	Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-18:20 09	Medical devices	Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-24:20 12	Medical devices	Medical electrical equipment - Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-28:20 10	Medical devices	Medical electrical equipment - Part 2-28: Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
KS C IEC 60601-2-28:20 17	Medical devices	Medical electrical equipment - Part 2-28: Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 80601-2-30:20 13	Medical devices	Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated type non-invasive sphygmomanometers	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 80601-2-30:20 18	Medical devices	Medical electrical equipment - Part 2 - 30 : Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-33:20 15	Medical devices	Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 80601-2-35:20 16	Medical devices	Medical electrical equipment - Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60601-2-36:20 14	Medical devices	Medical electrical equipment - Part 2-36: Particular requirements for the basic safety and essential performance of equipment for extracorporeally induced lithotripsy	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-36:20 14	Medical devices	Medical electrical equipment - Part 2-36: Particular requirements for the basic safety and essential performance of equipment for extracorporeally induced lithotripsy	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-37:20 15	Medical devices	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 60601-2-40:20 16	Medical devices	Medical electrical equipment - Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-41:20 13	Medical devices	Medical electrical equipment - Part 2-41: Particular requirements for the basic safety and essential performance of surgical luminaires and luminaires for diagnosis	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-44:20 16	Medical devices	Medical electrical equipment - Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-52:20 15	Medical devices	Medical electrical equipment - Part 2-52: Particular requirements for the basic safety and essential performance of medical beds	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
ISO 80601-2-56:20 17	Medical devices	Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
ISO 80601-2-56:20 18	Medical devices	Medical electrical equipment - Part 2 - 56 : Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-57:20 11	Medical devices	Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 80601-2-60:20 12	Medical devices	Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 80601-2-60:20 19	Medical devices	Medical electrical equipment - Part 2 - 60 : Particular requirements for basic safety and essential performance of dental equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-2-66:20 15	Medical devices	Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing instruments and hearing instrument systems	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 60601-2-66:20 19	Medical devices	Medical electrical equipment - Part 2 - 66 : Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
ISO 80601-2-69:20 14	Medical devices	Medical electrical equipment - Part 2-69: Particular requirements for basic safety and essential performance of oxygen concentrator equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
ISO 80601-2-69:20 20	Medical devices	Medical electrical equipment - Part 2 - 69 : Particular requirements for basic safety and essential performance of oxygen concentrator equipment	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	Y
IEC 62366:2007	Medical devices	Medical devices - Application of usability engineering to medical devices	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 62366:2014	Medical devices	Medical devices - Application of usability engineering to medical devices	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 62366-1:2015	Medical devices	Medical devices - Part 1: Application of usability engineering to medical devices	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N
IEC 62366-1:2020	Medical devices	Medical devices - Part 1: Application of usability engineering to medical devices	(d.c. / a.c.) 250 V or less multiphase and other 500 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.010 Medical Devices

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62304:2006+AM D1:2015	Medical devices	Medical device software-Software life cycle processes	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
RRA Notice No. 2021-10 (06.28.2021.)	Wired/Wireless communication devices	Immunity measuring apparatus	Electromagnetic waves suitability registration	N
KS X 3124:2020	Wired/Wireless communication devices	Test method for common electromagnetic compatibility of radio equipment	CE:9 kHz ~ 30 MHz RE:9kHz~18GHz ESD:± 8kV RS:80MHz~6GHz EFT:± 4kV Surge:± 4kV CS:150kHz~230MHz z M/F:30A/mV-DIP:(0~100)%	N
KS X 3126:2020	Wired/Wireless communication devices	Test methods for electromagnetic compatibility of specific small-output radio devices for radio data communication systems	CE:9 kHz ~ 30 MHz RE:9kHz~18GHz ESD:± 8kV RS:80MHz~6GHz EFT:± 4kV Surge:± 4kV CS:150kHz~230MHz z M/F:30A/mV-DIP:(0~100)%	N
EN 301 489-1:2019	Wired/Wireless communication devices	Electromagnetic compatibility and Radio spectrum Matters (ERM) ; ElectroMagnetic Compatibility(EMC) standard for radio equipment and services ; Part 1:Common technical requirements	CE:9 kHz ~ 30 MHz RE:9kHz~18GHz ESD:± 8kV RS:80MHz~6GHz EFT:± 4kV Surge:± 4kV CS:150kHz~230MHz z M/F:30A/mV-DIP:(0~100)%	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 301 489-7:2005	Wired/Wireless communication devices	Electromagnetic compatibility and Radio spectrum Matters(ERM) ; ElectroMagnetic Compatibility (EMC) standard for radio equipment and services ; Part 7:Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	CE:9 kHz ~ 30 MHz RE:9kHz~18GHz ESD: ± 8kV RS:80MHz~6GHz EFT: ± 4kV Surge: ± 4kV CS:150kHz~230MHz z M/F:30A/mV-DIP:(0 ~ 100)%	N
EN 301 489-17:2020	Wired/Wireless communication devices	Electromagnetic compatibility and Radio spectrum Matters (ERM) ; ElectroMagnetic Compatibility (EMC) standard for radio equipment ; Part 17:Specific conditions for Broadband Data Transmission Systems	CE:9 kHz ~ 30 MHz RE:9kHz~18GHz ESD: ± 8kV RS:80MHz~6GHz EFT: ± 4kV Surge: ± 4kV CS:150kHz~230MHz z M/F:30A/mV-DIP:(0 ~ 100)%	N
EN 301 489-24:2010	Wired/Wireless communication devices	Electromagnetic compatibility and Radio spectrum Matters (ERM) ; ElectroMagnetic Compatibility (EMC) standard for radio equipment and services ; Part 24:Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	CE:9 kHz ~ 30 MHz RE:9kHz~18GHz ESD: ± 8kV RS:80MHz~6GHz EFT: ± 4kV Surge: ± 4kV CS:150kHz~230MHz z M/F:30A/mV-DIP:(0 ~ 100)%	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
AS CISPR 14.1:2018	Electrical machinery for households	Electromagnetic compatibility(EMC) Requirementsfor household appliances, electric tools andsimilar apparatus-Part 1:Emission	CE:(0.148 5 ~ 30) MHz RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.148 5 ~ 30) MHz RE:(0.03 ~ 1) GHz	N
AS CISPR 15:2017	Lighting devices	Limits and methods of measurement of radiodisturbance characteristics of electrical lightingand similar equipment	CE:(0.009 ~ 30) MHz RE:(0.009 ~ 300) MHz	N
CFR 47 Part 15:2021	Wired/Wireless communication devices	Radio Frequency Device Subpart B-Unintentional Radiators	CE:(0.15 ~ 30) MHz RE:(0.03~18)GHz	N
CFR 47 Part 18:2018	Electrical machinery for industries, Medical devices	Industrial, scientific and medical equipment Exception:over 18GHz	-	N
CISPR 11:2019	Electrical machinery for industries, Electrical machinery for households, Medical devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics-Limits and methods of measurement	frequency: CE:(0.009 ~ 30) MHz RE:(0.03 ~ 18) GHz [exception] 30m	N
CISPR 14-1:2016	Electrical machinery for households	Electromagnetic compatibility(EMC) Requirementsfor household appliances, electric tools andsimilar apparatus-Part 1:Emission	frequency: RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.148 5 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.148 5 ~ 30) MHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
CISPR 14-1:2020	Electrical machinery for households	Electromagnetic compatibility(EMC) Requirements for household appliances, electric tools and similar apparatus-Part 1:Emission	frequency: RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.148 5 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.148 5 ~ 30) MHz	N
CISPR 16-1-1:2019	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-1:Radio disturbance and immunity measuring apparatus-Measuring apparatus	frequency:9 kHz ~ 18 GHz	N
CISPR 16-1-2:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-2:Radio disturbance and immunity measuring apparatus-Ancillary equipment-Conducted disturbances	frequency: 9 kHz ~ 1 GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
CISPR 16-1-3:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-3:Radio disturbance and immunity measuring apparatus-Ancillary equipment-Disturbance power	frequency: (0.03 ~ 1) GHz	N
CISPR 16-1-4:2019	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-4:Radio disturbance and immunity measuring apparatus-Ancillary equipment-Radiated disturbances	frequency: 9 kHz ~ 18 GHz	N
CISPR 16-2-1:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2-1:Methods of measurement of disturbances and immunity-Conducted disturbance measurements	frequency: (0.009 ~ 30) MHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
CISPR 16-2-2:2010	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2-2:Methods of measurement of disturbances and immunity-Measurement of disturbance power	frequency: (0.03 ~ 1) GHz	N
CISPR 16-2-3:2019	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2 - 3:Methods of measurement of disturbances and immunity-Radiated disturbance measurements	frequency: 9 kHz ~ 18 GHz	N
CISPR 16-2-4:2003	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 2 - 4:Methods of measurement of disturbances and immunity-Immunity measurements	frequency: 9 kHz ~ 18 GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
CISPR 16-4-2:2018	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 4 - 2:Uncertainty, statistics and limit modeling-Uncertainties in EMC measurements	frequency: 9 kHz ~ 18 GHz	N
CISPR 14-2:2008	Electrical machinery for households	Electromagnetic compatibility(EMC) Amendment 2-Electromagnetic compatibility-Requirements for household appliances, electric tools and similar apparatus-Part 2:Immunity-Product family standard	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV SURGE:±(0.5 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16 A per phase	N
CISPR 14-2:2015	Electrical machinery for households	Electromagnetic compatibility(EMC) Amendment 2-Electromagnetic compatibility-Requirements for household appliances, electric tools and similar apparatus-Part 2:Immunity-Product family standard	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV SURGE:±(0.5 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
CISPR 14-2:2020	Electrical machinery for households	Electromagnetic compatibility(EMC) Amendment 2-Electromagnetic compatibility-Requirements for household appliances, electric tools and similar apparatus-Part 2:Immunity-Product family standard	Test level:ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV SURGE:±(0.5 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16A per phase	N
CISPR 15:2018	Lighting devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	frequency CE:(0.009 ~ 30) MHz RE:(0.009 ~ 1000) MHz	N
CISPR 32:2015	Wired/Wireless communication devices	Electromagnetic compatibility of multimedia equipment-Emission requirements	frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz	N
CISPR 32:2019	Wired/Wireless communication devices	Electromagnetic compatibility of multimedia equipment-Emission requirements	frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz	N
CISPR 35:2016	Wired/Wireless communication devices	Electromagnetic compatibility of multimedia equipment-Immunity requirements	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 4) kV CS:(0.15 ~ 230) MHz PFM:(3 ~ 30) A/m V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 55011:2021	Electrical machinery for industries, Electrical machinery for households, Medical devices	Industrial, scientific & medical(ISM) radio-frequency equipment-Electromagnetic disturbance characteristics-Limits and methods of measurement	CE:(0.009 ~ 30) MHz RE:(0.030 ~ 18) GHz [exception] 30 m test method	N
EN 55014-1:2017	Electrical machinery for households	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Emission	RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.1485 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.148 5 ~ 30) MHz	N
EN IEC 55014-1:2021	Electrical machinery for households	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Emission	RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.1485 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.148 5 ~ 30) MHz	N
EN 55014-2:2015	Electrical machinery for households	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Immunity. Product family standard	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN IEC 55014-2:2021	Electrical machinery for households	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Immunity. Product family standard	Test level: ESD: $\pm(4 \sim 8)$ kV RS:(0.08 ~ 1) GHz EFT: $\pm(0.5 \sim 1)$ kV Surge: $\pm(0.5 \sim 2)$ kV CS:(0.15 ~ 230) MHz V-DIP: not more than 16A per phase	N
EN IEC 55015:2020	Lighting devices	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	CE:(0.009 ~ 30) MHz RE:(0.009 ~ 1000) MHz	N
BS EN 50130-4:2014	Wired/Wireless communication devices	Alarm Systems-Part 4:Electromagnetic Compatibility-Product family standard:Immunity requirements of fire, intruder and social alarm systems	Test level: ESD: $\pm(1 \sim 30)$ kV RS:(0.08 ~ 2.7) GHz EFT: $\pm(0.5 \sim 1)$ kV Surge: $\pm(0.5 \sim 2)$ kV CS:(0.15 ~ 230) MHz PFM:(3 ~ 30) A/m V-DIP: not more than 16A per phase	N
EN 60601-1-2:2007	Medical electrical equipment	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Electromagnetic compatibility. Requirements and tests	CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz Test level: ESD: $\pm(6 \sim 8)$ kV RS:(0.08 ~ 2.5) GHz EFT: $\pm(1 \sim 2)$ kV Surge: $\pm(1 \sim 2)$ kV CS:(0.15 ~ 80) MHz M/F:(0 ~ 3) A/m V-DIP: not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 60601-1-2:201 5	Medical electrical equipment	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral standard. Electromagnetic compatibility. Requirements and tests	CE:(0.15 ~ 30) MHz RE:(0.03~6)GHz ESD:±(2~15)kV RS:(0.08~6)GHz EFT:±(0.25~4)kV Surge:±(0.5~2)kV CS:(0.009~80)MHz M/F:(1~100)A/m V-DIP:16 A or less per phase	N
EN 61000-3-11:20 00	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems. Equipment with rated voltage current ≤ 75 A and subject to conditional connection	a.c. input current:16 A ~ 75 A	N
EN IEC 61000-3-11:20 19	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems. Equipment with rated voltage current ≤ 75 A and subject to conditional connection	a.c. input current:16 A ~ 75 A	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-3-2:201 9	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current \leq 16 A per phase)	a.c. 16 A or less harmonic current emissions test	N
EN IEC 61000-3-2:202 1	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current \leq 16 A per phase)	a.c. 16 A or less harmonic current emissions test	N
EN 61000-3-3:201 3	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	a.c. 16 A or less harmonic current emissions test	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-3-3:201 9	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase and not subject to conditional connection	a.c. 16 A or less harmonic current emissions test	N
EN 61000-4-1:200 7	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Overview of IEC 61000-4 series	EN 61000-4 series	N
EN 61000-4-10:20 17	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Damped oscillatory magnetic field immunity test. Basic EMC publication	(0.03 ~ 10) MHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN IEC 61000-4-11:20 20	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Voltage dips, short interruptions and voltage variations immunity tests	a.c. 16 A or less harmonic current emissions test	N
EN 61000-4-12:20 17	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Ring wave immunity test	voltage:(0.25 ~ 6) kV	N
EN 61000-4-13:20 16	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	Test for harmonics, inter harmonics and low frequency	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-4-2:2009	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Electrostatic discharge immunity test	$\pm(2 \sim 15)$ kV	N
EN IEC 61000-4-3:2000	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Radiated, radio-frequency, electromagnetic field immunity test	(0.08 ~ 6) GHz, (1 ~ 10) V/m	N
EN 61000-4-4:2012	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Electrical fast transient/burst immunity test	$\pm(0.25 \sim 4)$ KV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-4-5:201 7	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Surge immunity test	Surge : $\pm(0.5 \sim 6)$ kV	N
EN 61000-4-6:201 5	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Immunity to conducted disturbances, induced by radio-frequency fields	(0.009 ~ 80) MHz (1 ~ 10) V/m	N
EN 61000-4-7:200 9	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques . General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	General guidelines for measuring harmonics and interharmonics and instruments	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-4-8:2010	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Power frequency magnetic field immunity test	(1 ~ 100) A/m, 50 Hz / 60 Hz	N
EN 61000-4-9:2016	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Pulse magnetic field immunity test. Basic EMC publication	magnetic field:(100 ~ 1 000) A/m	N
EN IEC 61000-6-1:2019	Electrical machinery for households	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments	Test level: ESD:±(4 ~ 8) kV RS:(0.080 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN IEC 61000-6-2:201 9	Electrical machinery for industries	Electromagnetic compatibility (EMC). Generic standards. Immunity for industrial environments	Test level: ESD: $\pm(4 \sim 8)$ kV RS:(0.08 ~ 6) GHz EFT: $\pm(1 \sim 2)$ kV Surge: $\pm(0.5 \sim 2)$ kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m V-DIP: not more than 16A per phase	N
EN IEC 61000-6-3:202 1	Electrical machinery for households	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments	CE:(0 ~ 30) MHz RE:(0.03 ~ 1) GHz	N
EN IEC 61000-6-4:201 9	Electrical machinery for industries	Electromagnetic compatibility (EMC). Generic standards. Emission standard for industrial environments	CE:(0.15 ~ 30) MHz RE:(0.030 ~ 1) GHz	N
EN 61547:2009	Lighting devices	Equipment for general lighting purposes. EMC immunity requirements	RS:(0.08 ~ 1) GHz EFT: $\pm(0.5 \sim 1)$ kV Surge: $\pm(0.5 \sim 2)$ kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP: not more than 16A per phase	N
IEC 60255-26:2013	Wiring appliances	Measuring relays and protection equipment-Part 26:Electromagnetic compatibility requirements	(2 ~ 15) kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-1-2:2007	Medical electrical equipment	Medical electrical equipment-Part 1 - 2:General requirements for basic safety and essential	CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz Test level: ESD:±(6 ~ 8) kV RS:(0.08 ~ 2.5) GHz EFT:±(1 ~ 2) kV Surge:±(1 ~ 2) kV CS:(0.15 ~ 80) MHz M/F:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
IEC 60601-1-2:2014	Medical electrical equipment	Medical electrical equipment-Part 1 - 2:General requirements for basic safety and essential performance-Collateral Standard:Electromagnetic disturbances-Requirements and tests	CE:(0.15 ~ 30) MHz RE:(0.03~6)GHz ESD:±(2~15)kV RS:(0.08~6)GHz EFT:±(0.25~4)kV Surge:±(0.5~2)kV CS:(0.009~80)MHz M/F:(1~100)A/m V-DIP:16 A or less per phase	N
IEC 61000-3-11:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3 - 11:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-Equipment with rated current ≤ 75 A and subject to conditional connection	a.c. input current:(16 ~ 75) A	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-3-2:2009	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3 - 2:Limits-Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	a.c. 16 A or less harmonic current emissions test	N
IEC 61000-3-2:2018	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3 - 2:Limits-Limits for harmonic current emissions(equipment input current ≤ 16 A per phase)	a.c. 16 A or less harmonic current emissions test	N
IEC 61000-3-2:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3 - 2:Limits-Limits for harmonic current emissions(equipment input current ≤ 16 A per phase)	a.c. 16 A or less harmonic current emissions test	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-3-3:2008	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3 - 3:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low - voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	a.c. 16 A or less harmonic current emissions test	N
IEC 61000-3-3:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3 - 3:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	a.c. 16 A or less harmonic current emissions test	N
IEC 61000-3-3:2021	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3 - 3:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	a.c. 16 A or less harmonic current emissions test	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC TR 61000-4-1:201 6	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 1:Testing and measurement techniques-Overview of IEC 61000-4 series	IEC 61000-4 series	N
IEC 61000-4-10:20 16	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 10:Testing and measurement techniques - Damped oscillatory magnetic field immunity test	(0.03 ~ 10) MHz	N
IEC 61000-4-11:20 20	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 11:Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	16 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-4-12:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 12:Testing and measurement techniques-Ring wave immunity test	(0.25 ~ 6) kV	N
IEC 61000-4-13:2015	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 13:Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	16 A or less	N
IEC 61000-4-2:2008	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 2:Testing and measurement techniques - Electrostatic discharge immunity test	$\pm(2 \sim 15)$ kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-4-3:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 3:Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	(0.08 ~ 6) GHz,(1 ~ 10) V/m	N
IEC 61000-4-4:2012	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 4:Testing and measurement techniques - Electrical fast transient/burst immunity test	$\pm(0.25 \sim 4)$ KV	N
IEC 61000-4-5:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 5:Testing and measurement techniques-Surge immunity test	$\pm(0.5 \sim 6)$ kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-4-6:2015	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 6:Testing and measurement techniques-Immunity to conducted disturbances, induced by radio-frequency fields	(0.009 ~ 80) MHz(1 ~ 10) V/m	N
IEC 61000-4-7:2008	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 7:Testing and measurement techniques-General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	General guidelines for measuring harmonics and interharmonics and instruments	N
IEC 61000-4-8:2009	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 8:Testing and measurement techniques - Power frequency magnetic field immunity test	(1 ~ 100) A/m, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-4-9:201 6	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4 - 9:Testing and measurement techniques - Pulsemagnetic field immunity test	(100 ~ 1 000) A/m	N
IEC 61000-6-1:201 6	Electrical machinery for households	Electromagnetic compatibility (EMC)-Part 6 - 1:Generic standards-Immunity for residential, commercial and light-industrial environments	Test level: ESD:±(4 ~ 8) kV RS:(0.080 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
IEC 61000-6-2:201 6	Electrical machinery for industries	Electromagnetic compatibility (EMC)-Part 6 - 2:Generic standards-Immunity for industrial environments	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(1 ~ 2) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m V-DIP:not more than 16A per phase	N
IEC 61000-6-3:202 0	Electrical machinery for households	Electromagnetic compatibility (EMC)-Part 6 - 3:Generic standards-Emission standard for residential, commercial and light - industrial environments	CE:(0 ~ 30) MHz RE:(0.03 ~ 1) GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-6-4:2018	Electrical machinery for industries	Electromagnetic compatibility (EMC)-Part 6 - 4:Generic standards-Emission standard for industrial environments	CE:(0.15 ~ 30) MHz RE:(0.030 ~ 1) GHz	N
IEC 61547:2020	Lighting devices	Equipment for general lighting purposes - EMC immunity requirements	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
IEC 62040-2:2016	Electrical equipments for industrial	Uninterruptible power systems (UPS)-Part 2:Electromagnetic compatibility (EMC) requirements	CE:(0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz SD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(1 ~ 2) kV Surge:±(1 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m	N
KS C 0262:2014	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-General Measurements	EMC standards for products that have semiconductor devices, have commutator motors, and automatically open and close repeatedly	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 0268:1995	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 4:Testing and measurement techniques-Section 7:General guide on harmonics and inter - harmonics measurements and instrumentation, for power supply systems and equipment connected thereto	(0 ~ 2 500) Hz	N
KS C 0271:1995	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4:Testing and measurement techniques-Section 10:Damped oscillatory magnetic field immunity test	(0.030 ~ 10) MHz	N
KS C 9811:2019	Electrical machinery for industries, Electrical machinery for households, Medical devices	Industrial, scientific and medical equipment-Radio-frequency disturbance characteristics - Limits and methods of measurement	RE:150 kHz ~ 18 GHz CE:(0.009~30) MHz 30 m excluded	N
KS C 9814-1:2020	Electrical machinery for households	Electromagnetic compatibility(EMC)-Requirements for household appliances, electric tools and similar apparatus-Part 1:Emission	RP:(30~300) MHz DISCONTINUOUS DISTURBANCE: (0.148 5 ~ 30) MHz RE:(0.030 ~ 1) GHz CE:(0.148 5 ~ 30) MHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9814-2:2020	Electrical machinery for households	Electromagnetic compatibility-Requirements for household appliances, electric tools and similar apparatus-Part 2:Immunity-Product family standard	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16A per phase	N
KS C 9815:2017	Lighting devices	Limits and methods of measurement of radiodisturbance characteristics of electrical lighting and similar equipment	CE:(0.009~30) MHz RE:(0.009~300) MHz	N
KS C 9815:2019	Lighting devices	Limits and methods of measurement of radiodisturbance characteristics of electrical lighting and similar equipment	CE:(0.009~30) MHz RE:(0.009~1000) MHz	N
KS C 9816-1-1:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-1:Radio disturbance and immunity measuring apparatus-Measuring apparatus	9 kHz ~ 18 GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9816-1-2:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-2:Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements	9 kHz ~ 1 GHz	N
KS C 9816-1-3:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-3:Radio disturbance and immunity measuring apparatus-Ancillary equipment - Disturbance power	(0.03 ~ 1) GHz	N
KS C 9816-1-4:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Specification for radio disturbance and immunity measuring apparatus and methods-Part 1-4:Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	9 kHz ~ 18 GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60601-1-2:201 2	Medical electrical equipment	Medical electrical equipment-Part 1 - 2:General requirements for basic safety and essential performance-Collateral standard:Electromagneticcompatibili ty-Requirements and tests	CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHzTest level:ESD:±(6 ~ 8) kV RS:(0.08 ~ 2.5) GHz EFT:±(1 ~ 2) kV Surge:±(1 ~ 2) kV CS:(0.15 ~ 80) MHz M/F:(0 ~ 3) A/m V-DIP:16 A or 1 ess	N
KS C IEC 60601-1-2:201 7	Medical electrical equipment	Medical electrical equipment-Part 1 - 2:General requirements for basic safety and essential performance-Collateral standard:Electromagneticcompatibili ty-Requirements and tests	CE:(0.15 ~ 30) MHz RE:(0.03~6)GHz ESD:±(2~15)kV RS:(0.08~6)GHz EFT:±(0.25~4)kV Surge:±(0.5~2)kV CS:(0.009~80)MHz M/F:(1~100)A/m V-DIP:16Aorlessper phase	N
KS C 9610-3-11:201 7	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-11:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low - voltage supply systems-Equipment with rated current ≤ 75 A and subject to conditional connection	a.c. input current:(16 ~ 75) A	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-3-2:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 3-2:Limits-Limits for harmonic current emissions(equipment input current ≤ 16 A per phase)	a.c. 16 A or less harmonic current emissions test	N
KS C 9610-3-3:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 3-3:Limits-Limitation of voltage changes, voltage fluctuations and flicker in Public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	a.c. 16 A or less	N
KS C IEC 61000-4-1:2016	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC) — Part 4-1: Testing and measurement techniques — Overview of the KS C IEC 61000-4 series	KS C IEC 61000-4 series	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61000-4-10:20 19	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-10:Testing and measurement techniques - Damped oscillatory magnetic field immunity test	(10 ~ 100) A/m	N
KS C 9610-4-11:202 0	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 4-11:Testing and measurement techniques-Voltage dips, short interruptions and voltages variations immunity test	16 A or less	N
KS C IEC 61000-4-12:20 03	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-12:Testing and measurement techniques-Ring wave immunity test	(0.25 ~ 6) kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61000-4-13:2010	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-13:Testing and measurement techniques – Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	Test for harmonics, interharmonics and low frequency	N
KS C 9610-4-2:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 4-2:Testing and measurement techniques-Electrostatic discharge immunity test	$\pm(2 \sim 15)$ kV	N
KS C 9610-4-3:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 4-3:Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test	(0.08 ~ 6) GHz, (1 ~ 10) V/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-4-4:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 4-4:Testing and measurement techniques-Electrical fast transient / burst immunity test	$\pm(0.25 \sim 4)$ kV	N
KS C 9610-4-5:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic Compatibility(EMC)-Part 4-5:Testing and measurement techniques - Surge immunity test	$\pm(0.5 \sim 6)$ kV	N
KS C 9610-4-6:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-6:Testing and measurement techniques-Immunity to conducted disturbances, induced by radio-frequency fields	(0.009 ~ 80) MHz (1 ~ 10) V/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61000-4-7:2010	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-7:Testing and measurement techniques - General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	General guidelines for measuring harmonics and inter harmonics and instruments	N
KS C 9610-4-8:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-8:Testing and measurement techniques-Power frequency magnetic field immunity test	(1 ~ 100) A/m, 50 Hz / 60 Hz	N
KS C 9610-4-9:2019	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-9:Testing and measurement techniques-Pulse magnetic field immunity test	(100 ~ 1 000) A/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-6-1:2019	Electrical machinery for households	Electromagnetic compatibility(EMC)-Part 6-1:Generic standards-Immunity for residential, commercial and light-industrial environments	Test level: ESD:±(4 ~ 8) kV RS:(0.080 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
KS C 9610-6-2:2019	Electrical machinery for industries	Electromagnetic compatibility(EMC)-Part 6-2:Generic standards-Immunity for Industrial environments	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(1 ~ 2) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m V-DIP:not more than 16A per phase	N
KS C 9610-6-3:2017	Electrical machinery for households	Electromagnetic compatibility(EMC)-Part 6-3:Generic standards-Emission standard for residential, commercial and light - industrial environments	CE:(0 ~ 30) MHz RE:(0.03 ~ 1) GHz	N
KS C 9610-6-4:2017	Electrical machinery for industries	Electromagnetic compatibility(EMC)-Part 6-4:Generic standards-Emission Standard for Industrial environments	CE:(0.15 ~ 30) MHz RE:(0.030 ~ 1) GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9547:2020	Lighting devices	Equipment for general lighting purposes-EMC immunity requirements	Test level: ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
KS C 9040-2:2017	Electrical equipments for industrial	Uninterruptible power systems(UPS)-Part 2:Electromagnetic compatibility(EMC) requirements	CE:(0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz SD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(1 ~ 2) kV Surge:±(1 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m	N
EN 61000-3-12:2011	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-12:Limits-Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	Input current >16 A and ≤ 75 A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-3-12:2011	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-12:Limits-Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	Input current >16 A and ≤ 75 A per phase	N
IEC 61000-3-12:2021	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-12:Limits-Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	Input current >16 A and ≤ 75 A per phase	N
KS C 9832:2019	Wired/Wireless communication devices	Test method for electromagnetic interference of multimedia devices	CE:(0.15 ~ 30) MHz RE:(0.03~6)GHz	N
KS C 9835:2019	Wired/Wireless communication devices	Test method for electromagnetic immunity of multimedia devices	PFM:(3 ~ 30) A/m ESD:±(2~8)kV RS:(0.08~6)GHz EFT:±(0.5~1)kV Surge:±(0.5~4)kV CS:(0.15~80)MHz V-DIP:not more than 16 A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
ISO/IEC 10373-1:2020	Software	Cards and security devices for personal identification - Test methods - Part 1: General characteristics	-	N
ISO/IEC 10373-3:2018	Software	Identification cards-Test method-Part 3:Integrated circuit(s) cards with contacts and related interface devices	-	N
ISO/IEC 10373-6:2020/AMD1:2021	Software	Cards and security devices for personal identification — Test methods — Part 6: Contactless proximity objects — Amendment 1: Dynamic power level management	-	N
ISO/IEC 14443-1:2018	Software	Cards and security devices for personal identification - Contactless proximity objects - Part 1: Physical characteristics	-	N
ISO/IEC 14443-2:2020/AMD1:2021	Software	Cards and security devices for personal identification — Contactless proximity objects — Part 2: Radio frequency power and signal interface — Amendment 1: Dynamic power level management	-	N
ISO/IEC 14443-3:2018	Software	Cards and security devices for personal identification - Contactless proximity objects - Part 3: Initialization and anticollision	-	N
ISO/IEC 14443-4:2018	Software	Cards and security devices for personal identification - Contactless proximity objects - Part 4: Transmission protocol	-	N
ISO/IEC 7501-1:2008	Software	Identification cards-Machine readable travel documents-Part 1:Machine readable passport	-	N
ISO/IEC 7810:2019	Software	Identification cards-Physical characteristics	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
ISO/IEC 7816-1:2011	Software	Identification cards-Integrated circuit cards-Part 1:Cards with contacts-Physical characteristics	-	N
ISO/IEC 7816-2:2007	Software	Identification cards-Integrated circuit cards-Part 2:Cards with contacts-Dimensions and location of the contacts	-	N
ISO/IEC 7816-3:2006	Software	Identification cards-Integrated circuit cards-Part 3:Cards with contacts-Electrical interface and transmission protocols	-	N
ISO/IEC 7816-4:2020	Software	Identification cards-Integrated circuit cards-Part 4:Organization, security and commands for interchange	-	N
KS X 6503:2002	Software	Identification cards-Physical characteristics	-	N
KS X ISO/IEC 7816-1:2016	Software	Identification cards-Integrated circuit(s) cards with contacts-Part 1:Physical characteristics	-	N
KS X ISO/IEC 7816-2:2016	Software	Identification cards-Integrated circuit(s) cards with contacts-Part 2:Dimensions and location of the contacts	-	N
KS X ISO/IEC 7816-3:2016	Software	Identification cards-Integrated circuit(s) cards with contacts-Part 3:Electronic signals and transmission protocols	-	N
KS X 6923-1:2019	Software	The specifications of purchase SAM on terminal of contactless IC card for electronic money Part 1:Physical characteristics and basicstructure of purchase SAM	-	N
KS X 6923-2:2019	Software	The specifications of purchase SAM on terminal of contactless IC card for electronic money Part 2:Command and protocol	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
KS X 6923-3:2019	Software	The specifications of purchase SAM on terminal of contactless IC card for electronic money-Part 3:Cryptogram of purchase SAM	-	N
KS X 6923-4:2019	Software	The specifications of purchase SAM on terminal of contactless IC card for electronic money-Part 4:Test method and management of purchase SAM	-	N
KS X 6924-1:2019	Software	The specifications of pre-paid IC card - Part 1:Physical characteristics and basic structure	-	N
KS X 6924-2:2019	Software	The specifications of pre-paid IC card - Part 2:Command and Protocol	-	N
KS X 6924-3:2019	Software	The specifications of pre-paid IC card - Part 3:Cryptogram	-	N
KS X 6924-4:2019	Software	The specifications of pre-paid IC card - Part 4:Conformance test	-	N
KS X 6925-1:2019	Software	The specifications of payment terminal for pre-paid IC card-Part 1:Physical specifications	-	N
KS X 6925-2:2019	Software	The specifications of payment terminal for pre-paid IC card-Part 2:Logical specifications	-	N
KS X 6925-3:2019	Software	The specifications of payment terminal for pre-paid IC card-Part 3:Cryptogram specifications	-	N
KS X ISO/IEC 10373-1:2021	Software	Identification cards-Test method-Part 1:General characteristics tests	-	N
KS X ISO/IEC 10373-3:2012	Software	Identification cards-Test method-Part 3:Integrated circuit(s) cards with contacts and related interface devices	-	N
KS X ISO/IEC 10373-6:2018	Software	Identification cards-Test method-Part 6:Proximity cards	-	N
KS X ISO/IEC 14443-1:2015	Software	Identification cards-Contactless Integrated circuit(s) cards-Proximity cards-Part 1:Physical characteristics	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
KS X ISO/IEC 14443-2:2016	Software	Identification cards-Contactless Integrated circuit(s) cards-Proximity cards-Part 2:Radio Frequency power and signal interface	-	N
KS X ISO/IEC 14443-3:2018	Software	Identification cards-Contactless Integrated circuit(s) cards-Proximity cards - Proximitycards-Part 3:Initialization and anticollision	-	N
KS X ISO/IEC 14443-4:2018	Software	Identification cards-Contactless Integrated circuit(s) cards-Proximity cards-Part 4:Transmission protocol	-	N
ICAO Doc 9303:2015	Software	ICAO Doc 9303 Machine Readable Travel Documents, 2015(Seventh Edition)	Part 9Part 10Part 12	N
ICAO Technical Report:2006	Software	Durability of Machine Readable Passports	-	N
ISO/IEC 18745-1:2018	Software	Test methods for machine readable travel documents (MRTD) and associated devices -- Part 1: Physical test methods for passport books (durability)	-	N
ISO/IEC 18745-2:2016	Software	Information technology - Test methods for machine readable travel documents (MRTD) and associated devices - Part 2: Test methods for the contactless interface	-	N
ICAO Radio Frequency Protocol and Application Test Standard for eMRTD-Part 3 v2.11:2018	Software	Tests for application Protocol and Logical data Structure	-	N

