Hi-MO 6 Explorer

LR5-72HTH 560~580M

- Suitable for Distribution Market
- Simple design embodies modern style
- Better energy generation performance
- High-quality module guarantees long-term reliability



15-year Warranty for Materials and Processing



25-year Warranty for Extra Linear Power Output

Complete System and **Product Certifications**

IEC 61215, IEC 61730, UL 61730

ISO9001:2015: ISO Quality Management System

ISO14001: 2015: ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety

IEC62941: Guideline for module design qualification and type approval











LR5-72HTH 560~580M

22.5%

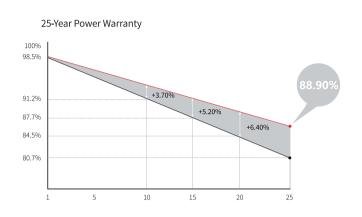
MAX MODULE

EFFICIENCY

0~3%
POWER
TOLERANCE

<1.5% FIRST YEAR POWER DEGRADATION 0.40% YEAR 2-25 POWER DEGRADATION

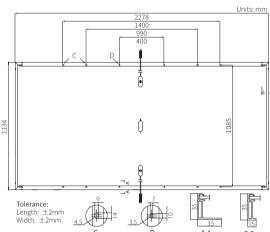
Additional Value



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm², +400, -200mm/ \pm 1400mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27.5kg
Dimension	2278×1134×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 620pcs per 40' HC





Electrical Characteristics	STC:AM1.	5 1000W/n	n² 25°C	NOCT : A	M1.5 800V	I/m² 20°C :	1m/s Test	uncertainty for Pr	max: ±3%	
Module Type	LR5-72H	ITH-560M	LR5-72H	HTH-565M	LR5-72	2HTH-570M	LR5-72I	HTH-575M	LR5-72H	ITH-580M
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	560	418	565	422	570	426	575	430	580	433
Open Circuit Voltage (Voc/V)	51.61	48.46	51.76	48.60	51.91	48.74	52.06	48.88	52.21	49.02
Short Circuit Current (Isc/A)	13.94	11.26	14.01	11.31	14.07	11.36	14.14	11.42	14.20	11.47
Voltage at Maximum Power (Vmp/V)	43.46	39.66	43.61	39.79	43.76	39.93	43.91	40.07	44.06	40.20
Current at Maximum Power (Imp/A)	12.89	10.55	12.96	10.61	13.03	10.67	13.10	10.72	13.17	10.78
Module Efficiency(%)	2.	1.7	2	1.9		22.1	2	2.3	2:	2.5

Operating Parameters

Operational Temperature	-40°C ~ +85°C	
Power Output Tolerance	0 ~ 3%	
Voc and Isc Tolerance	±3%	
Maximum System Voltage	DC1500V (IEC/UL)	
Maximum Series Fuse Rating	25A	
Nominal Operating Cell Temperature	45±2°C	
Protection Class	Class II	
Fire Rating	UL type 1 or 2 IEC Class C	

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C







Attestation of Conformity

No. N8A 099333 0066 Rev. 13

Holder of Certificate: LONGi Green Energy Technology Co., Ltd.

No. 388, Middle Hangtian Road

Chang'an District

710100 Xi'an City, Shaanxi

PEOPLE'S REPUBLIC OF CHINA

Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Mono-Crystalline Silicon Photovoltaic Module

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061700516-21

Date, 2022-07-01

(Zhulin Zhang)

Page 1 of 2

After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.







Attestation of Conformity

No. N8A 099333 0066 Rev. 13

LR6-72HV-xxxM, (xxx=335-360 in step of 5) Model(s): LR6-60HV-xxxM, (xxx=280-300 in step of 5)

LR6-72PH-xxxM, (xxx=340-380 in step of 5)

LR6-60PH-xxxM, (xxx=285-315 in step of 5)

LR6-72HPH-xxxM, (xxx=365-395 in step of 5)

LR6-72HIH-xxxM, (xxx=365-395 in step of 5)

LR6-60HPH-xxxM, (xxx=300-325 in step of 5) LR6-60HIH-xxxM, (xxx=300-325 in step of 5)

LR6-72OPH-xxxM, (xxx=385-415 in step of 5)

LR6-60OPH-xxxM, (xxx=335-365 in step of 5)

LR6-72HPH-xxxMC, (xxx=375-390 in step of 5)

LR6-60HPH-xxxMC, (xxx=305-325 in step of 5)

