



Łukasiewicz – IMiF  
 PREDOM Division  
 Krakowiaków 53, 02-255 WARSAW  
 POLAND

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# LICENCE / CERTIFICATE

to use the European Mark

LICENCJA / CERTYFIKAT

na używanie europejskiego Znak



**Licence / Certificate No.**

Licencja / Certyfikat Nr

**0340/ENEC/24**

**Under the conditions given in the following pages of this document, the licence to use the ENEC Mark in conjunction with the suffix 30, as shown above, has been issued to:**

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**Name and address of the Certificate owner:**

Nazwa i adres posiadacza Certyfikatu:

LUG Light Factory Sp. z o.o.

ul. Gorzowska 11; 65-127 Zielona Góra Poland

**For the products:**

Dla wyrobów:

Luminaires for road and street lighting

Oprawy oświetleniowe drogowe i uliczne

**Manufacturing place:**

Miejsce produkcji:

LUG Light Factory Sp. z o.o.

ul. Gorzowska 11; 65-127 Zielona Góra Poland

**Trade name:**

Znak towarowy:

LUG

**Type(s)/Model(s):**

Typ(y), model(e):

Luminaires for road and street lighting

Traffik LED & Traffik R LED - cl I series

(details in the Appendix / Szczegóły w Załączniku)

**Complying with the following European Standards:**

Zgodnymi z następującymi normami europejskimi:

EN 60598-2-3:2003

EN 60598-2-3:2003/ A1:2011

EN 60598-1:2021

EN 60598-1:2021/A11:2022

EN 62262:2002

**Test report(s):**

Raporty z badań:

Ref No: B5-3/244/B/23 + Att No. 1 (EU GD and ND) rep. B5-3/244/B/1/23 dated

11.01.2024; B5-3/246/B/23 dated 10.01.2024 performed by the Testing Laboratory

Łukasiewicz-IMiF PREDOM Division (Accreditation PCA AB 003)

**Date:**

Data:

**2024-01-12**

Manager of Certification Office  
 Kierownik Biura Certyfikacji

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**Additional information – see the Appendix. Dodatkowe informacje – patrz Załącznik.**

<b>Name and address of the license holder:</b>	<b>LUG Light Factory Sp z o.o.</b> ul. Gorzowska 11; 65-127 Zielona Góra - Poland				
<b>Name and address of manufacturer:</b>	<b>LUG Light Factory Sp z o.o.</b> ul. Gorzowska 11; 65-127 Zielona Góra - Poland				
<b>Name and address of manufacturing place:</b>	<b>LUG Light Factory Sp z o.o.</b> ul. Gorzowska 11; 65-127 Zielona Góra - Poland				
<b>Name of product:</b>	<b>Traffik LED &amp; Traffik R LED– cl I series</b>				
<b>Trade mark :</b>	<b>LUG</b>				
<b>Technical data:</b>					
<b>Rated voltage</b>	<b>220-240V</b>				
<b>Rated frequency:</b>	<b>50/60Hz</b>				
<b>Protection against electric shock:</b>	<b>Class I</b>				
<b>Degree of protection:</b>	<b>IP66; IK08</b>				
<b>ta</b>	<b>LED Type</b>	<b>LED quantity</b>	<b>Pmin [W]</b>	<b>Pmax [W]</b>	<b>Ta max[°C]</b>
	Hi-Power	12	4	33	+55
	Hi-Power	24	7	60	+50
	Hi-Power	36	10	78	+50
	Hi-Power	48	14	90	+45
	Mid-Power (3030)	24	4	33	+55
	Mid-Power (3030)	48	7	60	+50
	Mid-Power (3030)	72	10	78	+50
	Mid-Power (3030)	96	14	90	+45
	Mid-Power (5050)	12	4	33	+55
	Mid-Power (5050)	24	7	60	+50
	Mid-Power (5050)	36	10	78	+50
	Mid-Power (5050)	48	14	90	+45

Choice sheet of the luminaires Traffik LED & Traffik R LED– cl I series:

Example of symbol (Marking):

**130292.5LR7B30S320.101.N.P.R**



1 2 3 4 5 6 7 8 9

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Designations used on the marking of luminaries (some designation may not appear in the name) :