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
BSI TR - 03110:2008	Software	AdvancedSecurity Mechanisms for MachineReadable Travel Documents-Extended Access Control (EAC)	-	N
BSI TR-03105 Part 3.2 v1.12:2008	Software	Test plan for eMRTDs with Advanced Security Mechanisms - EAC 1.11	-	N
OIML D-31:2020	Software	General requirement for software controlled measuring instruments-Consolidated edition with Amendment 1	-	N
MSIT Notice No.2013-51 (08.08.2013.)	Software	Korea Evaluation and Certification Scheme for IT Security	Applied to Evaluation and Certification	Y
CCMB-2006-09-001:2006	Software	Common Criteria for Information Technology Security Evaluation, Part 1:Introduction and general model Version 3.1 Revision 1	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y
CCMB-2007-09-002:2007	Software	Common Criteria for Information Technology Security Evaluation, Part 2:Security functional components Version 3.1 Revision 2	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y
CCMB-2007-09-003:2007	Software	Common Criteria for Information Technology Security Evaluation, Part 3:Security assurance components Version 3.1 Revision 2	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y
CCMB-2007-09-004:2007	Software	Common Criteria for Information Technology Security Evaluation, Evaluation methodology, Version 3.1 Revision 2	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y
CCMB-2017-04-001:2017	Software	Common Criteria for Information Technology Security Evaluation, Part 1:Introduction and general model Version 3.1 Revision 5	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
CCMB-2017-04-002:2017	Software	Common Criteria for Information Technology Security Evaluation, Part 2:Security functional components Version 3.1 Revision 5	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y
CCMB-2017-04-003:2017	Software	Common Criteria for Information Technology Security Evaluation, Part 3:Security assurance components Version 3.1 Revision 5	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y
CCMB-2017-04-004:2017	Software	Common Criteria for Information Technology Security Evaluation, Evaluation methodology, Version 3.1 Revision 5	EAL1, EAL2, EAL3, EAL4, EAL5, AVA_VAN.5	Y
KS C 5078:2015	Software	Video data recording systems for road vehicle accidents - 7.2.4.2 Verification of integrity function for recorded events	-	N
KS X ISO/IEC TR 9126-2:2003	Software	Information technology-Software engineering-Product quality-Part 2:External metrics	Functionality, Reliability, Usability, Efficiency, Maintainability, Portability	N
ISO/IEC25051:2014	Software	Software engineering-Systems and software Quality Requirements and Evaluation (SQuaRE)-Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing	RUSP(Ready to Use Software Product) Software, Product Description, User / Test Documentation, Conformity Evaluation	Y
IEC 62304:2006	Software	Medical device software-Software life cycle processes	-	Y
IEC 62304:2006 + AMD1:2015	Software	Medical device software-Software life cycle processes	-	Y
KS P IEC 62304:2015	Software	Medical device software-Software life cycle processes	-	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60601-1:2005	Software	Medical electrical equipment-Part 1:General requirements for basic safety and essential performance 14, Annex H	-	Y
IEC 60601-1:2005 + AMD1:2012 + AMD2:2020	Software	Medical electrical equipment-Part 1:General requirements for basic safety and essential performance 14, Annex H	-	Y
IEC 61508-3:2010	Software	Functional safety of electrical / electronic / programmable electronic safety-related systems-Part 3:Software requirements	-	Y
KC 62619:2017	Software	Technical Regulations for Electrical and Telecommunication Products and Components-Secondary cells and batteries contain in galkaline or other non-acid electrolytes—Safety requirements for secondary Lithium cells and batteries, for use in industrial applications Annex D(Reference) Battery management system functional safety considerations	-	Y
KISA-GD-2019-0005:2019	Software	Internet of Things (IoT) security Guidetotestingandauthenticationstandards(STANDARD)	-	Y
KISA-GD-2019-0006:2019	Software	Internet of Things (IoT) security Guidetotestingandauthenticationstandards(BASIC)	-	Y
KISA-GD-2019-0007:2019	Software	Internet of Things (IoT) security Guidetotestingandauthenticationstandards(LITE)	-	Y
Guideline-0995-01:2019	Software	MFDS Certification Guideline for Cybersecurity of Medical device	-	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
KS X ISO/IEC 25051:2014	Software	Software engineering-- Systems and software Quality Requirements and Evaluation (SQuaRE)-- Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing	-	Y
KS X ISO/IEC 25023:2016	Software	Systems and software engineering-- Systems and software Quality Requirements and Evaluation (SQuaRE)-- Measurement of system and software product quality	-	Y
ISO/IEC 25023:2016	Software	Systems and software engineering--Systems and software Quality Requirements and Evaluation (SQuaRE)--Measurement of system and software product quality	-	Y
IEC 62443-4-2:2019	Software	Security for industrial automation and control systems--Part 4-2:Technical security requirements for IACS components	-	Y
KS X IEC 62443-4-2:2019	Software	Security for industrial automation and control systems--Part 4-2:Technical security requirements for IACS components	-	Y
Guideline-0995-02:2022	Software	MFDS Certification Guidelines for Cybersecurity of Medical device	-	Y
MSIT Notice No.2021-101(D ecember 30, 2021)	Software	Guidelines for the operation of software quality certification	-	Y
KS X IEC 62443-4-1:2018	Software	Security for industrial automation and control systems - Part 4-1: Secure product development lifecycle requirements	-	Y

Korea Laboratory Accreditation Scheme

No. KT005

03.012 Software

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62443-4-1:2018	Software	Security for industrial automation and control systems - Part 4-1: Secure product development lifecycle requirements	-	Y
KS X ISO/IEC 19790:2012	Software	Information technology — Security techniques — Security requirements for cryptographic modules	Security Level 1 Security Level 2	N
ISO/IEC 19790:2012	Software	Information technology — Security techniques — Security requirements for cryptographic modules	Security Level 1 Security Level 2	N
KS X ISO/IEC 24759:2014	Software	Information technology - Security techniques - Test requirements for cryptographic modules	Security Level 1 Security Level 2	N
ISO/IEC 24759:2017	Software	Information technology - Security techniques - Test requirements for cryptographic modules	Security Level 1 Security Level 2	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No. 2015-159 (07.31.2015.)	Electrical machinery for households	Rules for e-standby program	-	
		1. Computers	rated power consumption 1 000 W or less	N
		2. Monitors	rated power consumption 5 000 W or less	N
		3. Printers	rated power consumption 3 000 W or less	N
		4. Fax Machines	rated power consumption 3 000 W or less	N
		5. Copiers	rated power consumption 5 000 W or less	N
		6. Scanners	rated power consumption 1 000 W or less	N
		7. Multifunctional Devices	rated power consumption 5 000 W or less	N
		37. Set-top Boxes	rated power consumption:200 W or less	N
		8. Energy-Saving & Controlling Devices	(100 ~ 600) V, 50 A or less	N
		10. Audio	rated power consumption 1 000 W or less	N
		11. DVD Players	rated power consumption 150 W or less	N
		12. Radio Cassette	rated power consumption 1 000 W or less	N
13. Microwave Ovens	rated power consumption 3 000 W or less	N		

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No. 2015-159 (07.31.2015.)	Electrical machinery for households	Rules for e-standby program (continuously)	-	
		15. Door phones	rated power consumption 200 W or less	N
		16. Cordless/Corded Phones	rated power consumption 200 W or less	N
		17. Bidet	rated power consumption 3 000 W or less	N
		18. Modem	rated power consumption 200 W or less	N
		19. Home Gateway	rated power consumption 300 W or less	N
		20. Hand Dryers	rated power consumption 5 000 W or less	N
		21. Servers	rated power consumption 5 000 W or less	N
		22. Digital converter	rated power consumption 500 W or less	N
ENERGY STAR:2013	Electrical machinery for households	ENERGY STAR Program Requirements Product Specification for Audio/Video, Eligibility Criteria Version 3.0 (2013)	(100 ~ 250) V, (50 ~ 60) Hz	N
ENERGY STAR:2013	Electrical machinery for households	ENERGY STAR Program Requirements Product Specification for Televisions, Eligibility Criteria Version 6.0 (2013)-CEA:Procedure for DAM Testing(Add)	(100 ~ 250) V,(50 ~ 60) Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
ENERGY STAR:2009	Electrical machinery for households	ENERGY STAR Program Requirements Product Specification for Computer, Eligibility Criteria Version 5.2 (2009)	(100 ~ 250) V, (50 ~ 60) Hz	N
ENERGY STAR:2013	Electrical machinery for households	ENERGY STAR Program Requirements Product Specification for Displays, Eligibility Criteria Version 6.0 (2013)	(100 ~ 250) V, (50 ~ 60) Hz	N
IEC 62087:2011	Electrical machinery for households	Methods for Measurement for the Power Consumption of Audio, Video and Related Equipment	(100 ~ 250) V, (50 ~ 60) Hz	N
IEC 62087-1:2015	Electrical machinery for households	Audio, video, and related equipment-Determination of power consumption-Part 1:General	(100 ~ 250) V, (50 ~ 60) Hz	N
IEC 62087-2:2015	Electrical machinery for households	Audio, video, and related equipment-Determination of power consumption-Part 2:Signals and media	(100 ~ 250) V, (50 ~ 60) Hz	N
IEC 62087-3:2015	Electrical machinery for households	Audio, video, and related equipment-Determination of power consumption-Part 3:Television sets	(100 ~ 250) V, (50 ~ 60) Hz	N
IEC 62087-4:2015	Electrical machinery for households	Audio, video, and related equipment-Determination of power consumption-Part 4:Video recording equipment	(100 ~ 250) V, (50 ~ 60) Hz	N
IEC 62087-5:2015	Electrical machinery for households	Audio, video, and related equipment-Determination of power consumption-Part 5:Set - top-boxes	(100 ~ 250) V,(50 ~ 60) Hz	N
IEC 62087-6:2015	Electrical machinery for households	Audio, video, and related equipment-Determination of power consumption-Part 6:Audio equipment	(100 ~ 250) V,(50 ~ 60) Hz	N
ANCI/CEA-203 7:2010	Electrical machinery for households	Determination of Television Average Power Consumption	(100 ~ 250) V,(50 ~ 60) Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE notice No. 2021-166 (10.25.2021.)	Electrical machinery for households	The provisions for certification of high efficiency energy-using appliances program	-	
		14. LED modules for message sign	DC 50 V or less	N
		18. Luminaries-1) Indoor LED luminaries	a.c. 220 V, 60 Hz	N
		18. Luminaries-2) Outdoor LED luminaries	a.c. 220 V, 60 Hz	N
		18. Luminaries-3) PLS luminaries	1 000 V or less, 700 W, 1 000 W	N
		18. Luminaries-4) hade reflected high luminance for fluorescent lamp	a.c. 220 V, 60 Hz, 150 W or less	N
		8. Luminaries-5) Luminaries for fluorescent induction lamp	a.c. 220 V, 60 Hz	N
		19. LED Lamp-1) Tubular LED lamps using external converter	400 W or less 22 W or less	N
		19. LED Lamp-2) LED Lamp for Fluorescent Lamp Retrofit-Internal converter type	20 W, 32 W, 40 W	N
MOTIE Notice No.2021-166 (10.25.2021.)	Lighting devices	The provisions for certification of high efficiency energy-using appliances program 20.SmartLEDLuminaries	Voltage : 220 V, Frequency : 60 Hz	N
IES LM-79-08:2008	Lighting devices	Electrical and Photometric Measurements of Solid-State Lighting Products	a.c. (0 ~ 300) Va.c. (0 ~ 30) A	N
IEC 60034-2-3:2020	Electrical machinery for industries	Rotating electrical machines-Part 2-3:Specific test methods for determining losses and efficiency of converter-fed AC motors	Single phase:: Max 400 V Three Phases:Max 600 V Capacity:Max 375 kW	N
IEC 60034-30-1:2014	Electrical machinery for industries	Rotating electrical machines-Part 30-1:Efficiency classes of line operated AC motors(IE code)	Single phase:: Max 400 V Three Phases:Max 600 V Capacity:Max 375 kW	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
IEC TS 60034-30-2:2016	Electrical machinery for industries	Rotating electrical machines-Part 30-2:Efficiency classes of variable speed AC motors(IE-code)	Single phase:: Max 400 V Three Phases:Max 600 V Capacity:Max 375 kW	N
SASO IEC 60034-30:2013	Electrical machinery for households	Rotating electrical machines-Part 30:Efficiency classes of single-speed, three-phase, cage-induction motors(IE code)	Single phase:: Max 400 V Three Phases:Max 600 V Capacity:Max 375 kW	N
IEC 61800-9-2:2017	Electrical machinery for industries	Adjustable speed electrical power drive systems - Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications - Energy efficiency indicators for power drive systems and motor starters (Exception) 7.8 Calorimetric measurement of CDMlosses	375kW or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No.2021-69 (04.20.2021.)	Electrical machinery for industries Electrical machinery for households	The provisions for Certification of efficiency energy-using appliances Program	-	
		14. Incandescent Lamp	220 V, 25 W ~ 150 W	
		15. Fluorescent Lamps	intuition (Type 20 W, 28 W, 32 W, 40 W), Round (32 W, 40 W), Compact (FPX 13 W, FDX 26 W, FPL 27 W, FPL 32 W, FPL 36 W, FPL 45 W, FPL 55 W)	
		16. Ballasts for Fluorescent Lamps	intuition (Type 20 W, 28 W, 32 W, 40 W), Round (32 W, 40 W), Compact (FPX 13 W, FDX 26 W, FPL 27 W, FPL 32 W, FPL 36 W, FPL 45 W, FPL 55 W)	
		17. Self ballasted Lamps	5 W ~ 60 W	
		18. Inducted electromotor of three phase	0.75 kW ~ 375 kW	
		20. Adapter, battery chargers	Output Power 300 W or less	
		26. Television Receiver	rated power consumption: 200 W or less	
		37. Set-top Boxes	rated power consumption: 200 W or less	
		38. Self-ballasted LED lamps	AC 220 V, 60 Hz	
		39. Non-ballasted LED lamps	AC/DC 50 V or less, 30 W or less	
IEC 62301:2011	Electrical machinery for households	Household Electrical Appliances - Measurement of Standby Power	(100 ~ 250) V, (50 ~ 60) Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8561:2016	Electrical machinery for industries	Crystalline silicone photovoltaic(PV) module(performance)	max voltage 300 V or less max current 30 A or less	N
KS C 8563:2015	Electrical machinery for industries	Photovoltaic(PV) module(safety qualification)	max voltage 300 V or less max current 30 A or less	N
KS C 8577:2016	Electrical machinery for industries	Building integrated photovoltaics(BIPV) modules-The requirement of performance evaluation	max voltage 300 V or less max current 30 A or less	N
IEC 60904-1 Ed.2.0 b:2006	Electrical machinery for industries	Photovoltaic devices-Part 1:Measurement of photovoltaic current-voltage characteristics	max voltage 200 V or less max current 24 A or less	N
IEC 61215 Ed. 2.0b:2005	Electrical machinery for industries	Crystalline silicon terrestrial photovoltaic(PV) modules-Design qualification and type approval	max voltage 200 V or less max current 24 A or less	N
IEC 61730-1:2016	Electrical machinery for industries	Photovoltaic(PV) module safety qualification-Part 1:Requirements for construction	max voltage 2 500 V or less max current 30 A or less	N
IEC 61730-2:2016	Electrical machinery for industries	Photovoltaic(PV) module safety qualification-Part 2:Requirements for testing	max voltage 8 000 V or less max current 30 A or less	N
KS C IEC 60904-1:2009	Electrical machinery for industries	Photovoltaic devices-Part 1:Measurement of photovoltaic current-voltage characteristics	max voltage 200 V or less max current 40 A or less	N
KS C IEC 61215:2006	Electrical machinery for industries	Crystalline silicon terrestrial photovoltaic (PV) modules-Design qualification and type approval	max voltage 200 V or less max current 40 A or less	N
KS C IEC 61730-1:2014	Electrical machinery for industries	Photovoltaic (PV) module safety qualification-Part 1:Requirements for construction	max voltage 2 500 V or less max current 30 A or less	N
KS C IEC 61730-2:2014	Electrical machinery for industries	Photovoltaic (PV) module safety qualification-Part 2:Requirements for testing	max voltage 8 000 V or less max current 30 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No.2022-64 (04.27.2022.)	Electrical machinery for households	Ministry of commerce, Industry and energy notice No.2022-64 (2022.04.27.) The provisions for Certification of efficiency energy-using appliances Program 42. Signage Display	220 V, 60 Hz, Diagonal Screen Size : (30.48 ~ 154.94) cm	N
MOTIE Notice No.2022-64 (04.27.2022.)	Electrical machinery for households	Ministry of commerce, Industry and energy notice No.2022-64 (2022.04.27.) The provisions for Certification of efficiency energy-using appliances Program 44. Monitor	DC or 220 V, 60 Hz, Diagonal Screen Size : (30.48 ~ 154.94) cm	N
ENERGY STAR Program Requirements for Electric Vehicle Supply Equipment Eligibility Criteria Version 1.1:2021	Electric vehicle power supply	ENERGY STAR Program Requirements for Electric Vehicle Supply Equipment Eligibility Criteria Version 1.1	600 V AC or less, 50 Hz, 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

ELECTROCON SRL

Korea Laboratory Accreditation Scheme

No. KT005

03.014 Environment and reliability

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60068-1:2013	Electrical machinery for households	Environmental Testing-Part 1:General and guidance	Temperature: (-50 ~ 55) °C	N
IEC 60068-2-1:2007	Electrical machinery for households	Environmental Testing-Part 2 - 1:Tests-Tests A:Cold	Temperature: (-50 ~ 5) °C	N
IEC 60068-2-10:2018	Electrical machinery for households	Environmental testing-Part 2 - 10:Tests-Test J and guidance:Mould growth	Flow rate:1 m/s or less Temperature: (28 ~ 30) °C	N
IEC 60068-2-11:2021	Electrical machinery for households	Basic Environmental testing procedures-Part 2 - 11:Tests-Tests Ka:Salt Mist	Temperature: (35 ± 2) °C	N
IEC 60068-2-13:2021	Electrical machinery for households	Basic Environmental testing procedures-Part 2 - 13:Tests-Test M:Low air pressure	Air Pressure: (1 ~ 84) kPa Tolerance:±2 kPa	N
IEC 60068-2-14:2009	Electrical machinery for households	Environmental testing-Part 2 - 14:Tests-Test N:Change of temperature	(0 ~ 100) °C	N
IEC 60068-2-17:1994	Electrical machinery for households	Basic Environmental testing procedures-Part 2 - 17:Tests-Test Q:Sealing	Pressure difference: (1.47 ~ 9.78) kPa	N
IEC 60068-2-18:2017	Electrical machinery for households	Environmental testing-Part 2 - 18:Tests-Test R and guidance:Water	IPX1 ~ IPX7 (IPX8 ~ IPX9 except)	N
IEC 60068-2-2:2007	Electrical machinery for households	Environmental Testing-Part 2 - 2:Tests-Tests B:Dry Heat	Temperature: (30 ~ 250) °C	N
IEC 60068-2-20:2021	Electrical machinery for households	Environmental Testing-Part 2 - 20:Tests-Test T:Test methods for solderability and resistance to soldering heat of devices with leads	Temperature: (350 ± 10) °C	N
IEC 60068-2-21:2021	Electrical machinery for households	Environmental Testing -Part 2 - 21:Tests-Test U:Robustness of terminations and integral mounting devices	Nominal cross sectional area: (0.05 ~ 1.20) mm ² , Diameter for Wires: (0.25 ~ 1.25) mm, Force:(1 ~ 40) N	N