LR4-72HPH-xxxM, (xxx=420-465 in step of 5)

LR4-72HIH-xxxM, (xxx=420-465 in step of 5)

LR4-60HPH-xxxM, (xxx=350-380 in step of 5)

LR4-60HIH-xxxM, (xxx=350-380 in step of 5)

LR4-72ZPH-xxxM, (xxx=420-435 in step of 5)

LR4-60ZPH-xxxM, (xxx=350-365 in step of 5) LR6-60ZPH-xxxM, (xxx=330-355 in step of 5)

LR4-78ZPH-xxxM, (xxx=455-485 in step of 5)

LR5-72HPH-xxxM, (xxx=525-555 in step of 5) LR5-66HPH-xxxM, (xxx=480-505 in step of 5)

LR4-66HPH-xxxM, (xxx=395-415 in step of 5)

LR4-66HIH-xxxM, (xxx=395-415 in step of 5)

LR5-72HIH-xxxM, (xxx=525-550 in step of 5)

LR5-66HIH-xxxM, (xxx=480-505 in step of 5)

LR5-78HPH-xxxM, (xxx=575-595 in step of 5)

LR5-78ZPH-xxxM, (xxx=565-585, in step of 5)

LR4-50HPH-xxxM, (xxx=305-320, in step of 5)

LR4-66HTB-xxxM, (xxx=410-430 in step of 5)

LR4-60HTB-xxxM, (xxx=370-390 in step of 5)

LR5-54HPH-xxxM, (xxx=395-415 in step of 5) LR4-66HTH-xxxM, (xxx=420-440 in step of 5)

LR4-60HTH-xxxM, (xxx=380-400 in step of 5)

LR5-54HIH-xxxM, (xxx=395-415 in step of 5)

LR5-72HTH-xxxM, (xxx=555-600 in step of 5)

LR5-54HTH-xxxM,(xxx=420-450 in step of 5)

LR5-54HTB-xxxM, (xxx=410-440 in step of 5)

xxx stands for rated output power at STC

Parameters: Fire Safety Class: Class C according to UL790

Safety Class:

Class II

Maximum System Voltage: 1500V DC Test Laboratory:

Yangzhou Opto-Electrical

Products Testing Institute.

No.10 West Kaifa Road, Yangzhou

225009 Jiangsu, P.R. China

Construction: Framed, with Junction box, cable and

connector.

EN IEC 61730-1:2018 **Tested**

EN IEC 61730-1:2018/AC:2018-06 according to:

EN IEC 61730-2:2018

EN IEC 61730-2:2018/AC:2018-06

Page 2 of 2

After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.





CE Declaration of Conformity

February 18th, 2022

Manufacturer: LONGI Green Energy Technology Co., Ltd.

Address: No. 388 Middle Hangtian Road, 710100 Xi'an City, Shaanxi, PRC

Product: Photovoltaic (PV) Module

Brand: LONGi

Model(s):

LR4-60 ZZZ XXX M
 LR5-54 ZZZ XXX M
 LR5-66 ZZZ XXX M
 LR5-72 ZZZ XXX M

LR6-60 ZZZ XXX M
 LR6-72 ZZZ XXX M

ZZZ stands for module type (HIH, HIB, HIBD, HPH, HBD, HPB, HTH, HTB) XXX indicates module nameplate power in Watt.

LONGi Solar Technologie GmbH herewith confirms that it's PV modules comply with the requirements set out in the European Union Directive 2014/35/EU (Low Voltage Directive – LVD) for the electrical equipment used in certain voltage limits and 2014/30/EU (Electromagnetic Imission – EMI). For the evaluation of the conformance with these Directives, the following IEC standards were applied:

- IEC 61215-1:2016 (Terrestrial PV modules Design qualification and type approval)
- IEC 61730-1:2016 (Photovoltaic (PV) module safety qualification)

based on: report 704061700516-X issued by TÜV Süd for 1.500 V monofacial products

report 704061802022-X issued by TÜV Süd for 1.000 V monofacial products report 704061700509-X issued by TÜV Süd for 1.500 V bifacial products

Responsible for making this declaration is the manufacturer and/or it's authorized representative within the European Union (LONGi Solar Technologie GmbH).

i.A. Winfried Wahl

Head of Product Marketing

tipied Well



客户信息 Customer 产品名称 Product 标称功率(W) Nominal Power(W)