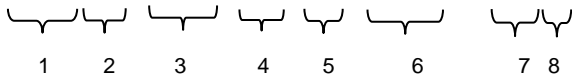
<b>1. 13029</b>	- Code of the series 13029- Traffik LED 13087- Traffik LED - Hi-Power XPG3 13088- Traffik LED - Mid-Power 3030 13089- Traffik LED - Mid-Power 5050
<b>2. 2</b>	- Color: 1: black 2: grey 5: graphite 0: another
<b>3. 5L</b>	- Type of power supply: 2L - DIMM 1-10V 3L - DALI 5L - on-off 6L - on-off / DALI 7L - ZHAGA D4i PL - programmable
<b>4. R7</b>	- CRI: R7 = 70-79 R8 = 80-89
<b>5. B30</b>	- Color temperature ( $\pm 50K$ ): B18 = 1800K B22 = 2200K B27 = 2700K B30 = 3000K B40 = 4000K B57 = 5700K B65 = 6500K
<b>6. S320</b>	- Max. luminous flux (e.g. S320 = 3200lm)
<b>7. 1</b>	- 1 - Safety Class I
<b>8. 01</b>	- Optic: 01 O1 - for road lighting type O1 02 O2 - for road lighting type O2 ... 99 O99 - for road lighting type O99 MKxx - xx 00 ...99 - for investment optic
<b>9. N.P</b>	- Additional equipment A - additional corrosion protection B - Tool-free access to the LED Driver N - NEMA Socket Z - ZHAGA Socket T - NTC Sensor W - Twilight Sensor V - Surge Device Protector 10kV Y - Surge Device Protector 20kV P - Anti pressure vent R - Traffik R LED (Regulate bracket)

**List of components:**

ANNEX 1	TABLE: Critical components information						P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>	
LED Modules	A	LUG	ML21XXXYY.WQQQ.UUV Luxeon 5050 modules (choice sheet below)	Tc -40°C to +85°C	EN62031	ENEC	

**Example of symbol:**

**ML21XXXYY.WQQQ.UUV**

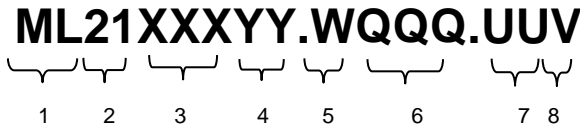


Designations used on the marking of LED boards:

- |               |  |
|---------------|--|
| <b>1. ML</b>  | - PCB designation (ML – LED module)  |
| <b>2. 21</b>  | - Year of the project<br>19, 20, 21  |
| <b>3. XXX</b> | - Number of the project:<br>660, 661, 662, 663, 670, 671, 672, 673, 680, 681, 682, 683, 690, 691,<br>692, 693  |
| <b>4. YY</b>  | - Project variant (PCB design, milling, dimensions, soldermask color,<br>lamine thickness, LED configuration):<br>00...99  |
| <b>5. W</b>   | Light color:<br>W: White   |
| <b>6. QQQ</b> | - CRI and CCT:<br>718: CRI 70 and 1800K<br>722: CRI 70 and 2200K<br>727: CRI 70 and 2700K<br>730: CRI 70 and 3000K<br>735: CRI 70 and 3500K<br>740: CRI 70 and 4000K<br>750: CRI 70 and 5000K<br>757: CRI 70 and 5700K<br>765: CRI 70 and 6500K<br>818: CRI 80 and 1800K<br>822: CRI 80 and 2200K<br>827: CRI 80 and 2700K<br>830: CRI 80 and 3000K<br>835: CRI 80 and 3500K<br>840: CRI 80 and 4000K<br>850: CRI 80 and 5000K<br>857: CRI 80 and 5700K<br>865: CRI 80 and 6500K |
| <b>7. UU</b>  | - Assembly variant (selected components not mounted):<br>01...99   |
| <b>8. V</b>   | - NTC Thermistor type:<br>A - none<br>B – 10K<br>C – 47K   |