Korea Laboratory Accreditation Scheme

No. KT005

03.014 Environment and reliability

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60068-2-27:20 08	Electrical machinery for households	Environmental Testing -Part 2 - 27:Tests-Test Ea and guidance:Shock	acceleration: (50 ~ 1 000) m/s ²	N
IEC 60068-2-30:20 05	Electrical machinery for households	Environmental Testing -Part 2 - 30:Tests-Test Db, Damp heat cyclic(12 + 12-hour cycle)	Temperature: (25 ~ 55) °C	N
IEC 60068-2-31:20 08	Electrical machinery for households	Environmental Testing -Part 2 - 31:Tests-Test Ec:Routh handling shocks, primarily for equipment-type specimens	Fall heights:25 mm ~ 1 500 mm	N
IEC 60068-2-38:20 21	Electrical machinery for households	Environmental Testing -Part 2 - 38:Tests-Test Z / AD:Composite temperature / Humidity Cyclic Test	Relative humidity: (93 ± 3) % R..H. Temperature: (-10 ~ 65) °C	N
IEC 60068-2-39:20 15	Electrical machinery for households	Environmental Testing -Part 2 - 39:Tests - Tests and guidance:Combined temperature or temperature and humidity with low air pressure tests	Pressure: (15 ~ 70) kPa Temperature: (-55 ~ 85) °C	N
IEC 60068-2-42:20 03	Electrical machinery for households	Environmental Testing -Part 2 - 42:Tests.-Test Kc:Sulphur dioxide test for contacts and connections	Temperature: (25 ± 2) °C humidity:75 % R.H. SO2:25 ppm	N
IEC 60068-2-43:20 03	Electrical machinery for households	Environmental Testing -Part 2 - 43:Tests-Test Kd:Hydrogen sulphide test for contacts and connections	Hydrogen sulphide: (10 × 10 ⁻⁶ ~ 15 × 10 ⁻⁶) %, Temperature: (25 ± 2) °C Relative humidity:75 %. R.H.	N
IEC 60068-3-13:20 16	Electrical machinery for households	Environmental testing-Part 3 - 13:Supporting documentation and guidance on Test T-Soldering	temperature range: (235 ~ 250) °C	N

Korea Laboratory Accreditation Scheme

No. KT005

03.014 Environment and reliability

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60068-2-45:19 80	Electrical machinery for households	Basic Environmental Testing procedures -Part 2 - 45:Tests-Test Xa and guidance immersion in cleaning solvents	(48 ~ 51) °C	N
IEC 60068-2-46:19 82	Electrical machinery for households	Basic Environmental Testing procedures -Part 2 - 46:Tests-Guidance to Test Kd:Hydrogen sulphide test for contacts and connections	humidity:70 % R.H. Temperature: (25 ± 2) °C	N
IEC 60068-2-47:20 05	Electrical machinery for households	Environmental Testing-Part 2 - 47:Test methods-Mounting of vibration, impact and similar dynamic tests	(20 ~ 1 000) Hz 78.4 m/s ²	N
IEC 60068-2-49:19 83	Electrical machinery for households	Basic Environmental Testing procedures -Part 2 - 49:Tests-Guidance to Test Kc:Sulphur dioxide test for contacts and connections	Temperature: 20 °C Humidity: (70 ~ 75) % R.H.	N
IEC 60068-2-5:201 8	Electrical machinery for households	Environmental Testing-Part 2:Tests-Test Sa:Simulated solar radiation at ground level and guidance for solar radiation testing	(320 ~ 400) nm	N
IEC 60068-2-52:20 17	Electrical machinery for households	Environmental Testing-Part 2:Tests-Test Kb:Salt mist, cyclic (sodium, chloride solution)	temperature: 38 °C ~ 42 °C humidity: (90 ~ 95) % R..H. Nacl concentration: (5 ± 1) %	N
IEC 60068-2-53:20 10	Electrical machinery for households	Environmental Testing-Part 2 - 53:Tests and Guidance - Combined climatic(temperature /humidity) and dynamic(vibration / shock) tests	temperature: (-65 ~ 300) °C	N
IEC 60068-2-55:20 13	Electrical machinery for households	Environmental Testing -Part 2 - 55:Tests-Test Ee and guidance:Loose cargo testing including bounce	horizontality: (25 ~ 26) mm max acceleration: (10.78 ~ 11.76) m/s ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.014 Environment and reliability

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60068-2-57:20 13	Electrical machinery for households	Environmental Testing-Part 2 - 57:Tests-Test Ff:Vibration - Time-history and sine-beat method	frequency: (20 ~ 2 000) Hz acceleration: 78.4 m/s ²	N
IEC 60068-2-58:20 17	Electrical machinery for households	Environmental Testing-Part 2 - 58:Tests-Test Td:Test methods for solderability, resistance to dissolution of metalization and to soldering heat of surface mountingdevice (SMD)	temperature: (170 ~ 250) °C	N
IEC 60068-2-6:200 7	Electrical machinery for households	Environmental testing-Part 2 - 6:Tests-Test Fc:Vibration (sinusoidal)	frequency: (20 ~ 2 000) Hz acceleration: 78.4 m/s ²	N
IEC 60068-2-60:20 15	Electrical machinery for households	Environmental Testing-Part 2 - 60:Tests-Test Ke:Flowing mixed gas corrosion test	Temperature: (25 ~ 30) °C Humidity: (70 ~ 75) % R.H. H2S:(10 ~ 100) ppb NO2:200 ppb Cl2:(10 ~ 20) ppb SO2:(200 ~ 500) ppb	N
IEC 60068-2-61:19 91	Electrical machinery for households	Environmental Testing-Part 2 - 61:Tests method-Test Z / ABDM:Climatic sequence	temperature: (-50 ~ 250) °C	N
IEC 60068-2-64:20 19	Electrical machinery for households	Environmental Testing-Part 2 - 64:Tests method-Test Fh:Vibration, broad-band random and guidance	frequency:(20 ~ 2 000) Hz acceleration: (1 ~ 280) m/s ²	N
IEC 60068-2-65:20 13	Electrical machinery for households	Environmental Testing-Part 2 - 65:Test-Test Fg:Vibration-acoustically induced method	noise:(20 ~ 110) dB	N
IEC 60068-2-66:19 94	Electrical machinery for households	Environmental Testing-Part 2:Test methods-Test Cx:Damp heat, steady state(unsaturated pressurized vapour)	temperature: (100 ~ 130) °C	N

Korea Laboratory Accreditation Scheme

No. KT005

03.014 Environment and reliability

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60068-2-67:20 19	Electrical machinery for households	Environmental Testing-Part 2 - 67:Tests-Test Cy:Damp heat, steady state, accelerated test primarily intended for components	temperature: (85 ± 2) °C humidity: (85 ± 1.5) % R.H.	N
IEC 60068-2-68:19 94	Electrical machinery for households	Environmental Testing-Part 2 - 68:Tests-Test L:Dust and Sand	molecule size 75 μm	N
IEC 60068-2-69:20 17	Electrical machinery for households	Environmental testing-Part 2 - 69:Tests-Test Te:Solderability testing of electronic components for surface mounting devices (SMD) by the wetting balance method	temperature (235 ± 3) °C speed:(1 ~ 5) mm/s	N
IEC 60068-2-7:198 3	Electrical machinery for households	Basic Environmental testing procedures -Part 2 - 7:Tests - Test Ga and guidance:Acceleration, steady state	(49 ~ 980) m/s ²	N
IEC 60068-2-70:19 95	Electrical machinery for households	Environmental Testing-Part 2 - 70:Tests-Test Xb:Abrasion of marking and letterings caused by rubbing of fingers and hands	angle:(45 ± 5) °C speed:60 mm/s	N
IEC 60068-2-74:20 18	Electrical machinery for households	Environmental Testing-Part 2:Tests-Test Xc:Fluid contamination	temperature: (23 ~ 150) °C minimum area:20 cm ²	N
IEC 60068-2-75:20 14	Electrical machinery for households	Environmental Testing-Part 2 - 75:Tests-Test Eh:Hammer tests	impact energy base: (0.14 ~ 50) J	N
IEC 60068-2-78:20 12	Electrical machinery for households	Environmental Testing-Part 2 - 78:Tests -Test Cab:Damp heat, steady state	temperature: (20 ~ 50) °C humidity: (80 ~ 98) % R.H.	N
IEC 60068-3-1:201 1	Electrical machinery for households	Environmental Testing-Part 3 - 1:Supporting documentation and guidance-Cold and dry heat tests	air volume: (0 ~ 0.5) m/s temperature: (40 ~ 150) °C	N
IEC 60068-3-3:201 9	Electrical machinery for households	Environmental Testing-Part 3 - 3:Guidance-Seismic test methods for equipments	vibration: (20 ~ 35) Hz acceleration: 15 m/s ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.014 Environment and reliability

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60068-3-4:2001	Electrical machinery for households	Environmental Testing-Part 3 - 4:Supporting documentation and guidance-Damp heat tests	pH:6.0 ~ 7.2.	N
IEC 60068-3-5:2018	Electrical machinery for households	Environmental Testing-Part 3 - 5:Supporting documentation and guidance-Confirmation of the performance of temperature chamber	sensor response time:(10 ~ 40) s sensor measurement range:(-50 ~ 200) °C	N
IEC 60068-3-6:2018	Electrical machinery for households	Environmental Testing-Part 3 - 6:Supporting documentation and guidance-Confirmation of the performance of temperature/humidity chambers	temperature: (10 ~ 90) °C humidity: (10 ~ 95) % R.H.	N
IEC 60068-3-7:2020	Electrical machinery for households	Environmental Testing-Part 3 - 7:Supporting documentation and guidance-Measurements in temperature chambers for tests A and B (with load)	temperature range: (-50 ~ 5) °C, (30 ~ 250) °C	N
KS C 0233:2001	Electrical machinery for households	Combined Cold / Low Air Pressure tests methods	Temperature: (-40 ~ 55)°C Pressure: (40 ~ 700) mbar	N
KS C 0251:2001	Electrical machinery for households	Environmental testing methods(Electric, Electronic) robustness of terminations and integral mounting devices test methods	(0.25 ~ 8) N	N
KS C 0261:1995	Electrical machinery for households	Needle flame(injection type burner) test methods	spark length (12 ± 1) mm pipe length 35 mm, inside diameter (0.5 ± 0.1) mm outside diameter 0.9 mm	N
KS C IEC 60068-2-68:2020	Electrical machinery for households	Environmental testing-Part 2:Tests-Test L:Dust and sand	molcule size 75 μ m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.014 Environment and reliability

Test method	Products and materials	Standard designation	Test range	Field testing
KS D 9502:2020	Electrical machinery for households	Method of salt spray testing(NSS, AASS, CASS)	25 °C (50 ± 5) g/L	N
KS C 5078:2015	Electrical machinery for households	Video data recording systems for road vehicle accidents [exception] 7.2.4.2	Input voltage DC 12 V DC 24 V	N

Korea Laboratory Accreditation Scheme

No. KT005

Satellite facilities-1. 57, Yangcheong 3-gil, Ochang-eup, Cheongwon-gun,

Chungcheongbuk-do, Republic of Korea

03 Electric Test

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60092-354:202 0	Electric cords, cables and circuits	Electrical installations in ships - Part 354:Single-and three-core power cables with extruded solid insulation for rated voltages 6 kV (Um = 7.2 kV) up to 30 kV (Um = 36 kV) Table 3 Voltage test, Voltage test on sheath, Insulation resistance test, Partial discharge test, High voltage sequence test, Insulation resistance measurement at maximum rated temperature, Increase in a.c. capacitance after immersion in water, High-voltage test for 4 h, Flame-spread tests:IEC 60332 - 3-22	Rated voltage 6 kV ~ 30 kV	N
IEC 60092-376:201 7	Electric cords, cables and circuits	Electrical installations in ships - Part 376: Cables for control and instrumentation circuits 150/250 V (300 V) Table5-Tests applicable to all cables Fire-retard anttests:IEC60332-3-22 Table7-Additional test required for low smoke cables Smoke emission test for cable sinsilated and sheathed with halogen-free materials. When tested according to IEC 61034-2	Rated voltage 150/250 V(300 V)	N
IEC 60332-3-21:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-21: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A F/R	7 l/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60332-3-22:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A	7 l/m	N
IEC 60332-3-23:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-23: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category B	3.5 l/m	N
IEC 60332-3-24:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category C	1.5 l/m	N
IEC 60332-3-25:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-25: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category D	0.5 l/m	N
IEC 60502-2:2014	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV(U _m = 1.2 kV) up to 30 kV(U _m = 36 kV) - Part 2: Cables for rated voltages from 6 kV(U _m = 7.2 kV) up to 30 kV(U _m = 36 kV) 16.2 Electrical resistance of conductors 16.3 Partial discharge test 16.4 Voltage test 16.5 Electrical test on oversheath of the cable 17.9 Voltage test for 4 h 18. Type tests, electrical 19.24 Water penetration test	36 kV or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61034-2:2019	Electric cords, cables and circuits	Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements	ethanol: (90 ± 1) %, methanol: (4 ± 1) %, distilled water: (6 ± 1) %	N
IEC 62821-3:2015	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables(cords) Annex A Table A.1 8.2 Smoke emission Test	450/750 V or less	N
KC 62821-3:2016	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables(cords) Annex A Table A.1 8.2 Smoke emission Test	450/750 V or less	N
KS C IEC 60092-354:1994	Electric cords, cables and circuits	Electrical installations in ships - Part 354: Single-and three-core power cables with extruded solid insulation for rated voltages 6 kV, 10 kV and 15 kV 18.3.3 Partial discharge test 18.3.4 Bending test 18.3.5 Tan δ measurement as a function of the voltage 18.3.6 Tan δ measurement as a function of the temperature 18.3.7 Heating cycle test plus partial discharge test 18.3.8 Impulse withstand test, followed by a power-frequency voltage test	Rated voltage 3.6/6(7.2) kV, 6/10(12) kV, 8.7/15(17.5) Kv	N
KS C IEC 60332-3-21:2000	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions-Part 3-21:Test for vertical flame spread of vertically-mounted bunched wires or cables-Category A F/R	7 l/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60332-3-22:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A	7 l/m	N
KS C IEC 60332-3-23:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-23: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category B	3.5 l/m	N
KS C IEC 60332-3-24:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category C	1.5 l/m	N
KS C IEC 60332-3-25:20 18	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 3-25: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category D	0.5 l/m	N
KS C IEC 60502-2:2014	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV(Um = 1.2 kV) up to 30 kV(Um = 36 kV) - Part 2: Cables for rated voltages from 6 kV(Um = 7.2 kV) up to 30 kV(Um = 36 kV) 16.2 Electrical resistance of conductors 16.3 Partial discharge test 16.4 Voltage test 17.9 Voltage test for 4h 18. Type tests, electrical 19.24 Water penetration test	36 kV or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61034-2:2013	Electric cords, cables and circuits	Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements	ethanol: (90 ± 1) %, methanol: (4 ± 1) %, distilled water: (6 ± 1) %	N
KS C IEC 62821-3:2014	Electric cords, cables and circuits	Electric cables - Halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V - Part 3: Flexible cables(cords) Annex A Table A.1 8.2 Smoke emission Test	450/750 V or less	N
BS EN 50305:2020	Electric cords, cables and circuits	Railway applications. Railway rolling stock cables having special fire performance. Test methods 9.1 Flame propagation	0.5 l/m	N
ES-6145-0019: 2020	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Crosslinked Polyethylene Insulated Halogen free Polyolefin Jacketed Water-proof Power Cables (FR CNCO-W) 8.1 Visual Inspection, 8.2 Construction test, 8.3 Electrical Characteristic Test, 8.5 High Voltage Time Test (HVTT)	Cross-sectional Area: 60 mm ² , 200 mm ² , 325 mm ² , 600 mm ²	N
ES-6145-0025: 2020	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Water Tree Retardant XLPE Insulated Extruded-to-Fill Polyethylene Jacketed Water-proof Power Cables (TR CNCE-W) 7.1 Visual Inspection, 7.2 Construction test, 7.3 Electrical Characteristic Test, 7.5 High Voltage Time Test (HVTT) and Accelerated Water Treeing Test (AWTT). 7.6 Thermomechanical Qualification Test, 7.7 CV Extrusion Qualification Test	Cross-sectional Area: 60 mm ² , 200 mm ² , 325 mm ² , 600 mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
ES-6145-0026: 2020	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Water Tree Retardant XLPE Insulated Extruded-to-Fill Polyethylene Jacketed Water-proof Power Aluminium Cables (TR CNCE-W/AL) 7.1 Visual Inspection, 7.2 Construction test, 7.3 Electrical Characteristic Test, 7.5 High Voltage Time Test (HVTT) and Accelerated Water Treeing Test (AWTT), 7.6 Thermomechanical Qualification Test, 7.7 CV extrusion qualification test	Cross-sectional Area: 90 mm ² , 240 mm ² , 400 mm ²	N
ES-6145-0028: 2020	Electric cords, cables and circuits	Testing Methods for 22.9 kV Power Cables 3.1 Visual inspection, 3.2 Construction test, 3.3 Electrical characteristic test, 3.4.1 Water penetration test, 3.5 High voltage time test and accelerated water treeing test, 3.6 Thermomechanical qualification test, 3.7 CV extrusion qualification test	cross section area(mm ²) 60, 200, 325, 600 (Cu) 95, 240, 400 (Al)	N
ES-6145-0034: 2019	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Water Tree Retardant XLPE Insulated Halogen free Polyolefin Jacketed Water-proof Power Aluminium Cables (FR CNCO-W/AL) 7.1 Visual Inspection, 7.2 Construction test, 7.3 Electrical Characteristic Test, 7.5 High Voltage Time Test (HVTT) and Accelerated Water Treeing Test (AWTT), 7.6 Thermomechanical Qualification Test, 7.7 CV extrusion qualification test	Cross-sectional Area: 90 mm ² , 240 mm ² , 400 mm ²	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
GS-6145-0063: 2007	Electric cords, cables and circuits	22.9 kV FR-CO/W (Water-proof type power cable) 5.1 Test Method(A. Visual Inspection, B. Construction test, C. Insulation Resistance, D. Capacitance, E. AC Voltage Test, F. Conductor Resistance, G. Dissipation Factor, H. Dissipation Factor Characterization Test, I. Long Term AC Voltage Test, J. Impulse Voltage Test, N. Flame spread Test, T. Partial Discharge Test, U. Conductor Watertightness test)	Cross-sectional Area: 600 mm ²	N
GS-6145-0097: 2018	Electric cords, cables and circuits	22.9 kV Concentric Neutral Type Eco-friendly Polypropylene Insulated Extruded-to-Fill Polyethylene Jacketed Water-proof Power Aluminium Cables 7.1 Visual inspection, 7.2 Construction test, 7.3 Electrical characteristic test, 7.4.1 Water penetration test, 7.5.1 Accelerated water treeing test, 7.6 Thermomechanical qualification test, 7.7 CV extrusion qualification test	cross section area(mm ²) 95, 240, 400	N