绝缘耐压测试

Dielectric strength test

泰州隆基光伏科技有限公司 LONGi SolarTechnology (TaiZhou)Co.,Ltd

LGiLE-Q-QED-095-A01-V05

			戏品出货档 nent Inspe	捡验报告 ection Certificat	ee	
					NO.LR04033202307140161	
户信息 ustomer			数量(块) Quantity(pcs)		31	
品名称 光伏组件 Photovoltaic modules		产品型号 Product Model		LR5-72HTH-M		
称功率(W) al Power(W)	580		产品规格(mm) Product Size(mm)		2278*1134*35	
检验项目 Inspection Item	ns	检验标准(或技术罗 Inspection Criter	2000		检验结果 Result	
外观质量 Appearance Qua	外观质量 LGiLE-Q-QED-009-A01 1102分 earance Quality 组件(半片电池)外观检验标		1102分布式 检验标准		ОК	
组件尺寸 1102 Distributed Appear for module(half			OK			
LGiLE-Q-QED- 功率测试 组件功率及电流分 Power Grading Rules of Mod		当规定		ОК		

EL 检测 EL Test	LGILE-Q-QED-009-A02 1102分布式 组件(半片电池)EL检验标准 1102 Distributed EL criteria for module (half cell)	OK	
包 装 Package	LGiLE-T-PRD-112 带框组件包装装箱手册 Packing Mannual of Conventional Module	ОК	
检验结论 Result		检验合格,符合标准要求,准予出厂 meet the quality requirements,Granted the factory	

and Current

IEC61215:2016

产品质量合格证 **Product Certificate of Quality**

根据泰州隆基光伏科技有限公司的质量相关要求,隆基乐叶光伏组件产品特征经检验符合以下标准: According to quality requirements of LONGi SolarTechnology (TaiZhou) Co., Ltd after inspection LONGi Solar module's features conform below criteria:

序号 No.	产品规格(mm) Product Size(mm)	外观 Appearance	电性能 Electrical Performance	各项指标 Test Indexes
. 1	2278*1134*35	合格 Accept	合格 Accept	合格 Accept

特此证明以上泰州隆基光伏有限公司供应的产品满足质量要求。

We hereby certify that: all above products supplied by LONGi SolarTechnology (TaiZhou) Co., Ltd. meet the quality requirements.

泰州隆基光伏科技有限公司

OK

LONGi SolarTechnology (TaiZhou) Co., Ltd.

检验员(Inspector):

钱金鑫

审核人(Auditor):

吴中建

日期





CERTIFICATE

No. Z2 099333 0045 Rev. 23

Holder of Certificate: LONGi Green Energy Technology Co., Ltd.

No. 388, Middle Hangtian Road

Chang'an District

710100 Xi'an City, Shaanxi

PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061700516-23

Valid until: 2027-09-07

Date, 2022-09-08

gatio

(Zhulin Zhang)



CERTIFICATE

No. Z2 099333 0045 Rev. 23

Model(s):

LR6-60HV-xxxM, (xxx=280-300 in step of 5) LR6-72PH-xxxM, (xxx=340-380 in step of 5) LR6-60PH-xxxM, (xxx=285-315 in step of 5) LR6-72HPH-xxxM, (xxx=365-395 in step of 5) LR6-72HIH-xxxM, (xxx=365-395 in step of 5) LR6-60HPH-xxxM, (xxx=300-325 in step of 5) LR6-60HIH-xxxM, (xxx=300-325 in step of 5) LR6-72OPH-xxxM, (xxx=385-415 in step of 5) LR6-60OPH-xxxM, (xxx=335-365 in step of 5) LR6-72HPH-xxxMC, (xxx=375-390 in step of 5) LR6-60HPH-xxxMC, (xxx=305-325 in step of 5) LR4-72HPH-xxxM, (xxx=420-465 in step of 5) LR4-72HIH-xxxM, (xxx=420-465 in step of 5) LR4-60HPH-xxxM, (xxx=350-380 in step of 5) LR4-60HIH-xxxM, (xxx=350-380 in step of 5) LR4-72ZPH-xxxM, (xxx=420-435 in step of 5) LR4-60ZPH-xxxM, (xxx=350-365 in step of 5) LR6-60ZPH-xxxM, (xxx=330-355 in step of 5) LR4-78ZPH-xxxM, (xxx=455-485 in step of 5) LR5-72HPH-xxxM, (xxx=525-575 in step of 5) LR5-66HPH-xxxM, (xxx=480-530 in step of 5) LR4-66HPH-xxxM, (xxx=395-415 in step of 5) LR4-66HIH-xxxM, (xxx=395-415 in step of 5) LR5-72HIH-xxxM, (xxx=525-575 in step of 5) LR5-66HIH-xxxM, (xxx=480-530 in step of 5) LR5-78HPH-xxxM, (xxx=575-595 in step of 5) LR5-78ZPH-xxxM, (xxx=565-585, in step of 5) LR4-50HPH-xxxM, (xxx=305-320, in step of 5) LR4-66HTB-xxxM, (xxx=410-430 in step of 5) LR4-60HTB-xxxM, (xxx=370-390 in step of 5) LR5-54HPH-xxxM, (xxx=395-435 in step of 5) LR4-66HTH-xxxM, (xxx=420-440 in step of 5) LR4-60HTH-xxxM, (xxx=380-400 in step of 5) LR5-54HIH-xxxM, (xxx=395-435 in step of 5) LR5-72HTH-xxxM, (xxx=555-600 in step of 5) LR5-54HTH-xxxM, (xxx=420-450 in step of 5) LR5-54HTB-xxxM, (xxx=410-440 in step of 5) LR5-60HPH-xxxM, (xxx=435-480 in step of 5) LR5-60HIH-xxxM, (xxx=435-480 in step of 5) LR5A-54HAH-xxxM, (xxx=425-445 in step of 5) LR5B-60HAH-xxxM, (xxx=425-445 in step of 5) xxx stands for rated output power at STC