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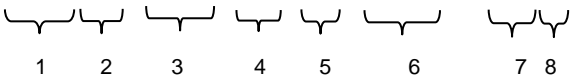
LED Modules	A	LUG	ML21XXXYY.WQQQ.UUV Cree XPG3 modules (choice sheet below)	T <sub>c</sub> -40°C to +85°C	EN62031	ENEC
<b>Example of symbol:</b>						
						
Designations used on the marking of LED boards:						
<b>1. ML</b>				- PCB designation (ML – LED module)		
<b>2. 21</b>				- Year of the project 12, 13, 14, 15, 16, 17, 18, 19, 20, 21		
<b>3. XXX</b>				- Number of the project: 600, 601, 610, 611, 001, 002, 003, 004, 005, 008, 009, 010, 013, 014, 017, 020, 023, 024, 182, 193, 271, 272, 273, 281, 506, 513		
<b>4. YY</b>				- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99		
<b>5. W</b>				Light color: W: White		
<b>6. QQQ</b>				- CRI and CCT: 718: CRI 70 and 1800K 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 818: CRI 80 and 1800K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K		
<b>7. UU</b>				- Assembly variant (selected components not mounted): 01...99		
<b>8. V</b>				- NTC Thermistor type: A - none B – 10K C – 47K		

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LED Modules	A	LUG	ML21XXXYY.WQQQ.UUV Duris S8 modules (choice sheet below)	T <sub>c</sub> -40°C to +85°C	EN62031	ENEC
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**Example of symbol:**

**ML21XXXYY.WQQQ.UUV**

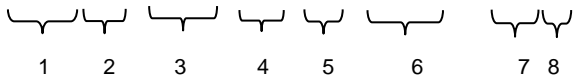


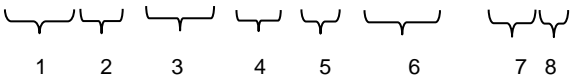
Designations used on the marking of LED boards:

<b>1. ML</b>	- PCB designation (ML – LED module)
<b>2. 21</b>	- Year of the project 19, 20, 21
<b>3. XXX</b>	- Number of the project: 241, 510
<b>4. YY</b>	- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99
<b>5. W</b>	Light color: W: White
<b>6. QQQ</b>	- CRI and CCT: 718: CRI 70 and 1800K 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 818: CRI 80 and 1800K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K
<b>7. UU</b>	- Assembly variant (selected components not mounted): 01...99
<b>8. V</b>	- NTC Thermistor type: A - none B – 10K C – 47K

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LED Modules	A	LUG	ML21XXXYY.WQQQ.UUV Luxeon 3030 modules (choice sheet below)	T <sub>c</sub> -40°C to +85°C	EN62031	ENEC
<b>Example of symbol:</b>						
<p><b>ML21XXXYY.WQQQ.UUV</b></p> 						
Designations used on the marking of LED boards:						
<b>1. ML</b>				- PCB designation (ML – LED module)		
<b>2. 21</b>				- Year of the project 18, 19, 20, 21		
<b>3. XXX</b>				- Number of the project: Luxeon 3030 – 222, 320		
<b>4. YY</b>				- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99		
<b>5. W</b>				Light color: W: White		
<b>6. QQQ</b>				- CRI and CCT: 718: CRI 70 and 1800K 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 818: CRI 80 and 1800K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K		
<b>7. UU</b>				- Assembly variant (selected components not mounted): 01...99		
<b>8. V</b>				- NTC Thermistor type: A - none B – 10K C – 47K		