Korea Laboratory Accreditation Scheme

No. KT005

**Branch Site-1. 69, Taejeong-ro, Maengdong-myeon, Eumseong-gun,
Chungcheongbuk-do, Republic of Korea**

03 Electric Test

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62133-1:2017	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications-Part 1:Nickel systems	DC 50 V, 50 A or less	N
IEC 62133-2:2017	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications-Part 2:Lithium systems	DC 50 V, 50 A or less	N
IEC 62619:2017	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for secondary lithium cells and batteries, for use in industrial applications	DC 1 200 V, 400 A or less	N
IEC 62620:2014	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Secondary lithium cells and batteries for use in industrial applications	DC 1 200 V, 400 A or less	N
KS C IEC 62619:2017	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for secondary lithium cells and batteries, for use in industrial applications	DC 1 200 V, 400 A or less	N
KS C IEC 62620:2014	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Secondary lithium cells and batteries for use in industrial applications	DC 1 200 V, 400 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
K 10024:2012	Electrical materials and components	Safety requirements of Hazardous substance for Sealed secondary batteries	12 V	N
KC 62619:2019	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for secondary lithium cells and batteries, for use in industrial applications	DC 1 500 V, 400 A or less	N
KC 62133:2019	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for portable sealed secondary cell, and for batteries made from them, for use in portable application	DC 180 V, 200 A or less	N
KC 62133-2:2020	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolyte - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable application - Part2:Lithium systems	DC 180 V, 200 A or less	N
KS C IEC 62133-1:2017	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for portable sealed secondary cell, and for batteries made from them, for use in portable application - Part 1:Nickel systems	DC 180 V, 200 A or less	N
KS C IEC 62133-2:2017	Electrical materials and components	Secondary cells and batteries containing alkaline or other non-acid electrolytes-Safety requirements for portable sealed secondary cell, and for batteries made from them, for use in portable application - Part 2:Lithium systems	DC 180 V, 200 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No.2020-0229 (12.30.2020.)	Electrical materials and components	Safety standards for children's products subject to safety verification Annex 6 Toy Chapter2 Mechanical•Physical Status Supplement A(Standard)-Electric Toys A.3 Secondary Cellsand Batteries Safety Requirements A.4 Testing method of toys included secondary Cellsor Battery	DC 180 V, 200 A or less	N
MOTIE Notice No.2021-0230 (12.29.2021.)	Electrical materials and components	Safety standards for children's products subject to safety verification Annex 6 Toy Chapter2 Mechanical•Physical Status Supplement A(Standard)-Electric Toys A.3 Secondary Cellsand Batteries Safety Requirements A.4 Testing method of toys included secondary Cellsor Battery	DC 180 V, 200 A or less	N
MOTIE Notice No.2022-0221 (12.14.2022.)	Electrical materials and components	Safety standards for children's products subject to safety verification Annex 6 Toy Chapter2 Mechanical•Physical Status Supplement A(Standard)-Electric Toys A.3 Secondary Cellsand Batteries Safety Requirements A.4 Testing method of toys included secondary Cellsor Battery	DC 180 V, 200 A or less	N
SPS-C KBIA - 10104 - 03 - 7312:2018	Electrical materials and components	Secondary lithium-ion battery system for battery energy storage systems - performance and safety requirements	DC 1 500 V, 400 A or less	N
KS C 8504:2015	Electrical materials and components	Lead-acid batteries for automobiles [Exception] 9.7 Cycletest 9.9 Dryroom temperature test ability test	12 V, 200 A	N
KS C 8505:2008	Electrical materials and components	Stationary lead-acid batteries [Exception] 9.6 Explosion proof performance test 9.7 Splash proof performance test	6 V, 200 A	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8511:2018	Electrical materials and components	Batteries for motor train [Exception] 6.3 Cycle test	12 V, 200 A	N
KS C 8513:2019	Electrical materials and components	Alkaline primary cells and batteries	1.55 V	
KS C 8517:2018	Electrical materials and components	Vented nickel-cadmium prismatic secondary single cells [Exception] 7.3.11 Electrolyte conservation	1.2 V, 200 A	N
KS E 6008:2018	Electrical materials and components	Lead-acid traction batteries [Exception] 5.1 Capacity test	-15 °C ~ 45 °C	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
RRA Notice No. 2020-7 (10.20.2020.)	Wired/Wireless communication devices	Evaluate the suitability of broadcasting and communication equipment Notice	electromagnetic waves suitability registration	N
CISPR 11:2019	Electrical machinery for industries, Electrical machinery for households, Medical devices	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [exception] 30 m test method	CE:(0.15 ~ 30) MHz RE:(0.03 ~ 18) GHz	N
CISPR 14-1:2020	Electrical machinery for households	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus-Part 1:Emission	RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.15 ~ 30) MHz	N
CISPR 14-2:2020	Electrical machinery for households	Electromagnetic Compatibility - Requirements for Household Appliances, Electric Tools and Similar Apparatus-Part 2:Immunity-Product Family Standard	ESD:±(4 ~ 8) kV RS:(0.08~6)GHz EFT:±(0.5~1)kV SURGE:±(1~2)kV CS:(0.15~230)MHz V-DIP:notmorethan 16Aperphase	N
EN 55011:2017	Electrical machinery for industries, Electrical machinery for households, Medical devices	Industrial, scientific and medical equipment. Radio-frequency disturbance characteristics. Limits and methods of measurement [exception] 30 m test method	CE:(0.15 ~ 30) MHz, RE:(0.03 ~ 18) GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 55014-1:2017	Electrical machinery for households	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Emission	RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.15 ~ 30) MHz	N
EN 55014-2:2015	Electrical machinery for households	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Immunity. Product family standard	ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV SURGE:±(1 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16A per phase	N
EN 61000-3-2:2014	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-2:Limits-Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	input current ≤ 16 A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-3-3:2019	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-3:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	input current ≤ 16 A per phase	N
EN 61000-3-11:2019	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-11:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-Equipment with rated current ≤ 75 A and subject to conditional connection	input current ≤ 75 A	N
EN 61000-3-12:2011	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-12:Limits-Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	input current > 16 A and ≤ 75 A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-4-11:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Voltage dips, short interruptions and voltage variations immunity tests	DIP:16 A or less	N
EN 61000-4-2:2009	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Electrostatic discharge immunity test	ESD:±(2 ~ 8) kV	N
EN 61000-4-3:2010	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Radiated, radio-frequency, electromagnetic field immunity test	RS:(0.08 ~ 6) GHz, (1 ~ 10) V/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-4-4:201 2	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Electrical fast transient / burst immunity test	EFT: $\pm(0.25 \sim 4)$ kV	N
EN 61000-4-5:201 7	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Surge immunity test	Surge: $\pm(0.5 \sim 5)$ kV	N
EN 61000-4-6:201 5	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Immunity to conducted disturbances, induced by radio-frequency fields	CS:(0.15 ~ 80) MHz, (1 ~ 10) V/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-4-8:2010	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC). Testing and measurement techniques. Power frequency magnetic field immunity test	PFM:(1 ~ 30) A/m, 50 Hz / 60 Hz	N
EN IEC 61000-6-1:2019	Electrical machinery for households	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
EN IEC 61000-6-2:2019	Electrical equipments for industrial	Electromagnetic compatibility (EMC). Generic standards. Immunity for industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(1 ~ 2) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN 61000-6-3:201 2	Electrical machinery for households	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments	Frequency:CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz	N
EN IEC 61000-6-4:201 9	Electrical equipments for industrial	Electromagnetic compatibility (EMC). Generic standards. Emission standard for industrial environments	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz	N
IEC 61000-3-2:201 8	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-2:Limits-Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	input current ≤ 16 A per phase	N
IEC 61000-3-3:201 9	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-3:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	input current ≤ 16 A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-3-11:20 17	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-11:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-Equipment with rated current ≤ 75 A and subject to conditional connection	input current ≤ 75 A	N
IEC 61000-3-12:20 11	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 3-12:Limits-Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	input current > 16 A and ≤ 75 A per phase	N
IEC 61000-4-11:20 20	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-11:Testing and measurement techniques-Voltage dips, short interruptions and voltage variations immunity tests	DIP:16 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-4-2:2008	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-2:Testing and measurement techniques-Electrostatic discharge immunity test	ESD: $\pm(2 \sim 8)$ kV	N
IEC 61000-4-3:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-3:Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test	RS:(0.08 ~ 6) GHz, (1 ~ 10) V/m	N
IEC 61000-4-4:2012	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-4:Testing and measurement techniques-Electrical fast transient / burst immunity test	EFT: $\pm(0.25 \sim 4)$ kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-4-5:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-5:Testing and measurement techniques-Surge immunity test	Surge: $\pm(0.5 \sim 5)$ kV	N
IEC 61000-4-6:2013	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-6:Testing and measurement techniques-Immunity to conducted disturbances, induced by radio-frequency fields	CS:(0.15 ~ 80) MHz, (1 ~ 10) V/m	N
IEC 61000-4-8:2009	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility (EMC)-Part 4-8:Testing and measurement techniques-Power frequency magnetic field immunity test	PFM:(1 ~ 30) A/m, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61000-6-1:201 6	Electrical machinery for households	Electromagnetic compatibility (EMC)-Part 6-1:Generic standards-Immunity for residential, commercial and light-industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
IEC 61000-6-2:201 6	Electrical equipments for industrial	Electromagnetic compatibility (EMC)-Part 6-2:Generic standards-Immunity for industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(1 ~ 2) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m V-DIP:not more than 16A per phase	N
IEC 61000-6-3:202 0	Electrical machinery for households	Electromagnetic compatibility (EMC)-Part 6-3:Generic standards-Emission standard for residential, commercial and light-industrial environments	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz DISCONTINUOUS DISTURBANCE:(0.15 ~ 30) MHz	N
IEC 61000-6-4:201 8	Electrical equipments for industrial	Electromagnetic compatibility (EMC)-Part 6-4:Generic standards-Emission standard for industrial environments	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62040-2:2016	Electrical equipments for industrial	Uninterruptible power systems (UPS)-Part 2:Electromagnetic compatibility (EMC) requirements	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(1 ~ 2) kV Surge:±(1 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m	N
KN 11:2017	Medical Devices	Test methods of EMC for industrial, scientific medical equipment [exception]30mtestmethod	CE:(0.15 ~ 30) MHz, RE:(0.03 ~ 18) GHz	N
KN 14-1:2017	Electrical machinery for households	Test method of radio disturbance for household appliances, electric tools similar apparatus	RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.15 ~ 30) MHz	N
KN 14-2:2017	Electrical machinery for households	Test method of immunity for household appliances, electric tools similar apparatus	ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV SURGE:±(1 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KN 61000-4-11:20 08	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Test method of voltage dips short interruptions immunity	DIP:16 A or less	N
KN 61000-4-2:201 3	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Test method of electrostatic discharge immunity	ESD:±(2 ~ 8) kV	N
KN 61000-4-3:201 1	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Test method of radiated radio-frequency, electromagnetic field immunity	RS:(0.08 ~ 6) GHz, (1 ~ 10) V/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KN 61000-4-4:201 1	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Test method of electrical fast transient/burst immunity	EFT: $\pm(0.25 \sim 4)$ kV	N
KN 61000-4-5:200 8	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Test method of surge immunity	Surge: $\pm(0.5 \sim 5)$ kV	N
KN 61000-4-6:201 3	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Test method of Immunity to conducted disturbances, induced by radio-frequency fields	CS:(0.15 ~ 80) MHz, (1 ~ 10) V/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KN 61000-4-8:201 3	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Test method of power frequency magnetic field immunity	PFM:(1 ~ 30) A/m, 50 Hz / 60 Hz	N
KN 61000-6-1:201 6	Electrical machinery for households	Test method of immunity for residential, commercial light-industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N
KN 61000-6-2:201 7	Electrical equipments for industrial	Test method of immunity for industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(1 ~ 2) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KN 61000-6-3:2012	Electrical machinery for households	Test Methods of radio disturbance for residential, commercial light-industrial environment	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz	N
KN 61000-6-4:2012	Electrical equipments for industrial	Test Methods of radio disturbance for industrial environments	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz	N
KN 62040-2:2012	Electrical equipments for industrial	Test Methods of radio disturbance of EMC for Uninterruptible Power System(UPS)	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(1 ~ 2) kV Surge:±(1 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m	N
KN 12015:2014	Electrical equipments for industrial	Test method of radio disturbance for elevator	RE:(0.03 ~ 1) GHz CE:(0.15 ~ 30) MHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz	N
KN 12016:2014	Electrical equipments for industrial	Test method of Protection for elevator	ESD:±(4 ~ 15) kV RS:(80 ~ 2 675) MHz EFT:±(0.5 ~ 4) kV Surge:±(1 ~ 2.5) kV CS:(0.15 ~ 80) MHz DIP:16 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS B 6945:2019	Electrical equipments for industrial	Electromagnetic compatibility-Product family standard for lifts, escalators and passenger conveyors-Immunity	ESD: $\pm(4 \sim 15)$ kV RS:(80 \sim 2.675) MHz EFT: $\pm(0.5 \sim 4)$ kV Surge: $\pm(1 \sim 2.5)$ kV CS:(0.15 \sim 80) MHz DIP:16 A or less	N
KS B 6955:2019	Electrical equipments for industrial	Electromagnetic compatibility-Product family standard for lifts, escalators and passenger conveyors-Emission	RE:(0.03 \sim 1) GHz CE:(0.15 \sim 30) MHz DISCONTINUOUS DISTURBANCE:(0.15 \sim 30) MHz	N
KS C 9040-2:2017	Electrical equipments for industrial	Uninterruptible power systems(UPS)-Part 2:Electromagnetic compatibility(EMC) requirements	Frequency: CE:(0.15 \sim 30) MHz RE:(0.03 \sim 1) GHz ESD: $\pm(4 \sim 8)$ kV RS:(0.08 \sim 1) GHz EFT: $\pm(1 \sim 2)$ kV Surge: $\pm(1 \sim 2)$ kV CS:(0.15 \sim 80) MHz PFM:(0 \sim 30) A/m	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-3-2:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 3-2:Limits-Limits for harmonic current emissions(equipment input current ≤ 16 A per phase)	input current ≤ 16 A per phase	N
KS C 9610-3-3:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 3-3:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	input current ≤ 16 A per phase	N
KS C 9610-3-11:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 3-11:Limits-Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems-Equipment with rated current ≤ 75 A and subject to conditional connection	input current ≤ 75 A	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-3-12:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 3-12:Limits-Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	input current > 16 A and ≤ 75 A per phase	N
KS C 9610-4-11:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-11:Testing and measurement techniques-Voltage dips, short interruptions and voltage variations immunity tests	DIP:16 A or less	N
KS C 9610-4-2:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-2:Testing and measurement techniques-Electrostatic discharge immunity test	ESD:±(2 ~ 8) kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-4-3:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-3:Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test	RS:(0.08 ~ 6) GHz, (1 ~ 10) V/m	N
KS C 9610-4-4:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-4:Testing and measurement techniques-Electrical fast transient/burst immunity test	EFT:±(0.25 ~ 4) kV	N
KS C 9610-4-5:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-5:Testing and measurement techniques-Surge immunity test	Surge ±(0.5 ~ 5) kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-4-6:2020	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-6:Testing and measurement techniques-Immunity to conducted disturbances, induced by radio-frequency fields	CS:(0.15 ~ 80) MHz, (1 ~ 10) V/m	N
KS C 9610-4-8:2017	Electrical machinery for industries, Electrical machinery for households, Wired/Wireless communication devices, Lighting devices, Medical devices	Electromagnetic compatibility(EMC)-Part 4-8:Testing and measurement techniques-Power frequency magnetic field immunity test	PFM:(1 ~ 30) A/m, 50 Hz / 60 Hz	N
KS C 9610-6-1:2019	Electrical machinery for households	Electromagnetic compatibility(EMC)-Part 6-1:Generic standards-Immunity for residential, commercial and light-industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(0.5 ~ 1) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 3) A/m V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9610-6-2:2019	Electrical equipments for industrial	Electromagnetic compatibility(EMC)-Part 6-2:Generic standards-Immunity for industrial environments	ESD:±(4 ~ 8) kV RS:(0.08 ~ 6) GHz EFT:±(1 ~ 2) kV Surge:±(0.5 ~ 2) kV CS:(0.15 ~ 80) MHz PFM:(0 ~ 30) A/m V-DIP:not more than 16A per phase	N
KS C 9610-6-3:2017	Electrical machinery for households	Electromagnetic compatibility(EMC)-Part 6-3:Generic standards-Emission standard for residential, commercial and light industrial environments	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz	N
KS C 9610-6-4:2017	Electrical equipments for industrial	Electromagnetic compatibility(EMC)-Part 6-4:Generic standards-Emission standard for industrial environments	Frequency: CE:(0.15 ~ 30) MHz RE:(0.03 ~ 6) GHz	N
KS C 9811:2019	Electrical machinery for industries, Electrical machinery for households, Medical devices	Industrial, scientific and medical equipment(ISM)-Radio-frequency disturbance characteristics-Limits and methods of measurement [exception] 30 m test method	CE:(0.15 ~ 30) MHz, RE:(0.03 ~ 18) GHz	N
KS C 9814-1:2020	Electrical machinery for households	Electromagnetic compatibility(EMC)-Requirements for household appliances, electric tools and similar apparatus-Part 1:Emission	RP:(30 ~ 300) MHz DISCONTINUOUS DISTURBANCE: (0.15 ~ 30) MHz RE:(0.03 ~ 1) GHz CE:(0.15 ~ 30) MHz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9814-2:2020	Electrical machinery for households	Electromagnetic compatibility-Requirements for household appliances, electric tools and similar apparatus-Part 2:Immunity-Product family standard	ESD:±(4 ~ 8) kV RS:(0.08 ~ 1) GHz EFT:±(0.5 ~ 1) kV SURGE:±(1 ~ 2) kV CS:(0.15 ~ 230) MHz V-DIP:not more than 16A per phase	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
MIL-STD-461E :1999	Measuring instruments, Electrical machinery for industries, Wired/Wireless communication devices, Lighting devices	DEPARTMENT OF DEFENSE INTERFACE STANDARD,REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFACE CHARACTERISTICSOF SUBSYSTEMS AND EQUIPMENT 5.4 CE101, conducted emissions, power leads, 30 Hz ~ 10 kHz 5.5 CE102, conducted emissions, power leads, 10 kHz ~ 10 MHz 5.6 CE106, conducted emissions, antenna terminal, 10 kHz ~ 40 GHz 5.7 CS101, conducted susceptibility, power leads, 30 Hz ~ 150 kHz 5.8 CS103, conducted susceptibility, Antenna port, intermodulation, 15 kHz ~ 10 GHz 5.9 CS104, conducted susceptibility, Antenna port, Rejection of undesired signals 30 Hz ~ 20 GHz 5.10 CS105, conducted susceptibility, Antenna port, cross modulation, 30 Hz ~ 20 GHz 5.11 CS109, conducted susceptibility, structure current, 60 Hz ~ 100 kHz 5.12 CS114, conducted susceptibility, bulk cable injection, 10 kHz ~ 200 MHz 5.13 CS115, Conducted susceptibility bulk cable injection, impulse excitation 5.14 CS116, conducted susceptibility, damped sinusoidal transients, cables and power leads, 10 kHz ~ 100 MHz 5.15 RE101, radiated emissions, magnetic field, 30 Hz ~ 100 kHz 5.16 RE102, radiated emissions, electric field, 10 kHz ~ 18 GHz 5.18 RS101, radiated susceptibility, magnetic field, 30 Hz ~ 100 kHz 5.19 RS103, radiated susceptibility, electric field, 2 MHz ~ 40 GHz	30 Hz ~ 10 kHz 10 kHz ~ 10 MHz 10 kHz ~ 40 GHz 30 Hz ~ 150 kHz 15 kHz ~ 10 GHz 30 Hz ~ 20 GHz 30 Hz ~ 20 GHz 60 Hz ~ 100 kHz 10 kHz ~ 200 MHz 5 A1 0 A 30 Hz ~ 100 kHz 10 kHz ~ 18 GHz 30 Hz ~ 100 kHz 2 MHz ~ 18 GHz (Exception: 2 MHz ~ 100 MHz, 200 V/m)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
MIL-STD-461F :2007	Measuring instruments, Electrical machinery for industries, Wired/Wireless communication devices, Lighting devices	DEPARTMENT OF DEFENSE INTERFACE STANDARD,REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICSOF SUBSYSTEMS AND EQUIPMENT 5.4 CE101, conducted emissions, power leads, 30 Hz ~ 10 kHz 5.5 CE102, conducted emissions, power leads, 10 kHz ~ 10 MHz 5.6 CE106, conducted emissions, antenna terminal, 10 kHz ~ 40 GHz 5.7 CS101, conducted susceptibility, power leads, 30 Hz ~ 150 kHz 5.8 CS103, conducted susceptibility, Antenna port, intermodulation, 15 kHz ~ 10 GHz 5.9 CS104, conducted susceptibility, Antenna port, Rejection of undesired signals 30 Hz ~ 20 GHz 5.10 CS105, conducted susceptibility, Antenna port, cross modulation 30 Hz ~ 20 GHz 5.11 CS106, conducted susceptibility, Transients power leads 5.12 CS109, conducted susceptibility, structure current, 60 Hz ~ 100 kHz 5.13 CS114, conducted susceptibility, bulk cable injection, 10 kHz ~ 200 MHz 5.14 CS115, Conducted susceptibility bulk cable injection, impulse excitation 5.15 CS116, conducted susceptibility, damped sinusoidal transients, cables and power leads, 10 kHz ~ 100 MHz 5.16 RE101, radiated emissions, magnetic field, 30 Hz ~ 100 kHz 5.17 RE102, radiated emissions, electric field, 10 kHz ~ 18 GHz 5.19 RS101, radiated susceptibility, magnetic field, 30 Hz ~ 100 kHz 5.20 RS103, radiated susceptibility, electric field, 2 MHz ~ 40 GHz (Exception:2 MHz ~ 100 MHz, 200 V/m)	30 Hz ~ 10 kHz 10 kHz ~ 10 MHz 10 kHz ~ 40 GHz 30 Hz ~ 150 kHz 15 kHz ~ 10 GHz 30 Hz ~ 20 GHz 30 Hz ~ 20 GHz 400 V 60 Hz ~ 100 kHz 4 kHz ~ 200 MHz 5 A 10 kHz ~ 100 MHz 30 Hz ~ 100 kHz 10 kHz ~ 18 GHz 30 Hz ~ 100 kHz 2 MHz ~ 18 GHz (Exception: 2 MHz ~ 100 MHz, 200 V/m)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
MIL-STD-461G :2015	Measuring instruments, Electrical machinery for industries, Wired/Wireless communication devices, Lighting devices	DEPARTMENT OF DEFENSE INTERFACE STANDARD,REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFACE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT 5.4 CE101, conducted emissions, power leads, 30 Hz ~ 10 kHz 5.5 CE102, conducted emissions, power leads, 10 kHz ~ 10 MHz 5.6 CE106, conducted emissions, antenna terminal, 10 kHz ~ 40 GHz 5.7 CS101, conducted susceptibility, power leads, 30 Hz ~ 150 kHz 5.8 CS103, conducted susceptibility, Antenna port, intermodulation, 15 kHz ~ 10 GHz 5.9 CS104, conducted susceptibility, Antenna port, Rejection of undesired signals 30 Hz ~ 20 GHz 5.10 CS105, conducted susceptibility, Antenna port, cross modulation 30 Hz ~ 20 GHz 5.11 CS109, conducted susceptibility, structure current, 60 Hz ~ 100 kHz 5.12 CS114, conducted susceptibility, bulk cable injection, 10 kHz ~ 200 MHz 5.13 CS115, Conducted susceptibility bulk cable injection, impulse excitation 5.14 CS116, conducted susceptibility, damped sinusoidal transients, cables and power leads, 10 kHz ~ 100 MHz 5.16 CS118, personnel borne electrostatic discharge 5.17 RE101, radiated emissions, magnetic field, 30 Hz ~ 100 kHz 5.18 RE102, radiated emissions, electric field, 10 kHz ~ 18 GHz 5.20 RS101, radiated susceptibility, magnetic field, 30 Hz ~ 100 kHz 5.21 RS103, radiated susceptibility, electric field, 2 MHz ~ 40 GHz (Exception 2 MHz ~ 100 MHz, 200 V/m)	30 Hz ~ 10 kHz 10 kHz ~ 10 MHz 10 kHz ~ 40 GHz 30 Hz ~ 150 kHz 15 kHz ~ 10 GHz 30 Hz ~ 20 GHz 30 Hz ~ 20 GHz 60 Hz ~ 100 kHz 4 kHz ~ 200 MHz 5 A 10 A ± 30 kV 30 Hz ~ 100 kHz 10 kHz ~ 18 GHz 30 Hz ~ 100 kHz 2 MHz ~ 18 GHz (Exception:2 MHz ~ 100 MHz, 200 V/m)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
CISPR 25:2016	Automobiles and related products	Vehicles, boats and internal combustion engines-Radio disturbance characteristics-Limits and methods of measurement for the protection of on-board receivers	RE:150 kHz ~ 18 GHz CE:150 kHz ~ 108 MHz	N
ISO 10605:2014	Automobiles and related products	Road vehicles-Test methods for electrical disturbances from electrostatic discharge	Level:max. ± 30 kV	N
ISO 11452-4:2020	Automobiles and related products	Road vehicles-Component test methods for electrical disturbances from narrowband radiated electromagnetic energy-Part 4:Harness excitation methods	BCI:0.1 MHz ~ 400 MHz Level:400 mA	N
ISO 11452-8:2015	Automobiles and related products	Road vehicles-Component test methods for electrical disturbances from narrowband radiated electromagnetic energy-Part 8:Immunity to magnetic fields	Frequency:DC to 15 kHz Level:max. 1 000 A/m	N
ISO 11452-9:2012	Automobiles and related products	Road vehicles-Component test methods for electrical disturbances from narrowband radiated electromagnetic energy-Part 9:Portable transmitters	Max power 20 W	N
ISO 16750-2:2012	Automobiles and related products	Road vehicles-Environmental conditions and testing for electrical and electronic equipment-Part 2:Electrical loads	12 V and 24 V system	N
ISO 7637-2:2011	Automobiles and related products	Road vehicles-Electrical disturbances from conduction and coupling-Part 2:Electrical transient conduction along supply lines only	12 V and 24 V system	N
ISO 7637-3:2016	Automobiles and related products	Road vehicles-Electrical disturbances from conduction and coupling-Part 3:Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	Fast a :-80 V Fast b :+80 V	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS R ISO 11452-2:2013	Automobiles and related products	Road vehicles-Component test methods for electrical disturbances from narrowband radiated electromagnetic energy-Part 2:Absorber-lined shielded enclosure	Frequency: 80 MHz ~ 3 GHz Level:max.100V/m	N
ISO 11452-2:2019	Automobiles and related products	Road vehicles -- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -- Part 2: Absorber-lined shielded enclosure	Frequency: 80 MHz ~ 3 GHz Level:max.100V/m	N
KS R ISO 11452-4:2013	Automobiles and related products	Road vehicles-Component test methods for electrical disturbances from narrowband radiated electromagnetic energy-Part 4:Harness excitation methods	BCI:1 MHz ~ 400 MHz Level:400 mA	N
KS R ISO 11452-8:2013	Automobiles and related products	Road vehicles-Component test methods for electrical disturbances from narrowband radiated electromagnetic energy-Part 8:Immunity to magnetic fields	Frequency: DC to 15 kHz Level:max. 1 000 A/m	N
KS R ISO 11452-9:2012	Automobiles and related products	Road vehicles-Component test methods for electrical disturbances from narrowband radiated electromagnetic energy-Part 9:Portable transmitters	Max power 20 W	N
KS R ISO 7637-2:2015	Automobiles and related products	Road vehicles-Electrical disturbances from conduction and coupling-Part 2:Electrical transient conduction along supply lines only	12 V and 24 V system	N
KS R ISO 7637-3:2015	Automobiles and related products	Road vehicles-Electrical disturbances from conduction and coupling-Part 3:Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	Fast a :-80 V Fast b:+80 V	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
EN IEC 61851-21-2: 2021	Automobiles and related products	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off-board electric vehicle charging systems	Electrostatic discharge (ESD) : $\pm(4 \sim 8)$ kV Radiated RF fields : (0.08 ~ 6) GHz, (3 ~ 10) V/m Magnetic fields : (3 ~ 100) A/m, 50 Hz, 60 Hz Electrical fast transients/bursts : $\pm(1 \sim 4)$ kV Voltage surges : $\pm(0.5 \sim 4)$ kV Conducted RF fields : (0.15 ~ 80) MHz, (3 ~ 10) V Voltage dips and interruptions : (3 ~ 100) A Harmonic currents : (3 ~ 75) A Voltage fluctuations and flicker : (3 ~ 75) A Conducted disturbances : (0.15 ~ 30) MHz Radiated disturbances : (0.03 ~ 6) GHz Radiated disturbance test for keyless entry : (2 ~ 185) kHz Transient emissions : (5 ~ 2 000) V	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61851-21-2: 2018	Automobiles and related products	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off-board electric vehicle charging systems	Electrostatic discharge(ESD) : $\pm(4 \sim 8)$ kV Radiated RF fields : (0.08 ~ 6) GHz, (3 ~ 10) V/m Magnetic fields : (3 ~ 100) A/m, 50 Hz, 60 Hz Electrical fast transients/bursts : $\pm(1 \sim 4)$ kV Voltage surges : $\pm(0.5 \sim 4)$ kV Conducted RF fields : (0.15 ~ 80) MHz, (3 ~ 10) V Voltage dips and interruptions : (3 ~ 100) A Harmonic currents : (3 ~ 75) A Voltage fluctuations and flicker : (3 ~ 75) A Conducted disturbances : (0.15 ~ 30) MHz Radiated disturbances : (0.03 ~ 6) GHz Radiated disturbance test for keyless entry : (2 ~ 185) kHz Transient emissions : (5 ~ 2 000) V	N