LR6-72HV-xxxM, (xxx=335-360 in step of 5)



CERTIFICATE

No. Z2 099333 0045 Rev. 23

Parameters: Fire Safety Class: Class C according to UL790.

Safety Class: Class II
Max. System Voltage: 1500V DC

Test Laboratory: Yangzhou Opto-Electrical Products Testing Institute.

No.10 West Kaifa Road, Yangzhou 225009 Jiangsu, P.R. China.

Construction: Framed, with Junction box, cable and

connector.

Tested IEC 61215-1:2016 IEC 61215-1-1:2016 IEC 61215-2:2016 IEC 61730-1:2016

IEC 61730-1:2016 IEC 61730-2:2016 EN 61215-1:2016 EN 61215-1-1:2016 EN 61215-2:2017 EN IEC 61730-1:2018

EN IEC 61730-1:2018/AC:2018-06

EN IEC 61730-2:2018

EN IEC 61730-2:2018/AC:2018-06



EU Declaration of Conformity

(No. CE-10128435)

We Huawei Technologies Co., Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

declare that the product

Name/Trademark	SOLAR INVERTER/HUAWEI
Model/Software	SUN2000-50KTL-M3 / V800R023
Accessories	NA

complies with the following directives:

- · 2014/53/EU(Radio Equipment Directive)
- · 2011/65/EU & (EU) 2015/863 (RoHS Directive)

For the evaluation of the compliance with these Directives, the following standards have been applied:

Radio Equipment Di	rective
- Article 3.1 (a)	EN 62109-1:2010; EN 62109-2:2011
Safety & Health	EN 50385:2017
- Article 3.1 (b)	EN 55011:2016; EN 55011:2016+A1:2017
EMC	EN 55011:2016+A11:2020
	EN 62920:2017
	ETSI EN 301 489-1 V2.2.3:2019
	ETSI EN 301 489-17 V3.2.4:2020
	EN 61000-3-11:2000
	EN IEC 61000-3-11:2019
	EN 61000-3-12:2011
	EN 61000-6-1:2007; EN IEC 61000-6-1:2019
	EN 61000-6-2:2005 ; EN IEC 61000-6-2:2019
	EN 61000-6-3:2007+A1:2011
	EN 61000-6-4:2007/A1:2011
	EN IEC 61000-6-4:2019
- Article 3.2 Radio	ETSI EN 300 328 V2.2.2
RoHS	EN IEC 63000:2018

This declaration of conformity is issued under the sole responsibility of the manufacturer.				
CE Marking Date:	2022-08-29			
Responsible for makir	ng this declaration is the:			
☑ Manufacturer	☐ Authorised representative established within the EU			
Signed for and on behalf of: Huawei Technologies Co., Ltd.				
Print name/Title	: LingHongDong / Regulation Compliance Manager			
Shenzhen, China (Place)				
(i lace)	(Date) (Signature)			



EU Declaration of Conformity

(No. CE-04397112-02)