LED Modules	A	LUG	ML21XXXYY.WQQQ.UUV Cree XTE modules (choice sheet below)	Tc -40°C to +85°C	EN62031	ENEC
<b>Example of symbol:</b>						
<p><b>ML21XXXYY.WQQQ.UUV</b></p> 						
Designations used on the marking of LED boards:						
<b>1. ML</b>				- PCB designation (ML – LED module)		
<b>2. 21</b>				- Year of the project 14, 15		
<b>3. XXX</b>				- Number of the project: 003, 010		
<b>4. YY</b>				- Project variant (PCB design, milling, dimensions, soldermask color, laminate thickness, LED configuration): 00...99		
<b>5. W</b>				Light color: W: White		
<b>6. QQQ</b>				- CRI and CCT: 718: CRI 70 and 1800K 722: CRI 70 and 2200K 727: CRI 70 and 2700K 730: CRI 70 and 3000K 735: CRI 70 and 3500K 740: CRI 70 and 4000K 750: CRI 70 and 5000K 757: CRI 70 and 5700K 765: CRI 70 and 6500K 818: CRI 80 and 1800K 822: CRI 80 and 2200K 827: CRI 80 and 2700K 830: CRI 80 and 3000K 835: CRI 80 and 3500K 840: CRI 80 and 4000K 850: CRI 80 and 5000K 857: CRI 80 and 5700K 865: CRI 80 and 6500K		
<b>7. UU</b>				- Assembly variant (selected components not mounted): 01...99		
<b>8. V</b>				- NTC Thermistor type: A - none B – 10K C – 47K		



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Control gear	A	OSRAM	OT100W/UNV/800C/2DIMLT2/P6	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=90°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 110/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=85°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170-240/1A0 1DIM LT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C,  tc max=75°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 75/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=80°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 40/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=80°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 75/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=85°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT DX 110/220...240/1A0 DIMA LT2 E	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=85°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C,  tc max=75°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 40/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C,  tc max=80°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 75/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=85°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 110/170...240/1A0 4DIMLT2 G2 CE	220..240V, 50-60Hz, ta= -40...+60°C,  tc max=75°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 20/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+55°C,  tc max=85°C	EN 61347-1  EN 61347-2-13	ENEC
Control gear	A	OSRAM	OT 40/170...240/1A0 1DIMLT2 G1 CE	220..240V, 50-60Hz, ta= -40...+60°C,  tc max=80°C	EN 61347-1  EN 61347-2-13	ENEC

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Control gear	A	OSRAM	OT 40/120...277/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 60/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+60°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 90/170...240/1A0 4DIMLT2 E	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 50/120...277/800 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 50/120...277/1A2 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/120...277/800 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 110/120...277/1A4 2DIMLT2 P6	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 60/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/220...240/1A4 1DIMA P7	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 75/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/UNV/1A0 2DIM P7	120..277V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	OSRAM	OT 100/ 220-240/1A4 2DIM P7	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	

LED Driver	A	OSRAM	IT DALI 20/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =75 °C	Acc. to EN 61347-1/Acc. to EN 61347-2- 13/Acc. to EN	CE / CCC / EAC / RCM / VDE / VDE-EMC / UKCA /
					55015/Acc. to EN 61547/Acc. to EN 61000-3- 2/Acc. to  EN 62384/Acc. to EN 62386	DALI-2 / ENEC
LED Driver	A	OSRAM	IT DALI 40/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	VDE, ENEC10
LED Driver	A	OSRAM	IT DALI 75/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =100 °C	EN 61347-2-13	VDE, ENEC10
LED Driver	A	OSRAM	IT DALI 110/220...240/1A0 E	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =90 °C	EN 61347-2-13, EN 61347-1	VDE, ENEC10
LED Driver	A	OSRAM	IT DALI 150/220...240/1A0 E	220...240, 50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	Acc. to EN 61347-1/Acc. to EN 61347-2- 13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3- 2/Acc. to EN 62384/Acc. to EN 62386	CCC / CE / RCM / EAC / UKCA / DALI-2 / VDE / VDE- EMC / ENEC
LED Driver	A	OSRAM	IT DALI 200/220...240/1A0 E	220...240, 50/60Hz, Ta =-40...+60 °C, Tc max =75 °C	Acc. to EN 61347-1/Acc. to EN 61347-2- 13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3- 2/Acc. to EN 62384/Acc. to EN 62386	CCC / CE / RCM / EAC / UKCA / DALI-2 / VDE / VDE- EMC / ENEC
LED Driver	A	Osram	OT 75 /220...240/1A0 1DIM G2 CE	220...240V, 50/60Hz, Ta =-40...+55 °C,  Tc max =85 °C	EN 61347-2-13, EN 61347-1	CE / ENEC / VDE / VDE-EMC / CCC / EAC  ENEC 10 VDE