Korea Laboratory Accreditation Scheme

No. KT005

03.011 EMC(Electromagnetic Compatibility)

Test method	Products and materials	Standard designation	Test range	Field testing
KS R IEC 61851-21-2:20 18	Automobiles and related products	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off-board electric vehicle charging systems	Electrostatic discharge (ESD) : \pm (4 ~ 8) kV Radiated RF fields: (0.08 ~ 6) GHz, (3 ~ 10) V/m Magnetic fields: (3 ~ 100) A/m, 50 Hz, 60 Hz Electrical fast transients/bursts: \pm (1 ~ 4) kV Voltage surges: \pm (0.5 ~ 4) kV Conducted RF fields: (0.15 ~ 80) MHz, (3 ~ 10) V Voltage dips and interruptions: (3 ~ 100) A Harmonic currents: (3 ~ 75) A Voltage fluctuations and flicker: (3 ~ 75) A Conducted disturbances: (0.15 ~ 30) MHz Radiated disturbances: (0.03 ~ 6) GHz Radiated disturbance test for key less entry (2 ~ 185) kHz Transient emissions (5 ~ 2 000) V	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8564:2021	Electrical machinery for industries	Small scale photovoltaic inverter(grid-tied type, stand-alone type)	rated power 10 kW or less	N
KS C 8565:2021	Electrical machinery for industries	Medium and large size photovoltaic inverter(grid-tied type, stand-alone type)	rated power 10 kW over 250 kW or less	N
IEC 61727:2004	Electrical machinery for industries	Photovoltaic (PV) systems-Characteristics of the utility interface	rated power 1000 kW or less input voltage 1 500 V or less	N
IEC 62109-1:2010	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 1:General requirements	rated power 1000 kW or less input voltage 1 500 V or less	N
IEC 62109-2:2011	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 2:Particular requirements for inverters	rated power 1000 kW or less input voltage 1 500 V or less	N
IEC 62116:2014	Electrical machinery for industries	Utility-interconnected photovoltaic inverters-Test procedure of islanding prevention measures	rated power 1000 kW or less input voltage 1 500 V or less	N
KS C IEC 61727:1995	Electrical machinery for industries	Photovoltaic (PV) systems-Characteristics of the utility interface	rated power 1000 kW or less input voltage 1 500 V or less	N
KS C IEC 62109-1:2010	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 1:General requirements	rated power 1000 kW or less input voltage 1 500 V or less	N
KS C IEC 62109-2:2011	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 2:Particular requirements for inverters	rated power 1000 kW or less input voltage 1 500 V or less	N
KS C IEC 62116:2015	Electrical machinery for industries	Utility-interconnected photovoltaic inverters-Test procedure of islanding prevention measures	rated power 1000 kW or less input voltage 1 500 V or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8561:2020	Electrical machinery for industries	Crystalline silicone photovoltaic(PV) module (performance)	max voltage 300 V or less max current 30 A or less	N
KS C 8563:2015	Electrical machinery for industries	Photovoltaic(PV) module(safety qualification)	max voltage 300 V or less max current 30 A or less	N
KS C 8577:2016	Electrical machinery for industries	Building integrated photovoltaics(BIPV) modules-The requirement of performance evaluation	max voltage 300 V or less max current 30 A or less	N
IEC 60904-1:2020	Electrical machinery for industries	Photovoltaic devices-Part 1:Measurement of photovoltaic current-voltage characteristics	max voltage 300 V or less max current 24 A or less	N
IEC 61215-1:2021	Electrical machinery for industries	Terrestrial photovoltaic (PV) modules-Design qualification and type approval-Part 1:Test requirements	max voltage 300 V or less max current 24 A or less	N
IEC 61215-1-1:2021	Electrical machinery for industries	Terrestrial photovoltaic (PV) modules-Design qualification and type approval-Part 1-1:Special requirements for testing of crystalline silicon photovoltaic (PV) modules	max voltage 300 V or less max current 24 A or less	N
KS C IEC 61730-1:2014	Electrical machinery for industries	Photovoltaic (PV) module safetyqualification-Part 1:Requirements for construction	max voltage 300 V or less max current 30 A or less	N
KS C IEC 61730-2:2014	Electrical machinery for industries	Photovoltaic (PV) module safety qualification-Part 2:Requirements for testing	max voltage 300 V or less max current 30 A or less	N
KS C 8562:2015	Electrical machinery for industries	Thin film photovoltaic(PV) module(performance)	max voltage 300 V or less max current 30 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61215-1-3:2021	Electrical machinery for industries	Terrestrial photovoltaic (PV) modules-Design qualification and type approval-Part 1-3:Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules	max voltage 300 V or less max current 30 A or less	N
IEC 61215-1-4:2021	Electrical machinery for industries	Terrestrial photovoltaic (PV) modules-Design qualification and type approval-Part 1-4:Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules	max voltage 300 V or less max current 30 A or less	N
MOTIE Notice No. 2021-68 (04.20.2021.)	Electrical machinery for industries	The provisions for certification of high efficiency energy-using appliances program - Energy Device(ESS)	rated power 1 000 kW or less, input volatage 1 500 V or less	N
KS C 8560:2020	Electrical machinery for industries	Photovoltaic microinverter(grid-tied type, stand-alone type)	rated power 1 kW or less(DC input voltage 150 V or less, DC output voltage 380 V or less)	N
KS C 8567:2019	Electrical machinery for industries	Photovoltaic combiner box	DC input volatage 1 500 V or less	N
SPS-SGSF-025-4-1972:2019	Electrical machinery for industries	Performance Requirements for Power Conversion Devices for Electrical Energy Storage Systems	rated power 1 000 kW or less input volatage1 500 V or less	N
KS C IEC 61683:1999	Electrical machinery for industries	Photovoltaic systems-Power conditioners-Procedure for measuring efficiency	rated power 1 000 kW or less input volatage1 500 V or less	N
IEC 61683:1999	Electrical machinery for industries	Photovoltaic systems-Power conditioners-Procedure for measuring efficiency	rated power 1 000 kW or less input volatage1 500 V or less	N
IEC 61215-2:2021	Electrical machinery for industries	Terrestrial photovoltaic (PV) modules-Design qualification and type approval-Part 2:Test procedures	max voltage 200 V or less max current 24 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61730-1:2016	Electrical machinery for industries	Photovoltaic (PV) module safety qualification-Part 1:Requirements for construction	max voltage 300 V or less max current 30 A or less	N
IEC 61730-2:2016	Electrical machinery for industries	Photovoltaic (PV) module safety qualification-Part 2:Requirements for testing	max voltage 300 V or less max current 30 A or less	N
KS C IEC 60904-1:2009	Electrical machinery for industries	Photovoltaic devices-Part 1:Measurement of photovoltaic current-voltage characteristics	max voltage 200 V or less max current 24 A or less	N
KS C IEC 61215:2005	Electrical machinery for industries	Terrestrial photovoltaic (PV) modules-Design qualification and type approval	max voltage 200 V or less max current 24 A or less	N
KS C IEC 61727:2005	Electrical machinery for industries	Photovoltaic (PV) systems-Characteristics of the utility interface	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
KS C IEC 62109-1:2017	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 1:General requirements	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
KS C IEC 62109-2:2018	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 2:Particular requirements for inverters	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
KS C IEC 62116:2015	Electrical machinery for industries	Utility-interconnected photovoltaic inverters-Test procedure of islanding prevention measures	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
K 62477-1:2011	Electrical machinery for industries	Safety requirements for power electronic converter systems and equipment Part 1:General	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
IEC 61727 Ed.2.0b:2004	Electrical machinery for industries	Photovoltaic (PV) systems-Characteristics of the utility interface	nominal power less than 1000 kW DC input Voltage less than 1500 V	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62109-1 Ed. 1.0b:2010	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 1:General requirements	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
IEC 62109-2 Ed. 1.0b:2011	Electrical machinery for industries	Safety of power converters for use in photovoltaic power systems-Part 2:Particular requirements for inverters	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
IEC 62116 Ed. 2.0b:2014	Electrical machinery for industries	Utility-interconnected photovoltaic inverters-Test procedure of islanding prevention measures	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
IEC 62477-1:2016	Electrical machinery for industries	Safety requirements for power electronic converter systems and equipment-Part 1:General	nominal power less than 1000 kW DC input Voltage less than 1500 V	N
KC 60529:2015	Electrical machinery for industries	Degrees of protection provided by enclosures (IP Code)	nominal voltage less than 72.5 kV IP code less than IP 68	N
KS C IEC 60529:2013	Electrical machinery for industries	Degrees of protection provided by enclosures (IP Code)	nominal voltage less than 72.5 kV IP code less than IP 68	N
IEC 60529:1989+A MD1:1999+AM D2:2013	Electrical machinery for industries	Degrees of protection provided by enclosures (IP Code)	nominal voltage less than 72.5 kV IP code less than IP 68	N

Korea Laboratory Accreditation Scheme

No. KT005

**Branch Site-2. 57, Yangcheong 3-gil, Ochang-eup, Cheongwon-gun,
Chungcheongbuk-do, Republic of Korea**

03 Electric Test

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61439-1:2021	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 1:General rules [exception] 8.2.2 Protection against contact with live parts, ingress of solid foreign bodies and water 10.3 Degree of protection of assemblies	a.c. 600 V, 6 500 A or less	N
IEC 61439-2:2021	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 2:Power switchgear and controlgear assemblies [exception] 8.2.2 Protection against contact with live parts, ingress of solid foreign bodies and water 10.3 Degree of protection of assemblies	a.c. 600 V, 6 500 A or less	N
IEC 61439-3:2019	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 3:Distribution boards intended to be operated by ordinary persons(DBO)	a.c. 600 V, 6 500 A or less	N
IEC 61439-4:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 4:Particular requirements for assemblies for construction sites (ACS)	a.c. 600 V, 6 500 A or less	N
IEC 61439-5:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 5:Assemblies for power distribution in public networks	a.c. 600 V, 6 500 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61439-6:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 6:Busbar trunking systems (busways) [exception] 8.2.2 Protection against contact with live parts, ingress of solid foreign bodies and water 10.3 Degree of protection of assemblies	a.c. 600 V, 6 500 A or less	N
IEC 60898-1:2020	Wiring appliances	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations-Part 1:Circuit-breakers for a.c. operation	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
IEC 60947-1:2020	Wiring appliances	Low-voltage switchgear and controlgear-Part1:General rules [exception] 8.2.3, Enclosures for equipment Annex C.	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
IEC 60947-2:2019	Wiring appliances	Low-voltage switchgear and controlgear-Part 2:Circuit-breakers	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
IEC 60947-3:2020	Wiring appliances	Low-voltage switchgear and controlgear-Part 3:Switches, disconnectors, switch-disconnectors and fuse combination units [exception] 7.1.12 Degrees of protection of enclosed equipment	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
IEC 60947-4-1:2018	Wiring appliances	Low-voltage switchgear and controlgear-Part 4 - 1:Contactors and motor-starters-Electromechanical contactors and motor-starters [exception] 8.1.12 Degrees of protection of enclosed equipment	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61008-1:2016	Wiring appliances	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)-Part 1:General rules	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
IEC 61008-2-1:1990	Wiring appliances	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's). Part 2 - 1:Applicability of the general rules to RCCB's functionally independent of line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
IEC 61008-2-2:1990	Wiring appliances	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's). Part 2 - 2:Applicability of the general rules to RCCB's functionally dependent on line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
IEC 61009-1:2014	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)-Part 1:General rules	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
IEC 61009-2-1:1991	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's)-Part 2 - 1:Applicability of the general rules to RCBO's functionally independent of line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
IEC 61009-2-2:1991	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's)-Part 2 - 2:Applicability of the general rules to RCBO's functionally dependent on line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61540:1988	Wiring appliances	Electrical accessories-Portable residualcurrent devices without integral overcurrentprotecton for household and similar use(PRCDs)	a.c. 250 V, 16 A or less, rupturing capacity:50 000 A or less	N
K 60439-1:2002	Wiring appliances	Low-voltage switchgear and controlgearassemblies-Part 1:Type-tested and partiallytype-tested assemblies [exception] 8.2.7 Verification of degree of protection	a.c. 600 V, 6 500 A or less	N
KC 60439-2:2015	Wiring appliances	Low-voltage switchgear and controlgearassemblies-Part 2:Particular requirements for busbar trunking systems (busways) [exception] 8.2.7 Verification of degree of protection	a.c. 600 V, 6 500 A or less	N
KC 60439-3:2015	Wiring appliances	Low-voltage switchgear and control gear assemblies-Part 3:Particular requirements for low-voltage switchgear and control gear assemblies intended to be installed in places where unskilled persons have access for their use-Distribution boards	a.c. 600 V, 6 500 A or less	N
KC 60439-4:2015	Wiring appliances	Low-voltage switchgear and control gear assemblies-Part 4:Particular requirements for assemblies for construction sites	a.c. 600 V, 6 500 A or less	N
KC 60439-5:2015	Wiring appliances	Low-voltage switchgear and control gear assemblies-Part 5:Particular requirements for assemblies intended to be installed outdoors in public places-Cable distribution cabinets(CDCs) for power distribution in networks	a.c. 600 V, 6 500 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60898-1:2015	Wiring appliances	Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations-Part 1:Circuit – breakers for a.c. operation	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
K 60947-1:2011	Wiring appliances	Low-voltage switchgear and controlgear-Part 1:General rules [exception] 8.2.3 Enclosures for equipment Annex C.	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KC 60947-2:2022	Wiring appliances	Low-voltage switchgear and controlgear-Part 2:Circuit-breakers	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KC 60947-4-1:2015	Wiring appliances	Low-voltage switchgear and controlgear – Part 4 – 1:Contactors and motor-starters-Electromechanical contactors and motor-starters [exception] 8.1.11 Degrees of protection of enclosed equipment	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KC 61008-1:2015	Wiring appliances	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)-Part 1:General rules	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
KC 61008-2-1:2015	Wiring appliances	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's)-Part 2 – 1:Applicability of the general rules to RCCB's functionally independent of line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KC 61008-2-2:2015	Wiring appliances	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's)-Part 2 - 2:Applicability of the general rules to RCCB's functionally dependent on line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
K 61009-1:2011	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)-Part 1:General rules	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
KC 61009-2-1:2015	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's)-Part 2 - 1:Applicability of the general rules to RCBO's functionally independent of line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
KC 61009-2-2:2015	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's)-Part 2 - 2:Applicability of the general rules to RCBO's functionally dependent on line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
KS C 4613:2022	Wiring appliances	Circuit-breaker incorporating residual current protection for industrial uses(CBR)	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C 4621:2018	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household uses(RCBO)	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C 4620:2019	Wiring appliances	Low-voltage Air Circuit-Breaker(ACB)	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N

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Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8321:2019	Wiring appliances	Molded case circuit-breaker for industrial uses(MCCB)	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C 8332:2018	Wiring appliances	Miniature circuit-breaker for overcurrent protection for household uses(MCB)	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C 8326:2021	Wiring appliances	Low voltage panelboards for household use	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 60439-1:2018	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 1:Type-tested and partially type-tested assemblies [exception] 8.2.7 Verification of degree of protection	a.c. 600 V,6 500 A or less	N
KS C IEC 60439-2:2018	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 2:Particular requirements for busbar trunking systems(busways) [exception] 8.2.7 Verification of degree of protection	a.c. 600 V,6 500 A or less	N
KS C IEC 60439-4:2021	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 4:Particular requirements for assemblies for construction sites	a.c. 600 V,6 500 A or less	N
KS C IEC 60898-1:2018	Wiring appliances	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations-Part 1:Circuit-breakers for a.c. operation	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60947-1:2017	Wiring appliances	Low-voltage switchgear and controlgear-Part 1:General rules [exception] 8.2.3 Enclosures for equipment Annex C.	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 60947-2:2019	Wiring appliances	Low-voltage switchgear and controlgear-Part 2:Circuit-breakers	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 60947-4-1:2021	Wiring appliances	Low-voltage switchgear and controlgear-Part 4 - 1:Contactors and motor-starters-Electromechanical contactors and motor-starters [exception] 8.1.12 Degrees of protection of enclosed equipment	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 61009-1:2017	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)-Part 1:General rules	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 61009-2-1:2019	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's)-Part 2 - 1:Applicability of the general rules to RCBO's functionally independent of line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 61009-2-2:2019	Wiring appliances	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's)-Part 2 - 2:Applicability of the general rules to RCBO's functionally dependent on line voltage	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61643-11:2017	Wiring appliances	Low-voltage surge protective device-Part 11:Surge protective devices connected to low-voltage power systems-Requirements and test methods Ed1.0	(10 / 350) μ s, 100 kA ① (8 / 20) μ s, 200 kA(1.2 / 50) μ s, 20 kV(8 / 20) μ s, 10 kA	N
IEC 61643-21:2020	Wiring appliances	Low-voltage surge protective device-Part 21:Surge protective devices connected to telecommunications and signaling networks-Performance requirements and testing methods Ed1.2	(10 / 350) μ s, 100 kA ②(8 / 20) μ s, 200 kA(1.2 / 50) μ s, 20 kV(8 / 20) μ s, 10 kA	N
IEC 61643-311:2013	Wiring appliances	Components for low-voltage surge protective devices-Part 311:Performance requirements and test circuits for gas discharge tubes (GDT)	(10 / 350) μ s, 100 kA ③(8 / 20) μ s, 200 kA(1.2 / 50) μ s, 20 kV(8 / 20) μ s, 10 kA	N
IEC 61643-321:2001	Wiring appliances	Components for low-voltage surge protective devices-Part321:Specification for avalanche breakdown diode(ABD)Ed1.0	(10 / 350) μ s, 100 kA ④(8 / 20) μ s, 200 kA(1.2 / 50) μ s, 20 kV(8 / 20) μ s, 10 kA	N
IEC 61643-331:2020	Wiring appliances	Components for low-voltage surge protective devices-Part 331:Specification for metal oxide varistors (MOV)Ed1.0	(10 / 350) μ s, 100 kA ⑤(8 / 20) μ s, 200 kA(1.2 / 50) μ s, 20 kV(8 / 20) μ s, 10 kA	N
IEC 61643-341:2020	Wiring appliances	Components for low-voltage surge protective devices-Part 341:Specification for thyristor surge suppressors (TSS) Ed 1.0	(10 / 350) μ s, 100 kA ⑥(8 / 20) μ s, 200 kA(1.2 / 50) μ s, 20 kV(8 / 20) μ s, 10 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61643-11:2017	Wiring appliances	Low-voltage surge protective devices-Part 11:Surge protective devices connected to low-voltage power systems-Requirements and test methods	(10 / 350) μ s, 100 kA ⑦(8 / 20) μ s, 200 kA(1.2 / 50) μ s, 20 kV(8 / 20) μ s, 10 kA	N
IEC 60255-12:1980	Wiring appliances	Electrical relays-Part 12:Directional relays and power relays with two input energizing quantities	3 \emptyset :32A, 80VA6 \emptyset :16A, 40VA4 \emptyset :300V, 75VA	N
IEC 60255-13:1980	Wiring appliances	Electrical relays-Part 13:Biased (percentage) differential relays	3 \emptyset :32A, 80VA6 \emptyset :16A, 40VA4 \emptyset :300V, 75VA	N
IEC 60255-27:2013	Wiring appliances	Measuring relays and protection equipment-Part 27:Product safety requirements [exception] 10.6.2.1, 10.6.2.2, 10.6.2.3, 10.6.2.4, 10.6.2.6 10.6.5.2, 10.6.5.5	1 \emptyset 5kV frequency:5 Hz ~ 1 000 Hz Max:8 G	N
IEC 60255-121:2014	Wiring appliances	Measuring relays and protection equipment-Part 121:Functional requirements for distance protection	3 \emptyset :32A, 80VA 6 \emptyset :16A, 40VA 4 \emptyset :300V, 75VA	N
IEC 60255-127:2010	Wiring appliances	Measuring relays and protection equipment-Part 127:Functional requirements for over / under voltage protection	3 \emptyset :32A, 80VA 6 \emptyset :16A, 40VA 4 \emptyset :300V, 75VA	N
IEC 60255-149:2013	Wiring appliances	Measuring relays and protection equipment-Part 149:Functional requirements for thermal electrical relays	3 \emptyset :32A, 80VA 6 \emptyset :16A, 40VA 4 \emptyset :300V, 75VA	N
IEC 60255-151:2009	Wiring appliances	Measuring relays and protection equipment-Part 151:Functional requirements for over / under current protection	3 \emptyset :32A, 80VA 6 \emptyset :16A, 40VA 4 \emptyset :300V, 75VA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62271-103:202 1	Wiring appliances	High-voltage switchgear and controlgear-Part 103:Switches for rated voltages above 1 kV up to and including 52 kV 7.1 Dielectric test on the main circuit (IEC 62271-1) 7.2 Tests on auxiliary and control circuits (IEC 62271-1) 7.3 Measurement of the resistance of the main circuit(IEC 62271-1) 7.4 Tightness test(IEC 62271-1) 7.5 Design and visual checks(IEC 62271-1) 7.101 Mechanical operating tests	A.C. 400 kV or less	N
IEC 62271-1:2017	Wiring appliances	High-voltage switchgear and controlgear-Part 1:Common specifications 7.1 Dielectric test on the main circuit 7.2 Tests on auxiliary and control circuits 7.3 Measurement of the resistance of the main circuit 7.4 Tightness test 7.5 Design and visual checks	A.C. 400 kV or less	N
IEC 62271-100:202 1	Wiring appliances	High-voltage switchgear and controlgear-Part 100:Alternating current circuit-breakers 7.1 Dielectric test on the main circuit 7.2 Tests on auxiliary and control circuits 7.3 Measurement of the resistance of the main circuit 7.4 Tightness test 7.5 Design and visual checks 7.101 Mechanical operating tests	A.C. 400 kV or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62271-102:201 8	Wiring appliances	High-voltage switchgear and controlgear-Part 102:Alternating current disconnectors and earthing switches 7.1 Dielectric test on the main circuit 7.2 Dielectric tests on auxiliary and control circuits 7.3 Measurement of the resistance of the main circuit 7.4 Tightness test 7.5 Design and visual checks 7.101 Mechanical operating tests	A.C. 400 kV or less	N
IEC 62271-105:202 1	Wiring appliances	High-voltage switchgear and controlgear-Part 105:Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV 7.1 Dielectric test on the main circuit (IEC 62271-1) 7.2 Tests on auxiliary and control circuits (IEC 62271-1) 7.3 Measurement of the resistance of the main circuit(IEC 62271-1) 7.4 Tightness test(IEC 62271-1) 7.5 Design and visual checks(IEC 62271-1) 7.101 Mechanical operating tests	A.C. 400 kV or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62271-106:202 1	Wiring appliances	High-voltage switchgear and controlgear-Part 106:Alternating current contactors, contactor-based controllers and motor-starters 7.1 Dielectric test on the main circuit 7.2 Tests on auxiliary and control circuits 7.3 Measurement of the resistance of the main circuit 7.4 Tightness test 7.5 Design and visual checks 7.101 Operating tests 7.102 Tests dependent on starter type	A.C. 400 kV or less	N
IEC 62271-200:202 1	Wiring appliances	High-voltage switchgear and controlgear-Part 200:AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV 7.1 Dielectric test on the main circuit 7.2 Tests on auxiliary and control circuits 7.3 Measurement of the resistance of the main circuit 7.4 Tightness test 7.5 Design and visual checks 7.101 Partial discharge measurement 7.102 Mechanical operation tests 7.103 Pressure tests of gas - filled compartments 7.104 Tests of auxiliary electrical, pneumatic and hydraulic devices 7.105 Tests after erection on site 7.106 Measurement of fluid conditions after filling on site	A.C. 400 kV or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62271-203:201 1	Wiring appliances	High-voltage switchgear and controlgear-Part 203:Gas-insulated metal-enclosed switchgear for rated voltage above 52 kV 7.1 Dielectric test on the main circuit 7.2 Tests on auxiliary and control circuits 7.3 Measurement of the resistance of the main circuit 7.4 Tightness test 7.5 Design and visual checks 7.101 Pressure tests of enclosures 7.102 Mechanical operation tests 7.103 Tests on auxiliary circuits, equipment and interlocks in the control mechanism 7.104 Pressure test on partition	A.C. 400 kV or less	N
IEC 60076-1:2011	Wiring appliances	Power transformers-Part 1:General 11.2 Measurement of winding resistance 11.3 Measurement of voltage ratio and check of phase displacement 11.4 Measurement of short - circuit impedance and load loss 11.5 Measurement of no-load loss and current 11.7 Tests on on-load tap changers-operation test 11.8 Leak testing with pressure for liquid-immersed transformers (tightness test) 11.12 Check of core and frame insulation for liquid immersed transformers with core or frame insulation 11.1.2.1 e) Dielectric routine tests(IEC 60076-3) i) Check of the ratio and polarity of built-in current transformers	A.C. 400 kV or less 110 V-22 900 V 10 VA-3000kVA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60076-3:2018	Wiring appliances	Power transformers-Part 3:Insulation levels, dielectric tests and external clearances in air 7 Insulation requirements and dielectric test-Basic rules 10 Insulation of auxiliary wiring 11 Separate source AC withstand voltage test 12 Induced AC Voltage tests(ACSD, ACLD) 13 Lighting Impulse(LI) test	A.C 400 kV.D.C 1 200 kV	N
IEC 60076-4:2002	Wiring appliances	Power transformers-Part 4:Guide to the lightning impulse and switching impulse testing - Power transformers and reactors 7 Lighting Impulse tests	D.C. 1200 kV or less	N
IEC 60076-11:2018	Wiring appliances	Power transformers-Part 11:Dry-type transformers 15 Measurement of winding resistance 16 Measurement of voltage ratio and check of phase displacement 18 Measurement of no-load loss and current 19 Separate-source AC withstand voltage test 20 Induced AC Voltage tests 22 Partial discharge measurement	A.C. 400 kV or less 110 V-22 900 V 10 VA-3 000 kVA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60076-1:2020	Wiring appliances	Power transformers-Part 1:General 11.1.2 Routine tests a) Measurement of winding resistance(11.2) b) Measurement of voltage ratio and check of phase displacement(11.3) c) Measurement of short - circuit impedance and load loss(11.4) d) Measurement of no-load loss and current(11.5) e) Dielectric routine tests (KS C IEC 60076-3) f) Tests on on-load tap changers-operation test(11.7)	A.C. 400 kV or less 110 V-22 900 V 10 VA-3 000 kVA	N
KS C IEC 60076-3:2020	Wiring appliances	Power transformers-Part 3:Insulation levels, dielectric tests and external clearances in air 7 Insulation requirements and dielectric test-Basic rules 11 Separate source AC withstand voltage test 12 nduced AC Voltage tests(ACSD, ACLD) 13 Lighting Impulse(LI) test	A.C. 400 kV or less 110 V-22 900 V 10 VA-3 000 kVA D.C. 1 200 kV	N
KS C IEC 60076-4:2018	Wiring appliances	Power transformers-Part 4:Guide to the lightning impulse and switching impulse testing - Power transformers and reactors 7 Lighting Impulse tests	A.C. 1 200 kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60076-11:2020	Wiring appliances	Power transformers-Part 11: Dry-type transformers 15 Measurement of winding resistance 16 Measurement of voltage ratio and check of phase displacement 18 Measurement of no-load loss and current 19 Separate-source AC withstand voltage test 20 Induced AC Voltage tests 21 Partial discharge measurement	A.C. 400 kV or less 110 V-22 900 V 10 VA-3 000 kVA	N
IEC 61869-1:2007	Wiring appliances	Instrument transformers-Part 1: General requirements 7.3.1 Power-frequency voltage withstand tests on primary terminals 7.3.2 Partial discharge measurement 7.3.3 Power-frequency voltage withstand tests between sections 7.3.4 Power-frequency voltage withstand tests on secondary terminals 7.3.5 Test for accuracy 7.3.6 Verification of markings 7.3.7 Tightness test	A.C. 10 000A AC 245kV	N
IEC 61869-2:2012	Wiring appliances	Instrument transformers-Part 1: Current transformers 7.3.1 Power-frequency voltage withstand tests on primary terminals 7.3.5 Tests for accuracy 7.3.201 Determination of the secondary winding resistance (Rct) 7.3.202 Determination of the secondary loop time constant (Ts) 7.3.203 Test for rated knee point e.m.f. (Ek) and exciting current at Ek 7.3.204 Inter-turn overvoltage test	A.C. 10 000A	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61869-3:2011	Wiring appliances	Instrument transformers-Part 3:Additional requirements for inductive voltage transformers 7.3.1 Power-frequency voltage withstand tests on primary terminals 7.3.2 Partial discharge measurements 7.3.5 Test for accuracy	AC 245kV	N
KS C IEC 60044-1:2018	Wiring appliances	Instrument transformers-Part 1:Current transformers 8 Routine tests 8.1 Verification of markings 8.2 Power-frequency voltage withstand tests on primary terminals, Partial discharge measurement 8.3 Power-frequency voltage withstand tests between sections, Power-frequency voltage withstand tests on secondary terminals 8.4 Inter-turn overvoltage test	A.C. 10 000A	N
KS C IEC 60044-2:2018	Wiring appliances	Instrument transformers-Part 2:inductive voltage transformers 9 Routine tests 9.1 Verification of markings 9.2 Power-frequency voltage withstand tests on primary terminals, Partial discharge measurement 9.3 Power-frequency voltage withstand tests between sections, Power-frequency voltage withstand tests on secondary terminals	AC 245kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60099-4:2014	Wiring appliances	Surge arresters-Part 4: Metal-oxide surge arresters without gaps for a.c. systems 9.1 Routine tests a) Measurement of reference voltage(U_{ref}) b) Residual voltage test c) d) Internal partial discharge test g) Measurement of Resistance / Capacitance	(8 / 20) μ s 200 kA(10 / 350) μ s 100 kA	N
IEC 60282-1:2020	Wiring appliances	High-voltage fuses-Part 1: Current-limiting fuses 8 Routine tests-The provision of cool resistance values	(0 ~ 100) Ω	N
IEC 60282-2:2008	Wiring appliances	High-voltage fuses-Part 2: Expulsion fuses 10 Acceptance tests a) Dimensional verification b) Measurement of resistance of fuse-links	(0 ~ 100) Ω	N
KS C IEC 60282-2:2020	Wiring appliances	High-voltage fuses-Part 2: Expulsion fuses 9 Acceptance tests a) Dimensional verification b) Measurement of resistance of fuse-links	(0 ~ 100) Ω	N
KS C IEC 60694:2019	Wiring appliances	High-voltage switchgear and controlgear-Part 1: Common specifications 7.1 Dielectric test on the main circuit 7.2 Tests on auxiliary and control circuits 7.3 Measurement of the resistance of the main circuit 7.4 Tightness test 7.5 Design and visual checks	A.C. 400 kV or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60099-4:2019	Wiring appliances	Surge arresters-Part 4: Metal-oxide surge arresters without gaps for a.c. systems 9.1 Routine tests a) Measurement of reference voltage(U_{ref}) b) Residual voltage test c) Internal partial discharge test	(8 / 20) μ s 200 kA (10 / 350) μ s 100 kA	N
KS C IEC 60947-5-1:201 7	Wiring appliances	Low-voltage switchgear and controlgear-Part 5 - 1: Control circuit devices and switching elements-Electromechanical control circuit devices	AC 600V or less AC 150A or less Short-circuit switching capacity 50 kA or less	N
KC 60947-5-1:201 6	Wiring appliances	Low-voltage switchgear and controlgear-Part 5 - 1: Control circuit devices and switching elements-Electromechanical control circuit devices	AC 600V or less AC 150A or less Short-circuit switching capacity 50 kA or less	N
IEC 60947-5-1:201 6	Wiring appliances	Low-voltage switchgear and controlgear-Part 5 - 1: Control circuit devices and switching elements-Electromechanical control circuit devices	AC 600V or less AC 150A or less Short-circuit switching capacity 50 kA or less	N
IEC 62368-1:2018	Wiring appliances	Audio/video, information and communication technology equipment - Part 1: Safety requirements Annex R Limited short-circuit test	600 V, 1 500 A or Less	N
KS C IEC 62109-2:2013	Wiring appliances	Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters 4.8 Additional tests for grid-interactive inverters	1 500 V or Less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Wiring appliances