We **Huawei Technologies Co., Ltd.**

Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

declare that the product

Name/Trademark: SOLAR INVERTER/HUAWEI

Model : SUN2000-50KTL-M0

SUN2000-60KTL-M0

complies with the following directives:

· 2014/35/EU (Low Voltage Directive)

- · 2014/30/EU (EMC Directive)
- · 2011/65/EU (RoHS Directive)

For the evaluation of the compliance with these Directives, the following standards/implementing regulations have been applied:

Safety	EN 62109-1:2010
	EN 62109-2:2011
EMC	EN 61000-3-12:2011
	EN 61000-3-11:2000
	EN 61000-6-1:2007
	EN 61000-6-2:2005
	EN 61000-6-3:2007+A1:2011*
	EN 61000-6-4:2007+A1:2011*
RoHS	EN 50581: 2012

[&]quot;*"The PLC communication mode or AC 480V power supply mode of Solar Inverter is not apply to this standard.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

CE Marking Date:	2018-10-08		
Responsible for mak	king this declaration is the	e:	
☑ Manufacturer	☐ Authorised representative established within the EU		
Signed for and on be	ehalf of: Huawei Technolo	ogies Co., Ltd.	
Print name/Title	: Ling HongDor	ng / Regulation Compliance Manager	
Shenzhen, China (Place)	Oct.08, 2018 (Date)	(Signature)	

SUN2000-100KTL-M2

Smart PV Controller







10 MPP Trackers



98.8% (@480V) Max. Efficiency



String-level Management



Smart I-V Curve Diagnosis Supported



MBUS Supported



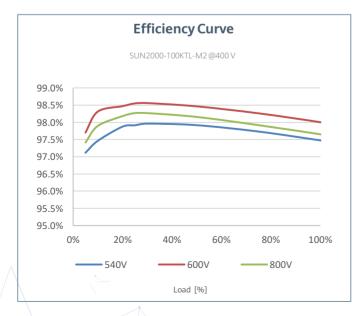
Support AFCI & Smart String Level Disconnector

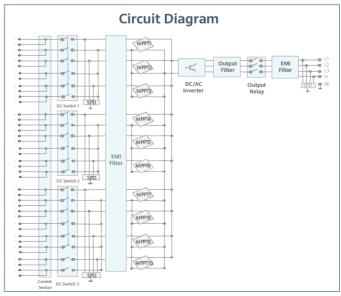


Surge Arresters for DC & AC



IP66 Protection





Technical Specification

Technical Specification

SUN2000-100KTL-M2

eerineat Specification	SONZOOO TOOKTE WZ
	Tff: sion or
	Efficiency
Max. efficiency	98.6% @ 400 V, 98.8% @ 480 V
European efficiency	98.4% @ 400 V, 98.6% @ 480 V
	Input
May Innut Valtage 1	·
Max. Input Voltage 1	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input ³	20 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range ²	200 V ~ 1,000 V
Nominal Input Voltage	600 V @ 400 Vac, 720 V @ 480 Vac
Number of MPP trackers	10
Max. input number per MPP tracker	2
	Outrost
Name in all AC Author Decorate	Output
Nominal AC Active Power	100,000 W
Max. AC Apparent Power	110,000 VA
Max. AC Active Power (cosφ=1)	110,000 W
Nominal Output Voltage	380 V/ 400 V/ 480 V, 3W+(N)+PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	144.4 A @ 400 V, 120.3 A @ 480 V
Max. Output Current	160.4 A @ 400 V, 133.7 A @ 480 V
Adjustable Power Factor Range	0.8 leading 0.8 lagging
Max. Total Harmonic Distortion	< 3%
	Protection
nnut side Dissennestian Davise	
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Arc Fault Protection	Yes
Smart String Level Disconnector	Yes
	Communication
Display	LED indicators; WLAN adaptor + FusionSolar APP
RS485	Yes
JSB	Yes
Smart Dongle-4G	Smart Dongle – 4G / WLAN (Optional)
Monitoring BUS (MBUS)	Yes (isolation transformer required)
Dimensions (MyLLy D)	General Data
Dimensions (W x H x D)	1,035 x 700 x 365 mm
Weight (with mounting plate)	93 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Amphenol Helios H4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless
Nighttime Power Consumption	< 3.5 W
	Chandraid Controlling of Controlling
Certificate	Standard Compliance (more available upon request) EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683
Grid Connection Standards	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11

*1 The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.
*2 Any DC input voltage beyond the operating voltage range may result in inverter improper operating.
*3 Single-string access.

VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11