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Control Gear	A	OSRAM	OT 50/120...277/700 P5	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	CB by Dekra
Control Gear	A	OSRAM	OT 100/120...277/700 P5	120..277V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	CB by Dekra
Control Gear	A	OSRAM	OT 100/220...240/4A2 P5	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	CB certyfikat
Control Gear	A	OSRAM	OT 20/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 40/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 40/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 75/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 75/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 75/170...240/1A5 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 110/170...240/0A7 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT 110/170...240/1A0 4DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT DX 40/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT DX 75/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control Gear	A	OSRAM	OT DX 110/170...240/1A0 DIMA NFC G2	170..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
LED Driver	A	OSRAM	IT DALI 20/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+70°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 40/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC

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LED Driver	A	OSRAM	IT DALI 75/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+65°C, tc max=80°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 110/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 150/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
LED Driver	A	OSRAM	IT DALI 200/120...240/1A0 P7	120..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	B	OSRAM	OT 20/170...240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 40/170-240/0A7 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 40/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 75/170-240/1A0 1DIM NFC G3 CE	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	B	OSRAM	OT 110/170-240/0A7 1DIM NFC G3	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE

Control gear	B	OSRAM	OT 110/170-240/1A0 1DIM NFC G3	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC 10 VDE
Control gear	A	Inventronics	EBS-025S045BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-025S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-025S105BT2	171..275V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S045BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1, EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-040S105BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-080S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-1	ENEC
Control gear	A	Inventronics	EBS-080S105BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-080S150BT2	176..305V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-120S070BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-120S105BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EBS-120S150BT2	176..305V, 50-60Hz, ta= -40...+75°C,	EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM-075S	90..305V, 50-60Hz, ta= -40...+80°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM – 100S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC
Control gear	A	Inventronics	EUM – 150S	100..277V, 50-60Hz, ta= -40...+75°C, tc max=90°C	EN 61347-1 EN 61347-2-13	ENEC

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Control gear	A	Inventronics	EUM – 200S	100..277V, 50-60Hz, ta= -40...+75°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Inventronics	EUM – 240S	100..277V, 50-60Hz, ta= -40...+75°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 40W 0.7A Prog+ GL-J sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.35-0.70A GL Prog+ sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.1-1.05A Prog GL F sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 100W 0.7A Prog+ GL-Z sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 12W 0.1-0.5A S 230V C100	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 22W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 40W 0.2-0.7A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi BP 40W 0.3-1.0A S 230V C123	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2-0.7A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	

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Control gear	A	Philips	Xi LP 40W 0.3-1.0A S1 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.5-1.5A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 110W 0.2-0.7A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 110W 0.3-1.0A S1 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.2-0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 22W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2 -0.7A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2-0.7A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.3-1.0A S1 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.3-1.0A SL 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 40W 0.2-0.7A SN 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENECE
				tc max=80°C	EN 61347-2-13	



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Control gear	A	Philips	Xi LP 75W 0.2-0.7A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.2-0.7A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.3-1.0A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.3-1.0A SL 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.2-0.7A SN 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 75W 0.5-1.5A S1 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.2-0.7A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V C123 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 70W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	

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Control gear	A	Philips	Xi FP 75W 0.5-1.5A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 100W 0.2-0.7A SNLDAE 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 110W 0.2-0.7A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 110W 0.3-1.0A NLD C150 230V sXt	220..240V, 50-60Hz, ta= -30...+60°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 110W 0.3-1.0A SNLDAE 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.2-0.7A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 22W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.2-7.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 40W 0.3-1.0A SNLDAE 230V S175 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.2-0.7A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi FP 75W 0.3-1.0A SNLDAE 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 12W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 22W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	

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Control gear	A	Philips	Xi SR 40W 0.2-0.7A SNEMP 230V C133 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 75W 0.2-0.7A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 110W 0.2-0.7A SNEMP 230V C150 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xi SR 150W 0.2-0.7A SNEMP 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 100W 2.1-4.2A AOC 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 150W 2.5-4.9A AOC 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 100W 0.3-1.05A S1 230V I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xi LP 150W 0.3-1.05A S1 230V I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 35W 0.7A 1-10V TWE I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 100W 0.7A 1-10V TWE I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 150W 0.7A 1-10V TWE I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.7A TWE I175	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	