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62109-2:2011	Wiring appliances	Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters 4.8 Additional tests for grid-interactive inverters	1 500 V or Less	N
KS C IEC 61557-8:2014	Wiring appliances	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems AnnexC(normative) Insulation monitoring devices for photovoltaic systems(PV-IMD) Table C.1 Type tests and Routine tests	1 500 V or Less	N
IEC 61557-8:2014	Wiring appliances	Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. – Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems AnnexC(normative) Insulation monitoring devices for photo voltaic systems(PV-IMD) Table C.1 Type tests and Routine tests	1 500 V or Less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60127-1:2015	Electrical materials and components	Miniature fuses-Part 1:Definitions for miniature fuses and general requirements for miniature fuse-links	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
IEC 60127-2:2014	Electrical materials and components	Miniature fuses-Part 2:Cartridge fuse-links [exception] A3.3 Solderability of terminations A3.4 Resistance to soldering heat	(a.c / dc) 500 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
IEC 60127-3:2015	Electrical materials and components	Miniature fuses-Part 3:Sub - miniature fuse-links	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
IEC 60127-4:2012	Electrical materials and components	Miniature fuses-Part 4:Universal modular fuse-links (UMF)-Through-hole and surfacemount types [exception] 8.6 Solderability of terminations 8.7 Resistance to soldering heat	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
IEC 60127-6:2014	Electrical materials and components	Miniature fuses-Part 6:Fuse-holders for miniature cartridge fuse - links [exception] 12.6.2 Terminals for soldering	(a.c. / d.c.) 250 V, 10 A or less	N
IEC 60269-1:2014	Electrical materials and components	Low-voltage fuses-Part 1:General requirements [exception] Table 22, Table E.1, Table E.2, Table E.3	a.c. 600 V, 400 A or less,rupturing capacity:50 000 A or less	N
IEC 60269-2:2016	Electrical materials and components	Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60269-3:2019	Electrical materials and components	Low-voltage fuses-Part 3:Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)-Examples of standardized systems of fuses A to F	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N
IEC 60691:2019	Electrical materials and components	Thermal-links-Requirements and application guide	a.c. 250 V, 15 A or less, operated temperature:300 °C or less	N
IEC 60934:2019	Electrical materials and components	Circuit-breakers for equipment (CBE)	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N
IEC 61095:2009	Electrical materials and components	Electromechanical contactors for household and similar purposes	a.c. 440 V, 63 A or less, rupturing capacity:50 000 A or less	N
K 60127-1:2011	Electrical materials and components	Miniature fuses-Part 1:Definitions for miniature fuses and general requirements for miniature fuse-links	a.c. 600 V, 600 A or less, rupturing capacity:50 000 A or less	N
KC 60127-2:2015	Electrical materials and components	Miniature fuses-Part 2:Cartridge fuse-links [exception] A3.3 Solderability of terminations 3.4 Resistance to soldering heat	(a.c / dc) 500 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
KC 60127-3:2015	Electrical materials and components	Miniature fuses-Part 3:Sub-miniature fuse-links	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60127-4:2016	Electrical materials and components	Miniature fuses-Part 4:Universal modular fuse-links (UMF)-Through-hole and surfacemount types [exception] 8.6 Solderability of terminations 8.7 Resistance to soldering heat	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
KC 60127-6:2015	Electrical materials and components	Miniature fuses-Part 6:Fuse-holders for miniature cartridge fuse - links [exception] 12.6.2 Terminals for soldering	(a.c. / d.c.) 250 V, 10 A or less	N
KC 60269-1:2015	Electrical materials and components	Low-voltage fuses-Part 1:General requirements	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N
KC 60269-2:2015	Electrical materials and components	Low-voltage fuses-Part 2:Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)-Examples of standardized systems of fuses A to I	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N
K 60269-3:2008	Electrical materials and components	Low-voltage fuses-Part 3:Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications)-Examples of standardized systems of fuses A to F	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N
KC 60691:2016	Electrical materials and components	Thermal-links-Requirements and application guide	a.c. 250 V, 15 A or less, operated temperature:300 °C or less	N
KC 60934:2015	Electrical materials and components	Circuit-breakers for equipment (CBE)	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
K 61095:2002	Electrical materials and components	Electromechanical contactors for household and similar purposes	a.c. 440 V, 63 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 60127-1:2019	Electrical materials and components	Miniature fuses-Part 1:Definitions for miniature fuses and general requirements for miniature fuse-links	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
KS C IEC 60127-2:2020	Electrical materials and components	Miniature fuses-Part 2:Cartridge fuse - links [exception] 8.6 Solderability of terminationsA 3.4 Resistance to soldering heat	(a.c / dc) 500 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
KS C IEC 60127-3:2020	Electrical materials and components	Miniature fuses-Part 3:Sub - miniature fuse-links	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
KS C IEC 60127-4:2020	Electrical materials and components	Miniature fuses-Part 4:Universal modular fuse-links (UMF)-Through-hole and surfacemount types [exception] 8.6 Solderability of terminations 8.7 Resistance to soldering heat	(a.c / dc) 250 V, 10 A or less, rupturing capacity:50 000 A or less(ac)	N
KS C IEC 60127-6:2021	Electrical materials and components	Miniature fuses-Part 6:Fuse-holders for miniature cartridge fuse - links [exception] 12.6.2 Terminals for soldering	(a.c. / d.c.) 250 V, 10 A or less	N
KS C IEC 60269-1:2019	Electrical materials and components	Low-voltage fuses-Part 1:General requirements	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N

Korea Laboratory Accreditation Scheme

No. KT005

03.004 Electrical materials and components

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60269-2:2021	Electrical materials and components	Low-voltage fuses-Part 2:Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application)-Examples of standardized systems of fuses A to I	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 60269-3:2021	Electrical materials and components	Fixed capacitors for use in electronicquipment-Part 3:Sectional specification:Surface mount fixed tantalum electrolyticcapacitors with manganese dioxide solid electrolyte	a.c. 600 V, 400 A or less, rupturing capacity:50 000 A or less	N
KS C IEC 60691:2021	Electrical materials and components	Thermal-links-Requirements and application guide	a.c. 250 V, 15 A or less, operated temperature:300 °C or less	N
KS C IEC 60934:2017	Electrical materials and components	Circuit-breakers for equipment (CBE)	a.c. 440 V, 125 A or less, rupturing capacity:50 000 A or less	N

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No.2021-69 (04.20.2021.)	Electrical machinery for industries	The provisions for Certification of efficiency energy-using appliances Program 24. Transformer	110 V ~ 22 900 V 10 VA ~ 3 000 kVA 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

Branch Site-3. 940, Osan-ro, Osan-myeon, Gokseong-gun, Jeollanam-do, Republic of Korea

03 Electric Test

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60228:2004	Electric cords, cables and circuits	Conductors of insulated cables	0.007 2 mΩ/m	N
IEC 60332-1-2:2015	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame	1 kW	N
IEC 60332-1-3:2015	Electric cords, cables and circuits	Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles	1 kW	N
IEC 60502-1:2021	Electric cords, cables and circuits	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV) (Exception) 18.15.2 Flame spread test on bunched cables 18.15.3 Smoke emission test	(1 ~ 3) kV	N
IEC 60754-1:2019	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	950 °C resolution 0.1 mg	N
IEC 60754-2:2019	Electric cords, cables and circuits	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	950 °C resolution 0.1 mg, pH: ± 0.02, conductivity: 10-2 μS/mm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-201:201 7	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 201: General tests – Measurement of insulation thickness	at least 10 x magnification, Reading 0.01 mm	N
IEC 60811-202:201 7	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 202: General tests – Measurement of thickness of non-metallic sheath	at least 10 x magnification, Reading 0.01 mm	N
IEC 60811-203:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 203: General tests – Measurement of overall dimensions	0.1 mm	N
IEC 60811-401:201 7	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 401: Miscellaneous tests – Thermal ageing methods – Ageing in an air oven	Air change 8-20 per hour	N
IEC 60811-402:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 402: Miscellaneous tests – Water absorption tests	DC 2 500 V, 0.1 mg, (70 ± 2) °C	N
IEC 60811-403:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 403: Miscellaneous tests – Ozone resistance test on cross-linked compounds	(25 ± 2) °C, Elongation (33 ± 2) %, 250 ppm, 0.1 mg	N
IEC 60811-412:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 412: Miscellaneous tests – Thermal ageing methods – Ageing in an air bomb	pressure (0.55 ± 0.02) MPa.	N
IEC 60811-501:201 8	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 501: Mechanical tests – Tests for determining the mechanical properties of insulating and sheathing compounds	Reading 0.01 mm, (250 ± 50) mm/min	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-502:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 502: Mechanical tests – Shrinkage test for insulations	resolution 0.5 mm	N
IEC 60811-503:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 503: Mechanical tests – Shrinkage test for sheaths	resolution 0.5 mm	N
IEC 60811-504:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 504: Mechanical tests – Bending tests at low temperature for insulation and sheaths	12 min-1	N
IEC 60811-505:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 505: Mechanical tests – Elongation at low temperature for insulations and sheaths	(25 ± 5) mm/min.	N
IEC 60811-506:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 506: Mechanical tests – Impact test at low temperature for insulations and sheaths	1 500 g	N
IEC 60811-507:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 507: Mechanical tests – Hot set test for cross-linked materials	(200 ± 3) ° C, (20 ± 0.5) N/cm ²	N
IEC 60811-508:201 7	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 508: Mechanical tests – Pressure test at high temperature for insulation and sheaths	at least 10 x magnification, Reading 0.01 mm	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60811-509:201 7	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 509: Mechanical tests – Test for resistance of insulations and sheaths to cracking (heat shock test)	(150 ± 3) °C	N
IEC 60811-605:201 2	Electric cords, cables and circuits	Electric and optical fibre cables – Test methods for non-metallic materials – Part 605: Physical tests – Measurement of carbon black and/or mineral filler in polyethylene compounds	950 °C	N
UL 1581:2001	Electric cords, cables and circuits	Reference Standard for Electrical Wires, Cables, and Flexible Cords (Exception) 490 Infrared Spectroscopy 491 Determination of the Ash Content 492 Elemental Analysis 493 Gel Permeation Chromatography 494 Infrared Spectroscopy 495 Pyrolytic Gas Chromatography 497 Differential Scanning Calorimetry 900 Sparktest 910 Spark Tests for Power-Limited Circuit Cable and for Cable for Power-Limited Fire-Alarm Circuits	56AWG ~ 2 000 kcmil	N
UL 2556:2021	Electric cords, cables and circuits	Wire and Cable Test Methods (Exception) 6.7 Spark 9.8 Fire propagation / RPI 9.12 FT5 (United States and Canada only)	(25 ± 10) °C	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
UL 758:2014	Electric cords, cables and circuits	Appliance Wiring Material (Exception) 46 IEC 60332-2 Flame Test 47, 48, 48A, 49 MANUFACTURING AND PRODUCTION TESTS	Min. 30 V	N
UL 62:2018	Electric cords, cables and circuits	Flexible Cords and Cables (Exception) 5.2.1 Spark test	Max. 600 V	N
UL 44:2018	Electric cords, cables and circuits	Thermoset-Insulated Wires and Cables (Exception) 5.14.8.3 Fire propagation / RPI 5.23 AC spark test 5.26 Electrical continuity	(600 ~ 5 000) V	N
UL 83:2017	Electric cords, cables and circuits	Thermoplastic-Insulated Wires and Cables (Exception) 5.12.7.3 Fire propagation 5.22 A-C spark test	600 V	N
UL 1063:2017	Electric cords, cables and circuits	Machine-Tool Wires and Cables (Exception) 19 Spark Testing of Finished Single Conductors and of Individual Conductors Before Assembly	600 V	N
UL 1277:2018	Electric cords, cables and circuits	Electrical Power and Control Tray Cables with Optional Optical-Fiber Members (Exception) 13 Continuity Test of Conductors	18 AWG ~ 1 000 kcmil	N
UL 4703:2014	Electric cords, cables and circuits	Photovoltaic Wire	(600~2 000) V	N
UL 1309:2017	Electric cords, cables and circuits	Marine Shipboard Cable (Exception) 37, 38, 39 MANUFACTURING AND PRODUCTION LINE TESTS	300 V ~ 35 kV	N

Korea Laboratory Accreditation Scheme

No. KT005

03.001 Electric cords, cables and circuits

Test method	Products and materials	Standard designation	Test range	Field testing
UL 1072:2006	Electric cords, cables and circuits	Medium-Voltage Power Cables (Exception) 30 Test or Examination for integrity and Continuity of Non-conductive Jacket Over Insulation Shielding or Over a Metal Sheath or Armor 48 Alternative Tests for Resistance to Tracking of Nonshielded Dry-Locations 2 400 V Single-Conductor Cable Insulated with EPCV or XLPE	(2.4 ~ 35) kV	N
UL 444:2017	Electric cords, cables and circuits	Communication Cables (Exception) 6.1 Spark test after insulating 7.23 Circuit integrity test for cable marked "-CI"	(60 ~ 250) °C	N
UL 13:2015	Electric cords, cables and circuits	Power-Limited Circuit Cables (Exception) 16, 17, 18, 19 MANUFACTURING AND PRODUCTION TESTS 41 Circuit Integrity 43 Limited Combustible	(60 ~ 250) °C	N
UL 1651:2015	Electric cords, cables and circuits	Optical Fiber Cable	720 h	N
UL 1666:2007	Electric cords, cables and circuits	Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts	(23 ± 3) °C	N
UL 1685:2015	Electric cords, cables and circuits	Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables	Less than 244 cm	N
IEEE 1202:2006	Electric cords, cables and circuits	IEEE Standard for Flame-Propagation Testing of Wire and Cable	20 kW (70 000 Btu/h)	N
NFPA 262:2019	Electric cords, cables and circuits	Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces	86 kW	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60947-1:2020	Wiring appliances	Low-voltage switchgear and controlgear-Part1:General rules 9.3.3.3 Temperature-rise 9.3.3.7 Durability 9.3.4 Performance under short-circuit conditions	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60947-2:2019	Wiring appliances	<p>Low-voltage switchgear and controlgear - Part 2: Circuit-breakers</p> <p>8.3.3 Test sequence I: General performance characteristics</p> <p>8.3.4 Test sequence II: Rated service short-circuit breaking capacity</p> <p>8.3.5 Test sequence III: Rated ultimate short-circuit breaking capacity</p> <p>8.3.6 Test sequence IV: Rated short-time withstand current</p> <p>8.3.7 Test sequence V: Performance of integrally fused circuit-breakers</p> <p>8.3.8 Test sequence VI: Combined test sequence</p> <p>8.3.9 Critical d.c. load current test Annex C: Individual pole short-circuit test sequence Annex H: Test sequence for circuit-breakers for IT systems [exception]</p> <p>8.3.3.2 Test of tripping limits and characteristics</p> <p>8.3.3.3 Test of dielectric properties</p> <p>8.3.3.9 Verification of undervoltage and shunt releases</p> <p>8.3.3.10 Verification of the main contact position</p> <p>8.3.3.8, 8.3.4.6, 8.3.5.2, 8.3.5.5, 8.3.6.2, 8.3.6.7, 8.3.7.5, 8.3.7.9, 8.3.8.2, 8.3.8.8, Annex C.4, Annex H.4 Verification of overload releases</p>	<p>Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A ,</p> <p>Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A,</p> <p>Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA</p>	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60947-3:2020	Wiring appliances	<p>Low-voltage switchgear and controlgear-Part 3:Switches, disconnectors, switch - disconnectors and fuse combination units</p> <p>9.3.4 Tests equence I: general performance characteristics,</p> <p>9.3.5 Tests equence II: operational performance capability,</p> <p>9.3.6 Tests equence III:short-circuit performance capability,</p> <p>9.3.7 Tests equence IV: conditional short-circuit current,</p> <p>9.3.8 Tests equence V: over load performance capability,</p> <p>9.3.9 Tests equence VI: critical load current performance of equipment with a DCrating [exception]</p> <p>9.3.4.3 Test of dielectric properties</p> <p>9.3.4.5, 9.3.5.3, 9.3.6.4, 9.3.7.4,</p> <p>9.3.8.3 Dielectricverification</p> <p>9.3.4.8 Strength of actuat or mechanism</p> <p>9.3.4.6, 9.3.5.4, 9.3.6.5, 9.3.7.5,</p> <p>9.3.8.4 Leak agecurrent</p>	<p>Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A ,</p> <p>Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A,</p> <p>Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA</p>	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60947-4-1:2018	Wiring appliances	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters-Electromechanical contactors and motor-starters 9.3.3.3 Temperature-rise 9.3.3.5 Making and breaking capacities 9.3.4 Performance under short-circuit conditions	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A, Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA, DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
IEC 60947-5-1:2016	Wiring appliances	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements-Electromechanical control circuit devices 8.3.3.3 Temperature rise 8.3.3.5 Making and breaking capacities 8.3.4 Performance under conditional short-circuit current	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 600 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA, DC 100 V ~ 600 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61439-1:2020	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 1:General rules 10.5.3 Short-circuit with stand strength of the protective circuit, 10.10 Temperature-rise, 10.11 Short-circuit with stand strength	Temperature-rise test: AC 50 A ~ 8 000 A,DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kADC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
IEC 61439-2:2020	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 2:Power switchgear and controlgear assemblies 10.5.3 Short-circuit with stand strength of the protective circuit, 10.10 Temperature-rise, 10.11 Short-circuit with stand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kADC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
IEC 61439-3:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies - Part 3:Distribution boards intended to be operated by ordinary persons (DBO) 10.5.3 Short-circuit withstand strength of the protective circuit 10.10 Verification of temperature rise 10.11 Short-circuit withstand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61439-4:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies - Part 4:Particular requirements for assemblies for construction sites (ACS) 10.5.3 Short-circuit withstand strength of the protective circuit 10.10 Verification of temperature rise 10.11 Short-circuit withstand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kADC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
IEC 61439-5:2014	Wiring appliances	Low-voltage switchgear and controlgear assemblies - Part 5:Assemblies for power distribution in public networks 10.5.3 Short-circuit withstand strength of the protective circuit 10.10 Verification of temperature rise 10.11 Short-circuit withstand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
IEC 61439-6:2012	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 6:Busbar trunking systems (busways) 10.5.3 Short-circuit withstand strength of the protective circuit 10.10 Verification of temperature rise 10.11 Short-circuit withstand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kADC 100 V ~ 1 500 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 61992-1:2014	Wiring appliances	Railway applications – Fixed installations – DC switchgear – Part 1:General 7.3.2 Electrical endurance test 7.4 Temperature-rise test 7.6 Short-circuit and load-switching conditions 7.7 Verification of the behaviour during short-time withstand current test	Temperature-rise test: DC 50 A ~ 6 500 A , Load, switching test: DC 100 V ~ 2 000 V, 1 A ~ 4 000 A, Short, circuit test: DC 100 V ~ 3 000 V, 500 A ~ 100 kA	N
IEC 61992-2:2014	Wiring appliances	Railway applications – Fixed installations – DC switchgear – Part 2: DC circuit-breakers 8.3.4 Temperature-rise tests 8.3.6 Electrical endurance test 8.3.8 Verification of the making and breaking capacity in short-circuit conditions 8.3.9 Verification of behaviour under short-time withstand current for test duty s 8.3.10 Searching for critical currents and performing test duty l) and lr)	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 500 A Load, switching test: DC 100 V ~ 2 000 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 2 600 V, 500 A ~ 100 kADC 100 V ~ 3 000 V, 500 A ~ 100 kA	N
K 60439-1:2002	Wiring appliances	Low-voltage switchgear and controlgear assemblies Part 1:Type-tested and partially type-tested assemblies 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60439-2:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies Part 2: Particular requirements for busbar trunking systems (busways) 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
KC 60439-3:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use-Distribution boards 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
KC 60439-4:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies Part 4: Particular requirements for assemblies for construction sites (ACS) 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60439-5:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies Part 5:Particular requirements for assemblies for power distribution in public networks 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
K 60947-1:2011	Wiring appliances	Low-voltage switchgear and controlgear Part1:General rules 8.3.3.3 Temperature-rise 8.3.3.7 Durability 8.3.4 Performance under short-circuit conditions	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60947-2:2015	Wiring appliances	<p>Low-voltage switchgear and controlgear Part 2: Circuit-breakers</p> <p>8.3.3 Test sequence I: General performance characteristics</p> <p>8.3.4 Test sequence II: Rated service short-circuit breaking capacity</p> <p>8.3.5 Test sequence III: Rated ultimate short-circuit breaking capacity</p> <p>8.3.6 Test sequence IV: Rated short-time withstand current</p> <p>8.3.7 Test sequence V: Performance of integrally fused circuit-breakers</p> <p>8.3.8 Test sequence VI: combined test sequence Annex C: Individual pole short-circuit test sequence Annex H: Test sequence for circuit-breakers for IT systems [exception]</p> <p>8.3.3.1 Test of tripping limits and characteristics</p> <p>8.3.3.2 Test of dielectric properties</p> <p>8.3.3.8 Verification of undervoltage and shunt releases</p> <p>8.3.3.9 Verification of the main contact position 8.3.3.7, 8.3.4.5, 8.3.5.1, 8.3.5.4, 8.3.6.1, .8.3.6.6, 8.3.7.4, 8.3.7.8, 8.3.8.1, 8.3.8.7, Annex C.4, Annex H.4</p> <p>Verification of overload releases</p>	<p>Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A ,</p> <p>Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A,</p> <p>Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA</p>	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60947-4-1:201 5	Wiring appliances	Low-voltage switchgear and controlgear Part 4-1:Contactors and motor-starters-Electromechanical contactors and motor-starters 9.3.3.3 Temperature-rise 9.3.3.5 Making and breaking capacities 9.3.4 Performance under short-circuit conditions	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA, DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 4613:2019	Wiring appliances	<p>Circuit-breaker incorporating residual current protection for industrial uses(CBR)</p> <p>9. Test:The following items of KS C IEC 60947-2</p> <p>8.3.3 Test sequence I:General performance characteristics</p> <p>8.3.4 Test sequence II:Rated service short-circuit breaking capacity</p> <p>8.3.5 Test sequence III:Rated ultimate short-circuit breaking capacity</p> <p>8.3.6 Test sequence IV:Rated short-time withstand current</p> <p>8.3.7 Test sequence V:Performance of integrally fused circuit-breakers</p> <p>8.3.8 Test sequence VI:combined test sequence Annex C:Individual pole short-circuit test sequence Annex H:Test sequence for circuit-breakers for IT systems [exception]</p> <p>8.3.3.2 Test of tripping limits and characteristics</p> <p>8.3.3.3 Test of dielectric properties</p> <p>8.3.3.9 Verification of undervoltage and shunt releases</p> <p>8.3.3.10 Verification of the main contact position</p> <p>8.3.3.8, 8.3.4.6, 8.3.5.2, 8.3.5.5, 8.3.6.2, 8.3.6.7, 8.3.7.5, 8.3.7.9, 8.3.8.2, 8.3.8.8, Annex C.4, Annex H.4 Verification of overload releases</p>	<p>Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A ,</p> <p>Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A,</p> <p>Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA</p>	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 4620:2019	Wiring appliances	<p>Low-voltage Air Circuit-Breaker(ACB) 9. Test:The following items of KS C IEC 60947-2</p> <p>8.3.3 Test sequence I:General performance characteristics</p> <p>8.3.4 Test sequence II:Rated service short-circuit breaking capacity</p> <p>8.3.5 Test sequence III:Rated ultimate short-circuit breaking capacity</p> <p>8.3.6 Test sequence IV:Rated short-time withstand current</p> <p>8.3.7 Test sequence V:Performance of integrally fused circuit-breakers</p> <p>8.3.8 Test sequence VI:combined test sequence</p> <p>8.3.9 Critical d.c. load current test Annex C:Individual pole short-circuit test sequence Annex H:Test sequence for circuit-breakers for IT systems [exception]</p> <p>8.3.3.2 Test of tripping limits and characteristics</p> <p>8.3.3.3 Test of dielectric properties</p> <p>8.3.3.9 Verification of undervoltage and shunt releases</p> <p>8.3.3.10 Verification of the main contact position</p> <p>8.3.3.8, 8.3.4.6, 8.3.5.2, 8.3.5.5, 8.3.6.2, 8.3.6.7, 8.3.7.5, 8.3.7.9, 8.3.8.2, 8.3.8.8, Annex C.4, Annex H.4 Verification of overload releases</p>	<p>Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A ,</p> <p>Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA</p>	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 8321:2019	Wiring appliances	Molded-Case Circuit-Breaker for Industrial Uses(MCCB) 8. Test:The following items of KS C IEC 60947-2 8.3.3 Test sequence I:General performance characteristics 8.3.4 Test sequence II:Rated service short-circuit breaking capacity 8.3.5 Test sequence III:Rated ultimate short-circuit breaking capacity 8.3.6 Test sequence IV:Rated short-time withstand current [exception] 8.3.3.2 Test of tripping limits and characteristics 8.3.3.3 Test of dielectric properties 8.3.3.9 Verification of undervoltage and shunt releases 8.3.3.10 Verification of the main contact position 8.3.3.8, 8.3.4.6, 8.3.5.2, 8.3.5.5, 8.3.6.2, 8.3.6.7, 8.3.7.5, 8.3.7.9, 8.3.8.2, 8.3.8.8, Verification of overload releases	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA	N
KS C IEC 60439-1:2003	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 1:Type-tested and partially type-tested assemblies 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kADC 100 V ~ 1 500 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60439-2:2008	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 2:Particular requirements for busbar trunking systems(busways) 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
KS C IEC 60439-4:2016	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 4:Particular requirements for assemblies for construction sites(ACS) 8.2.1 Verification of temperature-rise limits 8.2.3 Verification of short-circuit withstand strength 8.2.4 Verification of the effectiveness of the protective circuit	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
KS C IEC 60947-1:2017	Wiring appliances	Low-voltage switchgear and controlgear-Part 1:General rules 8.3.3.3 Temperature-rise 8.3.3.7 Durability 8.3.4 Performance under short-circuit conditions	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 A ~ 1 500 V, 100 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60947-2:2019	Wiring appliances	<p>Low-voltage switchgear and controlgear - Part 2: Circuit-breakers</p> <p>8.3.3 Test sequence I: General performance characteristics</p> <p>8.3.4 Test sequence II: Rated service short-circuit breaking capacity</p> <p>8.3.5 Test sequence III: Rated ultimate short-circuit breaking capacity</p> <p>8.3.6 Test sequence IV: Rated short-time withstand current</p> <p>8.3.7 Test sequence V: Performance of integrally fused circuit-breakers</p> <p>8.3.8 Test sequence VI: combined test sequence</p> <p>8.3.9 Critical d.c. load current test Annex C: Individual pole short-circuit test sequence Annex H: Test sequence for circuit-breakers for IT systems [exception]</p> <p>8.3.3.2 Test of tripping limits and characteristics</p> <p>8.3.3.3 (iii)(iv)(vi) Test of dielectric properties</p> <p>8.3.3.9 Verification of undervoltage and shunt releases</p> <p>8.3.3.10 Verification of the main contact position</p> <p>8.3.3.8, 8.3.4.6, 8.3.5.2, 8.3.5.5, 8.3.6.2, 8.3.6.7, 8.3.7.5, 8.3.7.9, 8.3.8.2, 8.3.8.8, Annex C.4, Annex H.4 Verification of overload releases</p>	<p>Temperature-rise test:</p> <p>AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A, Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A,</p> <p>Short, circuit test: AC 100 V ~ 1 000 V, 100 A ~ 100 kA DC 100 V ~ 1 500 V, 100 A ~ 100 kA</p>	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60947-4-1:201 6	Wiring appliances	Low-voltage switchgear and controlgear – Part 4-1:Contactors and motor-starters-Electromechanical contactors and motor-starters 9.3.3.3 Temperature-rise 9.3.3.5 Making and breaking capacities 9.3.4 Performance under short-circuit conditions	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 1 500 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA, DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
KS C IEC 60947-5-1:201 2	Wiring appliances	Low-voltage switchgear and controlgear – Part 5-1:Control circuit devices and switching elements-Electromechanical control circuit devices 8.3.3.3 Temperature rise 8.3.3.5 Making and breaking capacities 8.3.4 Performance under conditional short-circuit current	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Load, switching test: AC 100 V ~ 1 000 V, 1 A ~ 4 000 A, DC 100 V ~ 600 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA, DC 100 V ~ 600 V, 500 A ~ 100 kA	N
KS C IEC 61439-1:2014	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 1:General rules 10.5.3 Short-circuit withstand strength of the protective circuit 10.10 Verification of temperature rise 10.11 Short-circuit withstand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61439-2:2014	Wiring appliances	Low-voltage switchgear and controlgear assemblies-Part 2:Power switchgear and controlgear assemblies 10.5.3 Short-circuit withstand strength of the protective circuit 10.10 Verification of temperature rise 10.11 Short-circuit withstand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
KS C IEC 61439-5:2015	Wiring appliances	Low-voltage switchgear and controlgear assemblies - Part 5:Assemblies for power distribution in public networks 10.5.3 Short-circuit withstand strength of the protective circuit 10.10 Verification of temperature rise 10.11 Short-circuit withstand strength	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 6 500 A , Short, circuit test: AC 100 V ~ 1 000 V, 500 A ~ 100 kA DC 100 V ~ 1 500 V, 500 A ~ 100 kA	N
KS C IEC 61992-1:2019	Wiring appliances	Railway applications - Fixed installations - DC switchgear - Part 1:General 7.3.2 Electrical endurance test 7.4 Temperature-rise test 7.6 Short-circuit and load-switching conditions 7.7 Verification of the behaviour during short-time withstand current test	Temperature-rise test: DC 50 A ~ 6 500 A , Load, switching test: DC 100 V ~ 2 000 V, 1 A ~ 4 000 A, Short, circuit test: DC 100 V ~ 3 000 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