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Control gear	A	Philips	Xitanium 150W 0.7A TWE I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 1.05A 1-10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 75W 0.70A 1-10V 230V C165 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium Dim 75W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
Control gear	A	Philips	Xitanium Dim 150W 0.70A 1-10V 230V I220	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
Control gear	A	Philips	Xitanium 75W 1-10V 230V C165	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Philips	Xitanium 150W 1.05A 1-10V 230V S240 sXt	220..240V, 50-60Hz, ta= -40...+55°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 120W 300-1050mA	220..240V, 50-60Hz, ta= -30...+55°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 75W 250-750mA one	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 120W 350-1050mA o	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	Tridonic LCA 160W 350-1050mA o	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 14/100-500/38 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 24/200-1050/39 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 40/200-1050/64 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	

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Control gear	A	Tridonic	LCO 60/200-1050/100 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 90/200-1050/165 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 135/200-1050/220 NF C ADV3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 14/100-500/38 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 24/200-1050/39 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 40/200-1050/64 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=90°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 60/200-1050/100 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=95°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 90/200-1050/165 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 135/200-1050/220 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 200/200-1050/355 o4a NF C EXC3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=100°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 100/1050/95 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 100/1400/71 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 100/500/200 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	

Control gear	A	Tridonic	LCO 100/700/143 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/1050/142 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/1400/107 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/500/300 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 150/700/214 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/1050/72 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/1400/53 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/500/150 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 75/700/108 fixC L SNC2	220..240V, 50-60Hz, ta= -40...+65°C,	EN 61347-1	ENEC
				tc max=80°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 14W 100–550mA 38V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=95°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 24W 200–1050mA 39V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control Gear	A	Tridonic	LCO 40W 200–1050mA 64V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+65°C, tc max=95°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Tridonic	LCO 60W 200–1050mA 100V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+65°C, tc max=95°C	EN 61347-1, EN 61347-2-13	ENEC

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Control gear	A	Tridonic	LCO 90W 200–1050mA 165V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=95°C	EN 61347-2-13	
Control gear	A	Tridonic	LCO 135W 200–1050mA 220V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+70°C,	EN 61347-1	ENEC
				tc max=85°C	EN 61347-2-13	
Control Gear	A	Tridonic	LCO 165W 200–1050mA 285V pD+ NFC C PRE3	220..240V, 50-60Hz, ta= -40...+65°C, tc max=95°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Tridonic	LCO 165W 200–1050mA 285V one4all NFC C EXC3	220..240V, 50-60Hz, ta= -40...+70°C, tc max=100°C	EN 61347-1, EN 61347-2-13	ENEC
LED Driver	A	LACROIX	DL-PAK 70	220...240 50/60Hz, Ta =-25...+60 °C, Tc max =90 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-040105GLA	220...240 V/50/60Hz, Ta =-40...+60 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-075105GLA	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-130105GLA	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	DELTA	EUCI-170105GLA	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max =90 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	Delta	EUCI-022105GLB	220...240V, 50/60Hz, Ta =-40...+55 °C,  Tc max =85 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	Delta	EUCI-040105GLB	198...264V, 50/60Hz, Ta =-40...+55 °C,  Tc max =90 °C	EN 61347-2-13, EN 61347-1	ENEC
LED Driver	A	Delta	EUCI-075105GLB	220...240 V/50/60Hz, Ta =-40...+55 °C, Tc max = 85 °C	EN 61347-2-13, EN 61347-1	ENEC

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Control Gear	A	Delta	EUCI 040105GIA	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Delta	EUCO 150140GA	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Delta	EUCO 200140GA	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-50VP-72BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-75VP-108BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-100VP-143BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-150VP-215BH	100..277V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-22PA- 32B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-40PA-54B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-75PA-108B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-110PA-160B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-165PA-235B	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-40PA-57F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-75PA-178F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-110PA-160F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC
Control Gear	A	SOSEN	SS-165PA-236F	220..240V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1 EN 61347-2-13	ENEC