03.002 Electrical appliances for wiring

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 61992-2:2019	Wiring appliances	Railway applications - Fixed installations - DC switchgear - Part 2:DC circuit-breakers 8.3.4 Temperature-rise test 8.3.6 Electrical endurance test 8.3.8 Verification of the making and breaking capacity in short-circuit conditions 8.3.9 Verification of behaviour under short-time withstand current for test duty s 8.3.10 Searching for critical currents and performing test duty l) and lr)	Temperature-rise test: AC 50 A ~ 8 000 A, DC 50 A ~ 500 A Load, switching test: DC 100 V ~ 2 000 V, 1 A ~ 4 000 A, Short, circuit test: AC 100 V ~ 2 600 V, 500 A ~ 100 kA DC 100 V ~ 3 000 V, 500 A ~ 100 kA	N

Korea Laboratory Accreditation Scheme

No. KT005

Branch Site-4. 35, Heungan-daero, Gunpo-si, Gyeonggi-do, Republic of Korea

03 Electric Test

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-1:2020	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements <Exception> 15 Moisture resistance	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements <Exception> 15 Moisture resistance	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-1:2013	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements <Exception> 15 Moisture resistance	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-2-10:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 10:Particular requirements for floor treatment machines and wet scrubbing machines	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-2-11:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 11:Particular requirements for tumble dryers	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-2-12:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 12: Particular requirements for warming plates and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-13:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 13:Particular requirements for deep fat fryers, frying pans and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-14:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 14:Particular requirements for kitchen machines	a.c. 250 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-15:2018	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 15:Particular requirements for appliances for heating liquids	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-16:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 16:Particular requirements for food waste disposers	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-17:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 17:Particular requirements for blankets, pads and similar flexible heating appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-2:2019	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 2:Particular requirements for vacuum cleaners and water-suction cleaning appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-21:2018	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 21:Particular requirements for storage water heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-23:2019	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 23:Particular requirements for appliances for skin or hair care	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-24:2020	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-24:Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	d.c. 24 V or less, a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-24:2012	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-24:Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	d.c. 24 V or less, a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-25:20 20	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-25:Particular requirements for microwave ovens, including combination microwave ovens	a.c. 250 V or less,50 Hz / 60 Hz	N
IEC 60335-2-26:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-26:Particular requirements for clocks	a.c. 250 V or less,50 Hz / 60 Hz	N
IEC 60335-2-27:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-27:Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-2-28:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-28:Particular requirements for sewing machines	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-2-29:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-29:Particular requirements for battery chargers	a.c. 250 V or less,50 Hz / 60 Hz	N
IEC 60335-2-3:201 5	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-3:Particular requirements for electric irons	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-30:20 16	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-30:Particular requirements for room heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-31:20 18	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-31:Particular requirements for range hoods	a.c. 250 V or less,50 Hz / 60 Hz	N
IEC 60335-2-32:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-32:Particular requirements for massage appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-34:20 21	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-34:Particular requirements for motor-compressors	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-35:20 20	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 35:Particular requirements for instantaneous water heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-36:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 36:Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-37:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 37:Particular requirements for commercial electric deep fat fryers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-38:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 38:Particular requirements for commercial electric griddles and griddle grills	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-39:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 39:Particular requirements for commercial electric multi-purpose cooking pans	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-4:202 1	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 4:Particular requirements for spin extractors	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-40:20 18	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 40:Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-41:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 41: Particular requirements for pumps	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-42:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 42:Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-43:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-43:Particular requirements for clothes dryers and towel rails	a.c. 250 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-44:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-44:Particular requirements for ironers	a.c. 250 V or less,50 Hz / 60 Hz	N
IEC 60335-2-45:2012	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-45:Particular requirements for portable heating tools and similar appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-47:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-47:Particular requirements for commercial electric boiling pans	a.c. 250 V or less,50 Hz / 60 Hz	N
IEC 60335-2-48:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-48: Particular requirements for commercial electric grillers and toasters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-49:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-49:Particular requirements for commercial electric appliances for keeping food and crockery warm	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-5:2018	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-5: Particular requirements for dishwashers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-50:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-50:Particular requirements for commercial electric bains-marie	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-51:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-51:Particular requirements for stationary circulation pumps for heating and service water installations	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-52:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-52:Particular requirements for oral hygiene appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-53:20 21	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2-53:Particular requirements for sauna heating appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-54:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 54:Particular requirements for surface-cleaning appliances for household use employing liquids or steam	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-55:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 55:Particular requirements for electrical appliances for use with aquariums and garden ponds	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-56:20 14	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 56:Particular requirements for projectors and similar appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-58:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 58:Particular requirements for commercial electric dishwashing machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-59:2009	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 59:Particular requirements for insect killers	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-6:2018	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 6:Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	a.c. 250 V or less three phases 480 V or less 50 Hz / 60 Hz	N
IEC 60335-2-60:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 60:Particular requirements for whirlpool baths and whirlpool spas	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-61:2009	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 61:Particular requirements for thermal storage room heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-62:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 62:Particular requirements for commercial electric rinsing sinks	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-64:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 64:Particular requirements for commercial electric kitchen machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-65:2015	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 65:Particular requirements for air-cleaning appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-66:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 66:Particular requirements for water-bed heaters	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-67:2021	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 67:Particular requirements for floor treatment and floor cleaning machines, for industrial and commercial use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-68:20 21	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 68:Particular requirements for spray extraction appliances, for industrial and commercial use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-69:20 21	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 69:Particular requirements for wet and dry vacuum cleaners, including power brush, for industrial and commercial use	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-2-7:201 9	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 7:Particular requirements for washing machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-70:20 13	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 70:Particular requirements for milking machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-71:20 18	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 71:Particular requirements for electrical heating appliances for breeding and rearing animals	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-72:20 21	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 72:Particular requirements for automatic machines for floor treatment for commercial and industrial use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-73:20 09	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 73:Particular requirements for fixed immersion heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-74:20 21	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 74:Particular requirements for portable immersion heaters	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-75:20 18	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 75:Particular requirements for commercial dispensing appliances and vending machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-76:20 18	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 76:Particular requirements for electric fence energizers	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-77:20 02	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 77:Particular requirements for pedestrian controlled mains-operated lawnmowers	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-78:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 78:Particular requirements for outdoor barbecues	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-79:20 21	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 79:Particular requirements for high pressure cleaners and steam cleaners	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-8:201 8	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 8:Particular requirements for shavers, hair clippers and similar appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-80:20 15	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 80:Particular requirements for fans	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-81:20 20	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 81:Particular requirements for foot warmers and heating mats	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-82:20 20	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 82:Particular requirements for amusement machines and personal service machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-84:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 84:Particular requirements for toilets	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-85:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 85:Particular requirements for fabric steamers	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-88:2002	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 88:Particular requirements for humidifiers intended for use with heating, ventilation, or air-conditioning systems	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-89:2019	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 89:Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-9:2019	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 9:Particular requirements for grills, toasters and similar portable cooking appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-90:2019	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 90:Particular requirements for commercial microwave ovens	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-91:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 91:Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-92:2002	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 92:Particular requirements for Pedestrian-controlled mains-operated lawn scarifiers and aerators	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-94:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 94:Particular requirements for scissors type grass shears	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-95:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 95:Particular requirements for drives for vertically moving garage doors for residential use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-96:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 96:Particular requirements for flexible sheet heating elements for room heating	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-97:20 19	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 97:Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-98:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 98:Particular requirements for humidifiers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
IEC 60335-2-100:2 002	Electrical machinery for households	Household and similar electrical appliances - safety-Part 2 - 100:Particular requirements for hand-held mains operated garden blowers, vacuums and blower vacuums	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-101:2 014	Electrical machinery for households	Household and similar electrical appliances - safety-Part 2 - 101:Particular requirements for vaporizers	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-102:2 017	Electrical machinery for households	Household and similar electrical appliances - safety-Part 2 - 102:Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-2-103:2019	Electrical machinery for households	Household and similar electrical appliances - safety-Part 2 - 103: Particular requirements for dirves for gates, doors and windows	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-104:2021	Electrical machinery for households	Household and similar electrical appliances - safety-Part 2 - 104:Particular requirements for appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	a.c. 250 V or less 50 Hz / 60 Hz	N
IEC 60335-2-105:2019	Electrical machinery for households	Household and similar electrical appliances - safety-Part 2 - 105:Particular requirements for multifunctional shower cabonets	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10002:2006	Electrical machinery for households	Particular requirements for half baths and similar equipment	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10003:2006	Electrical machinery for households	Particular requirements for foot baths and similar equipment	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10004:2008	Electrical machinery for households	Particular requirements for electrical beds and similar equipment	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10007:2008	Electrical machinery for households	Particular requirements for water purifier	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10008:2011	Electrical machinery for households	Particular requirements for water ionizer	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10009:2008	Electrical machinery for households	Particular requirements for supersonic washers	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10010:2008	Electrical machinery for households	Particular requirements for sprout and bean sprout growing devices	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10011:2011	Electrical machinery for households	Particular requirements for electrical door look	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
K 10012:2013	Electrical machinery for households	Particular requirements for health appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10013:2008	Electrical machinery for households	Particular requirements for anti-freezing appliances of a waterworks	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10015:2008	Electrical machinery for households	Particular requirements for wet towel rolling devices	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10016:2008	Electrical machinery for households	Particular requirements for wet towel wrapping devices	a.c. 250 V or less 50 Hz / 60 Hz	N
K 10017:2008	Electrical machinery for households	Particular requirements for Pat shower appliances for pats	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 10027:2015	Electrical machinery for households	Safety of household and similar electrical appliances-Particular requirements for heating boards	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 10029:2020	Electrical machinery for households	Safety of household and similar electrical appliances-Particular requirements for electrical mosquito swatter	d.c. 42 V or less	N
KC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 1:General requirements <Exception> 15 Moistureresistance	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-1:2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 1:General requirements <Exception> 15 Moistureresistance	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-10:2015	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 10:Particular requirements for floor treatment machines and wet scrubbing machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-11:2021	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 11:Particular requirements for tumble dryers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-12:2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 12:Particular requirements for warming plates and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KC 60335-2-13:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 13:Particular requirements for deep fat fryers, frying pans and similar appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-14:2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 14:Particular requirements for kitchen machines	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-15:2021	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 15:Particular requirements for appliances for heating liquids	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-15:2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 15:Particular requirements for appliances for heating liquids	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-16:2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 16:Particular requirements for food waste disposers	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-17:2015	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 17:Particular requirements for blenders, pads and similar flexibleheating appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-2:2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 2:Particular requirements for vacuum cleaners and water-suction cleaning appliances	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-21: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 21:Particular requirements for storage water heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-21: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 21:Particular requirements for storage water heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-23: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 23:Particular requirements for skin or hair care	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-23: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 23:Particular requirements for skin or hair care	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-24: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 24:Particular requirements for refrigerating appliances, ice-cream appliances and ice makers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-24: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 24:Particular requirements for refrigerating appliances, ice-cream appliances and ice makers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-25: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 25:Particular requirements for microwave ovens, including combination microwave ovens	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-25: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 25:Particular requirements for microwave ovens, including combination microwave ovens	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-26: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-26:Particular requirements for clocks	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-27: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 27:Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-28: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 28:Particular requirements for sewing machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-29: 2020	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 29:Particular requirements for battery chargers	a.c. 250 V or less three phases 480 V or less ,50 Hz / 60 Hz	N
KC 60335-2-3: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 3:Particular requirements for electric irons	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-30: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 30:Particular requirements for room heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-31: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 31:Particular requirements for range hoods and other cookingfume extractors	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-31: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 31:Particular requirements for range hoods and other cookingfume extractors	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-32: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 32:Particular requirements for massage appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-34: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 34:Particular requirements for motor-compressors	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-35: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 35:Particular requirements for instantaneous water heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-35: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 35:Particular requirements for instantaneous water heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-36: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 36:Particular requirements for commercial electric cooking range,oven, hobs and hob elements	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-37: 2015	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 37:Particular requirements for commercial electric deep fat fryers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-38: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 38:Particular requirements for commercial electric griddles and griddle grills	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-39: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 39:Particular requirements for commercial electric multi-purposecooking pans	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-4: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 4:Particular requirements for spin extractors	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-40: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 40:Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-41: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 41:Particular requirements for pumps	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-42: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 42:Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-43: 2015	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 43:Particular requirements for clothes dryers and towel rails	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-43: 2022	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 43:Particular requirements for clothes dryers and towel rails	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-44: 2021	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2-44:Particular requirements for ironers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-45: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 45:Particular requirements for portable heating tools and similar appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-47: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 47:Particular requirements for commercial electric boiling pans	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-48: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 48:Particular requirements for commercial electric grillers and toasters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-49: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 49:Particular requirements for commercial electric appliances for keeping food and crockery warm	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-5: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 5:Particular requirements for dishwashers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-50: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 50:Particular requirements for commercial electric bains-marie	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-51: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 51:Particular requirements for stationary circulation pumps forheating and service water installations	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-52: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 52:Particular requirements for oral hygiene appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-53: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 53:Particular requirements for sauna heating appliances andinfrared cabins	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-54: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 54:Particular requirements for surface-cleaning appliances forhousehold use employing liquids or steam	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-55: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 55:Particular requirements for electrical appliances for use withaquariums and garden ponds	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-56: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 56:Particular requirements for projectors and similar appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-58: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 58: Particular requirements for commercial electric dishwashing machines	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-58: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 58: Particular requirements for commercial electric dishwashing machines	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-59: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 59:Particular requirements for insect killers	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-6: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 6:Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-6: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 6:Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-60: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 60: Particular requirements for whirlpool baths and whirlpool spas	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-60: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 60: Particular requirements for whirlpool baths and whirlpool spas	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-61: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 61:Particular requirements for thermal storage room heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-62: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 62:Particular requirements for commercial electric rinsing sinks	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-63: 2014	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 63:Particular requirements for commercial water boilers and liquid heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-64: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 64:Particular requirements for commercial electric kitchen machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-65: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 65:Particular requirements for air-cleaning appliances	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-66: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 66:Particular requirements for water-bed heaters	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-67: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 67:Particular requirements for floor treatment machines, for commercial use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-68: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 68:Particular requirements for spray extraction machines, for commercial use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-69: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 69:Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-7: 2021	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 7:Particular requirements for washing machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-7: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 7:Particular requirements for washing machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-70: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 70:Particular requirements for milking machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-70: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 70:Particular requirements for milking machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-71: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 71:Particular requirements for electrical heating appliances for breeding and rearing animals	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-71: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 71:Particular requirements for electrical heating appliances for breeding and rearing animals	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-72: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 72:Particular requirements for floor treatment machines with or without traction drive, for commercial use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-73: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 73:Particular requirements for fixed immersion heaters	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-74: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 74:Particular requirements for portable immersion heaters	a.c. 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-75: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 75:Particular requirements for commercial dispensing appliances and vending machines	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-76: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 76:Particular requirements for electric fence energizers	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-77: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 77:Particular requirements for pedestrian controlled mains-operated lawn mowers	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-78: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 78:Particular requirements for outdoor barbecues	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-79: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 79: Particular requirements for high pressure cleaners and steam cleaners	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-79: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 79: Particular requirements for high pressure cleaners and steam cleaners	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-8: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 8:Particular requirements for shavers, hair clippers and similar appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-80: 2020	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 80: Particular requirements for fans	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-80: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 80: Particular requirements for fans	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
K 60335-2-81: 2009	Electrical machinery for households	Safety of household and similar electrical appliances Part 2:Particular requirements for foot warmers and heating mats	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-82: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 82:Particular requirements for amusement machines and personalservice machines	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-82: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 82:Particular requirements for amusement machines and personalservice machines	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-84: 2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 84:Particular requirements for toilet appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-84: 2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 84:Particular requirements for toilet appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
K 60335-2-85: 2007	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2 - 85 : Particular requirements for fabric steamers	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-88: 2015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 88:Particular requirements for humidifiers intended for use with heating, ventilation, or air-conditioning systems	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-89: 2015	Electrical machinery for households	Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	a.c. 250 V or less 50 Hz / 60 Hz	N
K 60335-2-9: 2013	Electrical machinery for households	Safety of household and similar electrical appliances– Part 2-9 : Particular requirements for grills, toasters and similar portable cooking appliances	a.c. 250 V or less 50 Hz / 60 Hz	N
KC 60335-2-90:20 15	Electrical machinery for households	Household and similar electrical appliances – Safety-Part 2 – 90:Particular requirements for commercial microwave ovens	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-91:20 15	Electrical machinery for households	Household and similar electrical appliances – Safety-Part 2 – 91:Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
K 60335-2-92:20 04	Electrical machinery for households	Household and similar electrical appliances-safety-Part 2 – 92:Particular requirements forPedestrian-controlled mains-operated lawn scarifiers and aerators	a.c. 250 V or less 50 Hz / 60 Hz	N
K 60335-2-94:20 04	Electrical machinery for households	Household and similar electrical appliances-safety-Part 2 – 94:Particular requirements for Scissors type glass shears	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-95:20 15	Electrical machinery for households	Household and similar electrical appliances – Safety-Part 2 – 95:Particular requirements for drives for vertically moving garage doors for residential use	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KC 60335-2-97:20 15	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 97:Particular requirements for drives for rolling shutters, awnings,blinds and similar equipment	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-98:20 15	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 98:Particular requirements for humidifiers	a.c. 250 V or less three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-100:2 020	Electrical machinery for households	Household and similar electrical appliances - Safety - Part 2-100: Particular requirements for hand-held mains-operated garden blowers, vacuums and blower vacuums	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KC 60335-2-101:2 015	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 2 - 101:Particular requirements for vaporizers	a.c. 250 V or less, 50 Hz / 60 Hz	N
K 70000:2008	Electrical machinery for households	Household and similar electrical appliances-safety-Particular requirements for Sterilizers	a.c. 250 V or less 50 Hz / 60 Hz	N
KS C 9101:2019	Electrical machinery for households	Electric vacuum cleaners	rating 100 W or more 2 500 W or less, 60 Hz	N
KS C 9206:2013	Electrical machinery for households	Electric toasters and roasters for household	a.c. 300 V or less 2 000 W or less, 60 Hz	N
KS C 9209:2013	Electrical machinery for households	Hair curling appliances and hand-hold hair dryers	1 000 W or less 60 Hz	N
KS C 9220:2013	Electrical machinery for households	Electric heated resin sheet and heated over-blankets and under-blankets	a.c. 220 V, 60 Hz	N
KS C 9301:2019	Electrical machinery for households	Electric fans and ceiling fans	a.c. 220 V, 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C 9304:2020	Electrical machinery for households	Ventilating fans	a.c. 220 V, 60 Hz	N
KS C 9306:2017	Electrical machinery for households	Air conditioners	1.3 kW or less, 60 Hz cooling capacity 35 000 W	N
KS C 9309:2013	Electrical machinery for households	Electric pots and water heaters	a.c. 300 V or less, 1.5 kW or less, 60 Hz	N
KS C 9310:2013	Electrical machinery for households	Electric rice-cookers and rice jars with electric thermal control	a.c. 300 V or less, 2 kW or less, 60 Hz	N
KS C 9313:2013	Electrical machinery for households	Microwave ovens	2.450 MHz high frequency, 1.0 kW or less, 60 Hz	N
KS C 9314:2019	Electrical machinery for households	Air cleaners	a.c. 250 V or less three phases 480 V or less, 60 Hz	N
KS C 9315:2013	Electrical machinery for households	Drinking-water coolers	500 W or less, 60 Hz	N
KS C 9317:2018	Electrical machinery for households	Dehumidifiers	500 W or less, 60 Hz	N
KS C 9319:2013	Electrical machinery for households	Tumbler type electric clothes dryers	5 kW or less, 60 Hz	N
KS C 9321:2021	Electrical machinery for households	Electrical storage box for kimchi	a.c. 250 V or less three phases 480 V or less, 60 Hz	N
KS C 9608:2013	Electrical machinery for households	Electric washing machines	a.c. 250 V or less three phases 480 V or less, 60 Hz	N
KS C 9805:2013	Electrical machinery for households	Electric storage water boilers for household purposes and storage tank water heaters	30 kW or less, 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-1:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements <Exception> 15 Moistureresistance	a.c. 250 V or less three phases 480 V or less, 60 Hz	N
KS C IEC 60335-2-10:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 10:Particular requirements for floor treatment machines and wet scrubbing machines	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-11:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 11:Particular requirements for tumble dryers	a.c. 250 V or less three phases 480 V or less, 60 Hz	N
KS C IEC 60335-2-12:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 12:Particular requirements for warming plates and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-13:2002	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 13:Particular requirements for deep fat fryers, frying pans and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-14:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 14:Particular requirements for kitchen machines	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-15:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 15:Particular requirements for appliances for heating liquids	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-16:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 16:Particular requirements for food waste disposers	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-17:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 17:Particular requirements for blanke	a.c. 250 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-2:201 2	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 2:Particular requirements for vacuum cleaners and water-suction cleaning appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-21:20 12	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 21:Particular requirements for storage water heaters	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-23:20 16	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 23:Particular requirements for appliances for skin or hair care	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-24:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 24:Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-25:20 15	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 25:Particular requirements for microwave ovens, including combination microwave ovens	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-26:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 26: Particular requirements for clocks	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-27:20 15	Electrical machinery for households	Household and similar electrical appliances — Safety — Part 2-27: Particular requirements for appliances for skin exposure to optical radiation	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-28:20 08	Electrical machinery for households	Household and similar electrical appliances — Safety — Part 2-28: Particular requirements for sewing machines	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-29:20 16	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 29:Particular requirements for battery chargers	a.c. 250 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-3:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 3:Particular requirements for electric irons	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-30:2009	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 30:Particular requirements for room heaters	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-31:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 31:Particular requirements for range hoods	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-32:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 32:Particular requirements for massage appliances	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-34:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 34:Particular requirements for motor-compressors	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-35:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 35:Particular requirements for instantaneous water heaters	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-36:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 36:Particular requirements for instantaneous water heaters	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-37:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 37:Particular requirements for commercial electric deep fat fryers	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-38:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 38:Particular requirements for commercial electric griddles and griddle grills	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-39:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 39: Particular requirements for commercial electric multi-purpose cooking pans	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-4:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 4: Particular requirements for spin extractors	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-40:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers	a.c. 250 V or less, three phases 600 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-41:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 41: Particular requirements for pumps	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-42:2009	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-43:2017	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 43: Particular requirements for clothes dryers and towel rails	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-44:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 44: Particular requirements for ironers	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-45:2012	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 45: Particular requirements for portable heating tools and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-47:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 47: Particular requirements for commercial electric boiling pans	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-48:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 48:Particular requirements for commercial electric grillers and toasters	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-49:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 49:Particular requirements for commercial electric hot cupboards	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-5:201 2	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 5:Particular requirements for dishwashers	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-50:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 50:Particular requirements for commercial electric bains-marie	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-51:20 12	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 51:Particular requirements for stationary circulation pumps for heating and service water installations	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-52:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 52:Particular requirements for oral hygiene appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-53:20 11	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 53:Particular requirements for sauna heating appliances and infrared cabins	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-54:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 54:Particular requirements for surface-cleaning appliances for household use employing liquids or steam	a.c. 250 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-55:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 55:Particular requirements for electrical appliances for use with aquariums and garden ponds	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-56:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 56:Particular requirements for projectors and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-58:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 58: Particular requirements for commercial electric dishwashing machines	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-59:20 09	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 59:Particular requirements for insect killers	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-6:201 4	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-60:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 60: Particular requirements for whirlpool baths	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-61:20 09	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 61:Particular requirements for thermal storage room heaters	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-62:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 62:Particular requirements for commercial electric rinsing sinks	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-64:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 64:Particular requirements for commercial electric kitchen machines	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-65:20 15	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 65:Particular requirements for air-cleaning appliances	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-66:20 12	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 66:Particular requirements for water-bed heaters	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-67:20 16	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 67:Particular requirements for floor treatment and floor cleaning machines, for industrial and commercial use	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-68:20 12	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 68:Particular requirements for spray extraction machines, for commercial use	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-69:20 16	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 69:Particular requirements for wet and dry vacuum cleaners, including power brush, for industrial and commercial use	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-7:201 6	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 7:Particular requirements for washing machines	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-70:20 07	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 70:Particular requirements for milking machines	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-71:20 18	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 71:Particular requirements for electrical heating appliances for breeding and rearing animals	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-72:20 16	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 72:Particular requirements for automatic machines for floor treatment for commercial and industrial use	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-73:20 09	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 73:Particular requirements for fixed immersion heaters	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-74:20 09	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 74:Particular requirements for portable immersion heaters	a.c. 250 V or less,50 Hz / 60 Hz	N
KS C IEC 60335-2-75:20 12	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 75:Particular requirements for commercial dispensing appliances and vending machines	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-76:20 06	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 76:Particular requirements for electric fence energizers	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-77:20 02	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 77:Particular requirements for pedestrian controlled mains-operated lawnmowers	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-78:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 78:Particular requirements for outdoor barbecues	a.c. 250 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-79:20 16	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 79:Particular requirements for high pressure cleaners and steam cleaners	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-8:201 2	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 8:Particular requirements forshavers, hair clippers and similar appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-80:20 15	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 80:Particular requirements for fans	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-81:20 15	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 81:Particular requirements for foot warmers and heating mats	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-82:20 17	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 82:Particular requirements for amusement machines and personal service machines	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-84:20 13	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 84:Particular requirements for toilets	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-85:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 85:Particular requirements for fabric steamers	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-88:20 02	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 88:Particular requirements for humidifiers intended for use with heating,ventilation, or air-conditioning systems	a.c. 250 V or less, three phases 600 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-9:201 2	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 9:Particular requirements for grills, toasters and similar portable cooking appliances	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-90:20 15	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 90:Particular requirements for commercial microwave ovens	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-91:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 91:Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-92:20 02	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 92:Particular requirements for pedestrian-controlled mains-operated lawn scarifiers and aerators	a.c. 250 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-94:20 08	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 94:Particular requirements for scissors type grass shears	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-95:20 11	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 95:Particular requirements for drives for vertically moving garage doors for residential use	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-96:20 09	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 96:Particular requirements for flexible sheet heating elements for room heating	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-97:20 16	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 97:Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
KS C IEC 60335-2-98:2008	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 98:Particular requirements for humidifiers	a.c. 250 V or less, three phases 480 V or less, 50 Hz / 60 Hz	N
KS C IEC 60335-2-101:2002	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 2 - 101:Particular requirements for vaporizers	(d.c / a.c.) 250 V or less, 50 Hz / 60 Hz	N
KS P 6108:2010	Electrical machinery for households	Blood and pharmacy storage electric refrigerator and freezers	(d.c. / a.c.) 250 V or less multiphase 500 V or less	N
KC 10018:2021	Electrical machinery for households	Safety of household and similar electrical appliances-Particular requirements for electrical warm-water mattress and bed	a.c. 250 V or less 50 Hz/ 60 Hz	N
K 10019:2009	Electrical machinery for households	Safety of household and similar electrical appliances-Particular requirements for the electrical boiler of electrical warm-water mattress and bed	a.c. 250 V or less 50 Hz/ 60 Hz	N
K 10020:2021	Electrical machinery for households	Safety of household and similar electrical appliances-Particular requirements for electrical warmer(heating pad)	a.c. 250 V or less 50 Hz/ 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62552:2007	Electrical machinery for households	Household refrigerating appliances – Characteristics and test methods	250 Vac or less 50 Hz / 60 Hz	N
IEC 62552-1:2015	Electrical machinery for households	Household refrigerating appliances-Characteristics and test methods-Part 1:General requirements	250 Vac or less 50 Hz / 60 Hz	N
IEC 62552-2:2015	Electrical machinery for households	Household refrigerating appliances-Characteristics and test methods-Part 2:Performance requirements	250 Vac or less 50 Hz / 60 Hz	N
IEC 62552-3:2015	Electrical machinery for households	Household refrigerating appliances-Characteristics and test methods-Part 3:Energy consumption and volume	250 Vac or less 50 Hz / 60 Hz	N
KS C IEC 62552:2007	Electrical machinery for households	Household refrigerating appliances – Characteristics and test methods	250 Vac or less 50 Hz / 60 Hz	N
BS EN 62552:2013	Electrical machinery for households	Household refrigerating appliances. Characteristics and test methods	250 Vac or less 50 Hz / 60 Hz	N
IEC 60456 ed.5.0:2010	Electrical machinery for households	Clothes washing machines for household use-Methods for measuring the performance	250 Vac or less 50 Hz / 60 Hz	N
KS C IEC 60456:2010	Electrical machinery for households	Clothes washing machines for household use-Methods for measuring the performance	250 Vac or less 50 Hz / 60 Hz	N
C360-03:2009	Electrical machinery for households	Energy Performance, Water Consumption, and Capacity of Household Clothes Washers(CSA C360-03)	AC 250 V or less 50 Hz / 60 Hz	N
NOM-015-EN ER-2018	Electrical machinery for households	Household Refrigerating Appliances – Characteristics and Test Methods	Input Power:Max. 10 kW	N
NOM-021-EN ER-SCFI:2008	Electrical machinery for households	Energy efficiency and safety requirements to the user in room type air conditioners. Limits, test methods and labelling	Input Power:Max. 10 kW	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
NOM-023-EN ER:2010	Electrical machinery for households	Energy efficiency for separated assemblies, free delivery and non-ducted air conditioners. Limits, test methods and labelling	Input Power:Max. 10 kW	N
BS EN 62552:2013	Electrical machinery for households	Household Refrigerating Appliances – Characteristics and Test Methods	AC 250 V or less 50 Hz / 60 Hz	N
NMX-J-585-A NCE-2007	Electrical machinery for households	Household and similar electrical appliances – Test Method for energy performance, water consumption and capacity of household clothes washing machine	(0 ~ 5) kW	N
NTE INEN 2659:2013	Electrical machinery for households	Appliances and similar. Clothes washing machine. Test methods for energy Consumption Water consumption and volumetric capacity.	(0 ~ 5) kW	N
NTE INEN 2206:2011	Electrical machinery for households	Household refrigerating appliances with or without frosting. Refrigerators with or without low temperature compartment. Inspection Requirements	10 kW	N
IEC 60456 Ed 5.0:2010-02	Electrical machinery for households	Clothes washing machines for Household use Methods for measuring the performance Fourth Edition	AC 250 V or less 50 Hz / 60 Hz	N
BS EN 60456:2016	Electrical machinery for households	Clothes washing machines for Household use Methods for measuring the performance Fourth Edition	AC 250 V or less 50 Hz / 60 Hz	N
IEC 62512 Ed1.0 2012-09	Electrical machinery for households	Electric clothes washer-dryers for household use – Methods for measuring the performance	AC 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 62301 Ed2.0 2011-01	Electrical machinery for households	Household electrical appliances-Measurement of standby power	AC 250 V or less 50 Hz / 60 Hz	N
UAE.S5010 2:2013	Electrical machinery for households	Energy efficiency label for electrical appliances Part 2:Washing Machines and Dryers	AC 250 V or less 50 Hz / 60 Hz	N
NTE INEN 2659:2013	Electrical machinery for households	Appliances and similar. Clothes washing machine. Test methods for energy Consumption Water consumption and volumetric capacity.	AC 250 V or less 50 Hz / 60 Hz	N
RTE INEN 035:2009	Electrical machinery for households	Energy efficiency in refrigeration appliances for household use. Report power consumption test methods and labeling	10 kW	N
RTE INEN 077:2013	Electrical machinery for households	Energy efficiency clothes washers household electric. limits test method and labeling	AC 250 V or less 50 Hz / 60 Hz	N
RTE INEN 124:2014	Electrical machinery for households	Energy efficiency and labeling of washer dryer machine	AC 250 V or less 50 Hz / 60 Hz	N
SASO 2692:2013	Electrical machinery for households	Energy Labelling Requirement of Clothes Washing Machines for Household Use	AC 250 V or less 50 Hz / 60 Hz	N
SASO 2693:2007	Electrical machinery for households	Method for Measuring the Performance of Clothes Washing for Household Use	AC 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
SASO 2683:2007	Electrical machinery for households	Clothes washing machines for household use-Methods for measuring the performance	AC 250 V or less 50 Hz / 60 Hz	N
SASO 2664:2013	Electrical machinery for households	Energy Performance and Capacity of Household Refrigerators Refrigerators-Freezers and Freezers	Input Power:Max. 10 kW	N
TCVN 8526:2013	Electrical machinery for households	Electric washing machine -. Minimum energy performance and method for determination of energy efficiency	AC 250 V or less 50 Hz / 60 Hz	N
TCVN 7627:2007	Electrical machinery for households	Refrigerating Equipment appliances - Characteristics and testmethods	Input Power:Max. 10 kW	N
TCVN 7829:2013	Electrical machinery for households	Refrigerator, refrigerator-freezer-Method for determination of energy Efficiency	(0 ~ 600) V (0 ~ 20) A	N
TCVN 7828:2013	Electrical machinery for households	Refrigerator, refrigerator-freezer-Energy Efficiency	(0 ~ 600) V (0 ~ 20) A	N
10 CFR Appendix J2 to Subpart B of Part 430:2017	Electrical machinery for households	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-automatic Clothes Washers	AC 250 V or less 50 Hz / 60 Hz	N
ENERGY STAR Final Version 8.0 Clothes Washer Partner Commitments and Eligibility Criteria:2018	Electrical machinery for households	ENERGY STAR® Program Requirements Product Specification for Clothes Washers	AC 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No. 2021-69 (04.20.2021.)	Electrical machinery for households	Energy Efficiency Product Management Regulations Schedule 43. Clothes Dryers	AC 220 V 60 Hz Rated washing capacity 1 kg or more 20 kg or less	N
IEC 61121:2012	Electrical machinery for households	Dryers For Household Use-Methods For Measuring The Performance	AC 250 V or less 50 Hz / 60 Hz	N
IEC62512 Edition1.0:2012 -09	Electrical machinery for households	Electric clothes washer-dryers for household use - Methods for measuring the performance	AC 250 V or less 50 Hz / 60 Hz	N
KS C IEC 61121:2012	Electrical machinery for households	Dryers for household use-Methods for measuring the performance	AC 250 V or less 50 Hz / 60 Hz	N
EN 61121:2005	Electrical machinery for households	Dryers for household use-Methods for measuring the performance	AC 250 V or less 50 Hz / 60 Hz	N
EN 61121:2013	Electrical machinery for households	Dryers for household use-Methods for measuring the performance	AC 250 V or less 50 Hz / 60 Hz	N
SASO IEC 62552:2014	Electrical machinery for households	Household refrigerating appliances - Characteristics and test methods	AC 250 V or less 50 Hz / 60 Hz	N
UAE.S 5010-2:2019	Electrical machinery for households	LABELING - ENERGY EFFICIENCY LABEL FOR ELECTRICAL APPLIANCESPART 2:WASHING MACHINES AND DRYERS	AC 250 V or less 50 Hz / 60 Hz	N
SASO 2892:2018	Electrical machinery for households	REFRIGERATORS, REFRIGERATOR-FREEZERS AND FREEZERS ENERGY PERFORMANCE, TESTING AND LABELING REQUIREMENTS	AC 250 V or less 50 Hz / 60 Hz	N
SASO 2883:2017	Electrical machinery for households	Electrical Clothes Dryers- Energy Performance Requirements and Labelling	AC 250 V or less 50 Hz / 60 Hz	N
INTE E11-3:2015	Electrical machinery for households	Household Refrigerating Appliances - Characteristics and Test Methods	AC 250 V or less 50 Hz / 60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
RT DGNTI-COPA NIT 105:2017 + DGNTI-COPA NIT 511:2017	Electrical machinery for households	ENERGY EFFICIENCY HOUSEHOLD REFRIGERATORS AND FREEZERS	AC 250 V or less 50 Hz / 60 Hz	N
RTS 97.01.01:15	Electrical machinery for households	Household Refrigerating Appliances – Characteristics and Test Methods	AC 250 V or less 50 Hz / 60 Hz	N
IEC 60456 Ed 4.0:2003	Electrical machinery for households	Clothes Washing machines for household use-Methods for measuring the performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
EN 50229:2007	Electrical machinery for households	Electric Clothes Washer-Dryers For Household Use-Methods Of Measuring The Performance (Exception) 9.5 Determination of airborne acoustical noise	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
EN 50229:2015	Electrical machinery for households	Electric Clothes Washer-Dryers For Household Use-Methods Of Measuring The Performance(Exception) 9.5 Determination of airborne acoustical noise	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
EN 60456:2005	Electrical machinery for households	Clothes Washing machines for household use-Methods for measuring the performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
EN 60456:2010	Electrical machinery for households	Clothes Washing machines for household use-Methods for measuring the performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
EN 60456:2011	Electrical machinery for households	Clothes Washing machines for household use-Methods for measuring the performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
EN 60456:2016	Electrical machinery for households	Clothes Washing machines for household use-Methods for measuring the performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
BS EN 60456:2011	Electrical machinery for households	Clothes Washing machines for household use-Methods for measuring the performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
SANS 50229:2010	Electrical machinery for households	Electric Clothes Washer-Dryers For Household Use-Methods Of Measuring The Performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
SANS 61121:2015	Electrical machinery for households	Tumble Dryers For Household Use-Methods for Measuring The Performance	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N
SANS 62552:2008	Electrical machinery for households	Household Refrigerating Appliances-Characteristics and Test Methods	Input Voltage:SinglePhase Max. 250 V Frequency:50/60 Hz	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No.2021-69 (04.20.2021.)	Electrical machinery for industries Electrical machinery for household	The provisions for Certification of efficiency energy-using appliances Program	-	
		1. Electric refrigerator	capacity 500 L under, capacity 500 L or less	N
		3. kimchi refrigerator	rated voltage 220 V $\pm 2 \%$, 60 Hz $\pm 1 \%$	N
		4. Air conditioners	220 V / 380 V, 60Hz, cooling: 40 kW or less heating: 30 kW or less	N
		5. Electric washing machine	250 V or less 50 Hz / 60 Hz 2 kg ~ 25 kg	N
		9. Electric storage water heaters & freer	single phase 220 V, 60 Hz cooling: 500 W or less, heating: 1 000W or less	N
		10. Electric rice cooker	single phase 220 V, 60 Hz	N
		12. Electric fans	single phase 220 V, 60 Hz, diameter 0.02 m or more 0.041 m or less	N
		22. Commercial electric refrigerator	Max 30 kW	N
		28. Electric Stove	rated power consumption: 500 W ~ 10 kW	N
		31. Electric heated resin sheet	rated power consumption: 200 W ~ 1 000 W	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No.2021-69 (04.20.2021.)	Electrical machinery for industries Electrical machinery for household	The provisions for Certification of efficiency energy-using appliances Program (continuously)	-	N
		32. Electric mat water heaters	rated power consumption: 200 W ~ 1 000 W	N
		33. Heating board	rated power consumption: 200 W ~ 1 000 W	N
		34. Electric bed	rated power consumption: 200 W ~ 1 000 W	N
		35. Electric radiator	rated power consumption: 500 W ~ 10 kW	N
		36. Hot plates	rated power consumption: 1 kW ~ 10 kW	N