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Control Gear	A	Pelsan	316646 150W	220..240V, 50-60Hz, ta= -40...+90C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moon	MU240HxxxAQ_DALI2 Series	220..240V, 50-60Hz, ta= -40...+50C, tc max=90C	EN 61347-1, EN 61347-2-13	UL
Control Gear	A	ELDO LED	OT50W/UNV/800C/2DIMLT2/P6	120..277V, 50-60Hz, ta= -40...+60C, tc max=90C	EN 61347-1, EN 61347-2-13	UL
Control Gear	A	Moso	U6-040D057	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U6-080D115	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U6-120D172	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-026D038	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-040D057	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-060D086	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-080D115	220..240V, 50-60Hz, ta= -40...+55C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	U7-120D172	220..240V, 50-60Hz, ta= -40...+50C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	LUP 120	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	LUP 150	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Moso	LUP 200	220..240V, 50-60Hz, ta= -40...+60°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-040	176..264V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-075	176..264V, 50-60Hz, ta= -40...+90C, tc max=90C	EN 61347-1, EN 61347-2-13	ENEC

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Control Gear	A	uPowerTek	APD-110	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-165	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	APD-200	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-060	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-075	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-096	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	uPowerTek	BLD-120	176..264V, 50-60Hz, ta= -40...+900C, tc max=900C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 75W/200-1050 AD	220..240V, 50-60Hz, ta= -40...+550C, tc max=850C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 20W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 40W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 75W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 110W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 165W/200-1050 1PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 20W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=75°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 40W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+60°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 75W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC

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Control Gear	A	TCI	MILANOinLED 110W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	MILANOinLED 165W/200-1050 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	VEGA 75/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	VEGA 105/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	VEGA 150/530-1050 FPD IP67	220..240V, 50-60Hz, ta= -40...+60°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 22W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 40W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 75W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 110W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 165W 200-700 1-10V	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 22W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 40W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 75W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=80°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 110W 200-700 4PN	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 22W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 40W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC

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Control Gear	A	TCI	SIRIO SQ 75W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 110W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	TCI	SIRIO SQ 165W 200-700 AD	220..240V, 50-60Hz, ta= -40...+55°C, tc max=90°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.639	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.640	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PrimeLine ECXd1050.659	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.641	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Control Gear	A	Vossloh schwabe	PRIMELINE ECXd 1050.642	220..240V, 50-60Hz, ta= -40...+55°C, tc max=85°C	EN 61347-1, EN 61347-2-13	ENEC
Wires LED	B	Mrowiec	H05V-K	500 V; 1 mm <sup>2</sup>	IEC227	SEP-BBJ
Internal wires	B	Mrowiec	H05V-K	500 V; 0,5 mm <sup>2</sup>	IEC227	SEP-BBJ
Wires	B	Mrowiec	H05VV-F	2X1,5mm <sup>2</sup>	IEC227	SEP-BBJ
Connector	B	LONGJOIN	JL-700	1.5A, 30V	EN5015:2013+ A1:2015, EN61547:2009, EN 61000-3- 2:2014, EN 61000-3- 3:2013, EN 61984:2009	Dekra
Connector system	B	BJB	47.121.-303.93, 47.121.-305.80, 47.121.-702.14, 47.121.-705.84, 47.121.U301.80, 47.121.U303.80, 47.121.U304.80, 47.921.-801.68, 47.921.- 802.68, 47.921.U801.81	2A, 24V DC, ta= -40°C to 100°C	EN 61984	VDE
Connector	B	BJB	46.412	16A; 450 V	DIN EN 60998- 1 (VDE 0613 Teil 1):2005-03; EN 60998- 1:2004; DIN EN 60998-2-2 (VDE 0613 Teil 2- 2):2005-03; EN 60998-2-2:2004	VDE UL
Connector	B	BJB	46.413	16A; 450 V	EN 60998-2-2	VDE UL
Connector	B	BJB	46.414	16A; 450 V	EN 60998-2-2	VDE UL
Connector	B	BJB	46.415	16A; 450 V	EN 60998-2-2	VDE UL