Korea Laboratory Accreditation Scheme

No. KT005

Satellite facilities-1. 57, Yangcheong 3-gil, Ochang-eup, Cheongwon-gun,

Chungcheongbuk-do, Republic of Korea

03 Electric Test

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
KS B ISO 5151:2017	Electrical machinery for households	Non-ducted air conditioners and heat pumps - Testing and rating for performance	1 750 W ~ 43 500 W	N
KS B ISO 13253:2017	Electrical machinery for households	Ducted air-conditioners and air-to-air heat pumps - Testing and rating for performance	1 750 W ~ 43 500 W	N
KS B ISO 15042:2017	Electrical machinery for households	Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating for performance	1 750 W ~ 43 500 W	N
KS C 9306:2017	Electrical machinery for households	Air conditioners	1 750 W ~ 43 500 W	N
ISO 5151:2017	Electrical machinery for households	Non-ducted air conditioners and heat pumps-Testing and rating for performance	1 750 W ~ 43 500 W	N
ISO 13253:2017	Electrical machinery for households	Ducted air-conditioners and air-to-air heat pumps-Testing and rating for performance	1 750 W ~ 43 500 W	N
ISO 15042:2017	Electrical machinery for households	Multiple split-system air-conditioners and air-to-air heat pumps-Testing and rating for performance	1 750 W ~ 43 500 W	N
ISO 16358-1:2013	Electrical machinery for households	Air-cooled air conditioners and air-to-air heat pumps-Testing and calculating methods for seasonal performance factors-Part 1:Cooling seasonal performance factor	1 750 W ~ 43 500 W	N
ISO 16358-2:2013	Electrical machinery for households	Air-cooled air conditioners and air-to-air heat pumps-Testing and calculating methods for seasonal performance factors-Part 2:Heating seasonal performance factor	1 750 W ~ 43 500 W	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
ISO 16358-3:2013	Electrical machinery for households	Air-cooled air conditioners and air-to-air heat pumps-Testing and calculating methods for seasonal performance factors-Part 3:Annual performance factor	1 750 W ~ 43 500 W	N
NOM-021-EN ER-SCFI:2008	Electrical machinery for households	Energy efficiency and safety requirements to the user in room type air conditioners. Limits, test methods and labelling	1 750 W ~ 43 500 W	N
NOM-023-EN ER:2010	Electrical machinery for households	Energy efficiency for separated assemblies, free delivery and non-ducted air conditioners. Limits, test methods and labelling	1 750 W ~ 43 500 W	N
NOM-026-EN ER:2015	Electrical machinery for households	Energy efficiency in split-type (inverter) air conditioners with variable refrigerant flow, free download and without air ducts. Limits, test methods and labelling	1 750 W ~ 43 500 W	N
NTE INEN 2495:2012	Electrical machinery for households	Energy efficiency of non-ducted air conditioners. Requirements	1 750 W ~ 43 500 W	N
AS/NZS 3823.1.1:2012	Electrical machinery for households	Performance of electrical appliances - Air conditioners and heat pumps - Non-ducted airconditioners and heat pumps - Testing and rating for performance	1 750 W ~ 43 500 W	N
AS/NZS 3823.1.2:2012	Electrical machinery for households	Performance of electrical appliances - Air conditioners and heat pumps - Ducted air conditioners and air-to-air heat pumps - Testing and rating for performance	1 750 W ~ 43 500 W	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
AS/NZS 3823.2:2013	Electrical machinery for households	Performance of electrical appliances – Air conditioners and heat pumps – Energy labelling and minimum energy performance standards (MEPS) requirements	1 750 W ~ 43 500 W	N
AS/NZS 3823.3:2002	Electrical machinery for households	Performance of electrical appliances – Air conditioners and heat pumps – Calculation of performance for minimum energy performance standard (MEPS) requirements	1 750 W ~ 43 500 W	N
JIS C 9612:2013	Electrical machinery for households	Room air conditioners	1 750 W ~ 43 500 W	N
ANSI/ASHRAE Standard 16:2016	Electrical machinery for households	Method of testing for rating room air conditioners, packaged terminal air conditioners, and packaged terminal heat pumps for cooling and heating capacity	1 750 W ~ 43 500 W	N
ANSI/ASHRAE Standard 37:2009	Electrical machinery for households	Methods of testing for rating electrically driven unitary air-conditioning and heat pump equipment	1 750 W ~ 43 500 W	N
AHRI Standard 210/240:2017	Electrical machinery for households	Performance rating of unitary air-conditioning & air-source heat pump equipment	1 750 W ~ 43 500 W	N
SASO 2663:2018	Electrical machinery for households	Air conditioners – Minimum energy performance, labelling and testing requirements for low capacity window and single-split types	1 750 W ~ 43 500 W	N
SASO 2681:2013	Electrical machinery for households	Non-ducted air conditioners and heat pumps – Testing and rating for performance	1 750 W ~ 43 500 W	N
SASO 2682:2007	Electrical machinery for households	Ducted air-conditioners and air-to-air heat pumps – Testing and rating for performance	1 750 W ~ 43 500 W	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
SASO 2763:2008	Electrical machinery for households	Safety and performance requirements for window air-conditioners and their method of test	1 750 W ~ 43 500 W	N
SANS 54511-3:2016	Electrical machinery for households	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling-Part 3:Test methods	1 750 W ~ 43 500 W	N
EN 14511-3:2018	Electrical machinery for households	Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors. Test methods	1 750 W ~ 43 500 W	N
EN 14825:2018	Electrical machinery for households	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Testing and rating at part load conditions and calculation of seasonal performance	1 750 W ~ 43 500 W	N
ISO 5151:2010	Electrical machinery for households	Non-ducted air conditioners and heat pumps. Testing and rating for performance	1 750 W ~ 43 500 W	N
ISO 13253:2011	Electrical machinery for households	Ducted air-conditioners and air-to-air heat pumps-- Testing and rating for performance	1 750 W ~ 43 500 W	N

Korea Laboratory Accreditation Scheme

No. KT005

03.013 Energy Efficiency

Test method	Products and materials	Standard designation	Test range	Field testing
MOTIE Notice No. 2021-69 (04.20.2021.)	Electrical machinery for households	Energy Efficiency Product Management Regulations	-	N
		4. Air-conditioner	rated cooling power consumption 7.5 kW or less rated cooling capacity 23 kW or less	
		21. Electric driven heat pump	rated cooling power consumption 30 kW or less rated cooling capacity 23 kW or less	
		27. Electric Fan Heater	rated cooling power consumption of 500 kW, 10 kW or less	
		29. Multi Heat Pump System (VRF)	rated cooling capacity less than 70 kW	
		30. Dehumidifier	Electric power consumption 1 kW or less	
MOTIE Notice No. 2021-68 (04.20.2021.)	Electrical machinery for households	Regulation on promoting the dissemination of high-efficiency equipment 10. thermo-hygrostats	rated cooling capacity of 6 kW, 35 kW or less	N

Korea Laboratory Accreditation Scheme

No. KT005

Satellite facilities-2. 22 Heungan-daero 27beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea

03 Electric Test

03.007 Electrical machinery for households

Test method	Products and materials	Standard designation	Test range	Field testing
IEC 60335-1:2020	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements 15 Moistureresistance	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements 15 Moistureresistance	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
IEC 60335-1:2013	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements 15 Moistureresistance	a.c. 250 V or less three phases 480 V or less,50 Hz / 60 Hz	N
KC 60335-1:2016	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 1:General requirements 15 Moistureresistance	a.c. 250 V or less three phases 433 V or less,50 Hz / 60 Hz	N
KC 60335-1:2022	Electrical machinery for households	Household and similar electrical appliances - Safety-Part 1:General requirements 15 Moistureresistance	a.c. 250 V or less three phases 433 V or less,50 Hz / 60 Hz	N
KS C IEC 60335-1:2019	Electrical machinery for households	Household and similar electrical appliances-Safety-Part 1:General requirements 15 Moistureresistance	a.c. 250 V or less three phases 480 V or less, 60 Hz	N

End.

CERTIFICATE OF ACCREDITATION

NCT Co., Ltd.

Accreditation No. : KT689

Corporation Registration No. : 134511-0245404

Address of Laboratory : (Branch site)211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, Republic of Korea

(Satellite facilities-1)370-26, Wonam-ro, Namsa-eup, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea

(Satellite facilities-2)10-26, Dongtansandan 5-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea

Date of Initial Accreditation : January 21, 2016

Validity of Accreditation : January 21, 2024 ~ January 20, 2028

Scope of Accreditation : Attached Annex

Date of issue : November 30, 2023

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

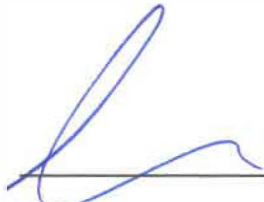
Korea Laboratory Accreditation Scheme

Date: February 3rd, 2025

Certificate of Conformity

We, ENTEC Electric & Electronic Co., Ltd., hereby evidence that the Goods and Related services conform in all respects Technical Specification and Guaranteed Technical Particulars of 15KV Three Phase Automatic Circuit Recloser from RED Nord Utility.

Signature :



Name : Bobae Lee



In the capacity of General Manager

Duly authorized to sign the Tender for and on behalf of:

ENTEC Electric & Electronic Co., Ltd.

ELECTROCON SRL

Document No.: EN-MD-240203

Date: February 3rd, 2025

Certificate of Warranty

We, ENTEC Electric & Electronic Co., Ltd., warrant that all material and equipment to be furnished under the proposal shall be new and free of defects in workmanship and material, and shall quality specified in the technical specification in relation to our **15kV Three Phase Automatic Circuit Reclosers**. If the purchaser discovers any defects in workmanship and/or material and notifies the supplier promptly in writing within **two (2) years** from the date of supply, we shall remedy such defects of non-conformance to the specifications at our expense by adjustment, repair or replacement at the option of the purchaser.

Signed:

Bobae Lee / General Manager

On Behalf of ENTEC Electric and Electronic Co., Ltd.