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Connector	B	BJB	46.455	16A; 450 V	EN 60998-2-2	VDE UL
Connector	B	TE Connectivity	2834049 2834048 2834055 2834054	9A; 600 V	EN 61984	TUV
Connector	A	Greenway Electronics Co Ltd	M684	16A; 450 V	EN 61984, EN 60988-1,	ENEC
Luminaire protection	B	Linoya Electronic Technology	LYSPD10D	300Vac, 50Hz, IP67	EN 61643- 11:2012+A11	TUV
Luminaire protection	B	Vossloh schwabe	SP / 230 / 10K	220-240V, 50/60Hz, Ta = -30°C do 80°C	EN 60598-2-3 EN 61643-11	VDE
Luminaire protection	B	Vossloh schwabe	SP3 / 230 / 10K / i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Luminaire protection	B	Vossloh schwabe	SPC 3 / 230 / 10K / i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Luminaire protection	B	Vossloh schwabe	SPC 3 / 230 / 10K / i-IP66	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 60598-2-3 EN 61643-11	DEKRA
Fixed resistor	B	Uniroyal Electronics	MGR series	100k Ohm to 100 MOhm (+5%), 2W, 2,5kV	DIN EN IEC 62368-1 (VDE 0868-1):2021- 05 Anhang/Annex G.10; EN IEC 62368- 1:2020+A11:20 20 Anhang/Annex G.10 IEC 62368-1:2018, Anhang/Annex G.10	VDE
Connector	B	Jiang Men Krealux Electrical	P02-M	17,5A; 450 V	EN 60988-1 EN 60998-2-2	VDE
Connector	A	Openwise	925	16A; 450 V	EN 60988-1 EN 60998-2-2	ENEC
Connector	A	Openwise	928	32A; 450 V	EN 60988-1 EN 60998-2-2	ENEC
Connector system	B	LONGJOIN Nema	JL-240	t= -40...+70°C, 480VAC, 50/60Hz, Signal Contacts: 30VDC, 0,25A	EN 61984	DEKRA
Connector system	B	Tridonic	SPD 10kV CE SNC	100-277V, 50/60Hz, Ta = -40°C do 80°C	EN 61643-11	KEMA KEUR
Luminaire protection	B	Vossloh schwabe	SPC 230/10K/i	100-277V, 50/60Hz, Ta = -35°C do 80°C	EN 61643-11	DEKRA
Luminaire protection	B	Inventronics	PU-20KX10KTXX	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Inventronics	PU-20Kx10KBx	320Vac, 15A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Inventronics	PU-10Kx05KBx	320Vac, 8A, 47-63Hz, Ta = -40°C do 85°C	EN 61643-11 EN 61643-21	VDE
Luminaire protection	B	Linoya Electronic Technology	LYSPD10D	300Vac, 50Hz, IP67	EN 61643-11	TUV
Luminaire protection	B	ESB	ESB-6K	220-240V, 50/60Hz, Ta = -30°C do 80°C	EN 61643-11	VDE
Fuse holder	B	Mersen	CCR101N	400-500 VAC, 25-32 A	IEC60947-3 IEC60269-2 IEC60269-3	NF

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Luminaire protection	B	RuiLongYuan	TP10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Greenway	GSPD 1	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Greenway	GSPD 3	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	LINOYA	LYSPD10A	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	UL
Luminaire protection	B	ZP Lightning	ZP-LSP10-PL	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	UL
Luminaire protection	B	ZP Lightning	ZP-LED-P10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LED-S10D	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-PR	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-PY/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-SR	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	ZP Lightning	ZP-LSP10-SY/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Zhongyuan Technology	ZYS-P10WD, ZYS-P20WD	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV
Luminaire protection	B	Zhongyuan Technology	ZYS-P10SD, ZYS-P20SD, ZYS-P10SD/II, ZYS-P20SD/II	100-277V, 50/60Hz, Ta = -40°C do 85°C	EN 61643-11 IEC 61643-11	TUV

Supplementary information:

<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

- A - The component is replaceable with another one, also certified, with equivalent characteristics
- B - The component is replaceable if authorised by the test house
- C - Integrated component tested together with the appliance
- D - Alternative component

**Date:** *Data:* **2024-01-12**      **Signature:**

Manager of Certification Office  
*Kierownik Biura Certyfikacji*