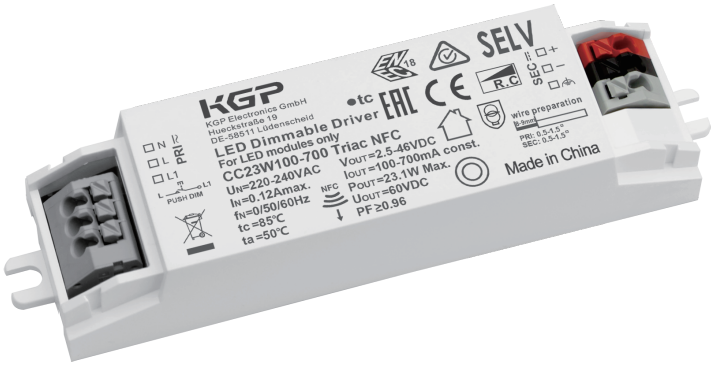
KGP

CC23W100-700 Triac NFC

Constant Current Driver

Model:CC23W100-700 Triac NFC



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC23W100-700 Triac NFC	100-700mA	0.12A	26.3W	0.38-23.10W	0.96	85%	2.5-46Vdc	60Vdc

*** Test result @230V, 50Hz, Full Load**

1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	2-in-1 Dimming (Push DIM / Triac)
	Dimming Range	1%-100%
	IP Grade	IP20
	Insulation Class	Class II (compatible Class I)
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	180-280VDC
	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.12A
	Input Power	≤ 26.3W
	Power Factor	≥0.96 (230VAC，full load)
	THD	≤10% (230VAC，full load)
	Standby Power Consumption	≤0.5W (230VAC，DIM to off)
	Inrush Current	≤8.5A/16us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	23pcs/type A ; 37pcs/type B ; 59pcs/type C 37pcs/type A; 59pcs/type B ; 94pcs/type C 46pcs/type A; 74pcs/type B ; 118pcs/type C

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Output	Output Voltage Range	2.5-46VDC@100-500mA, 2.5-42VDC@550mA, 2.5-38VDC@600mA, 2.5-35VDC@650mA 2.5-33VDC@700mA
	No Load Voltage (Uout)	60VDC Max.
	Output Current	100-700mA(by NFC setting ,Factory set current of 100mA)
	Max. Output Power	23.1W
	Efficiency	≥85%　　230VAC，full load@max current
	Output LF current ripple (< 120 Hz)	±3%　　(Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	PstLM	≤1
	SVM	≤0.4
	Starting Delay Time	≤0.5S　　(230VAC，DIM to off)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	I/P to O/P , 3.0KVac/5mA/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	700μA, I/P to O/P @230V input
Environment	Ta/Operation Temperature	-20….+50℃
	Ts/Storage Temperature	-40….+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Installation	Build-in
	Dimension	103.4*30*21mm (L*W*H)
Standards	Certification	CE/ENEC/SAA/EAC
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017; EN62384:2006/A1:2009; AS 61347.2.13:2018; AS/NZS61347.1:2016; IEC 61347-1:2015+A1:2017; IEC 61347-2-13:2014+A1:2016
	EMC Standards	AS/NZS CISPR 15:2011; AS CISPR 15:2017 ; BS EN IEC 55015:2019+A11:2020; EN 61547:2009; BS EN IEC 61000-3-2:2019; BS EN 61000-3-3:2013+A1:2019
	Performance	EN 62384
	Surge	L-N/ 1KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h　Tc=85℃
		75000h　Tc=80℃
		100000h　Tc=75℃
	Warranty	5years，　F.R. < 10000ppm
	Noise	15cm ＜28dB

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Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.
2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

2. Wiring Diagram

Manufacturer	Model	Q'ty of parallel connection
ABB	6519 U	13
ABB	6526 U	12
JUNG	1224 LED UDE	12
Berker	2861	12
JUNG	254 UDIE 1	13
JUNG	225 TDE	12
EGANT	U321V2	12
Schneider	SBD200LED	12
Schneider	SBD315RC	14
Merten	SBD200LED	12
Berker	2874	12
Eltako	EUD61NPL-230V	10
Eltako	EUD12NPN-UC	10
Eltako	EUD12D-UC	10
Eltako	EUD61NP-230V	10
Eltako	DTD55-230V-wg	10
Eltako	DTD55L-230V-wg	10
GIRA	Universal-LED-Dimmer Mini2440 00	9
EHMANN	LED-Dimmer T46.08	10
JUNG	Drehdlmmer Unlversal LED1731DD	10

Leading Edge Dimmer list only on request -/ or confirmed by KGP Electronics

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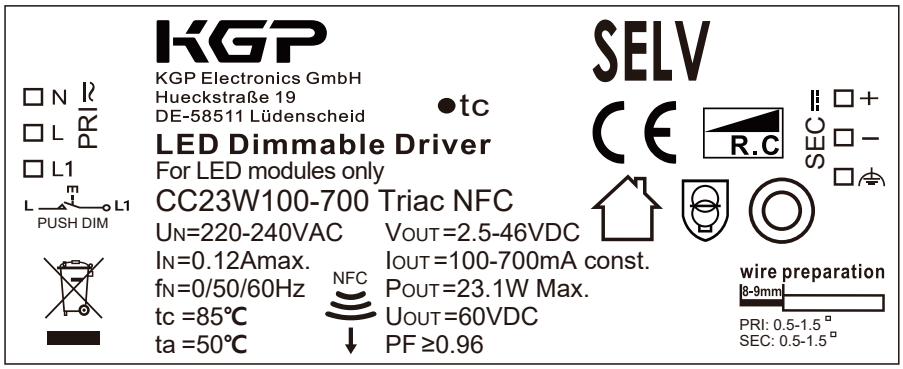
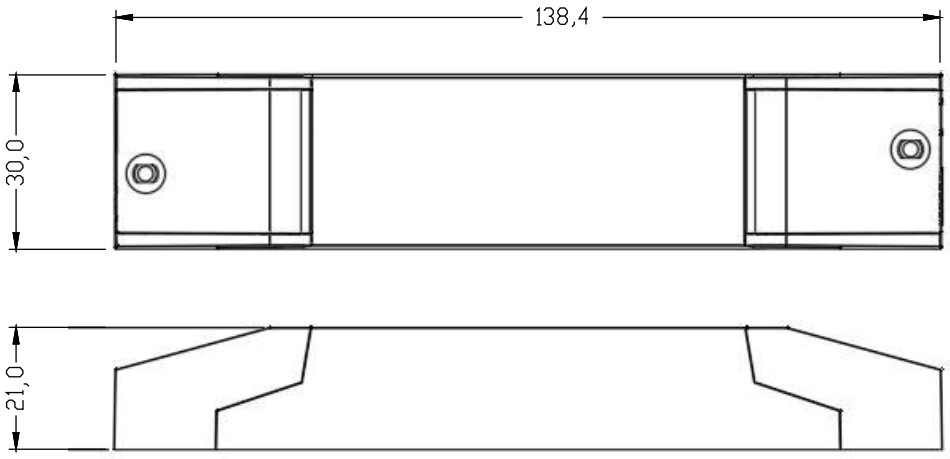
3. Label



4. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		75	98	120	150	188	@230VAC	8	400us
TYPE C		120	156	192	240	300			
TYPE D		192	250	307	384	480			

5. Dimension （Unit：mm）



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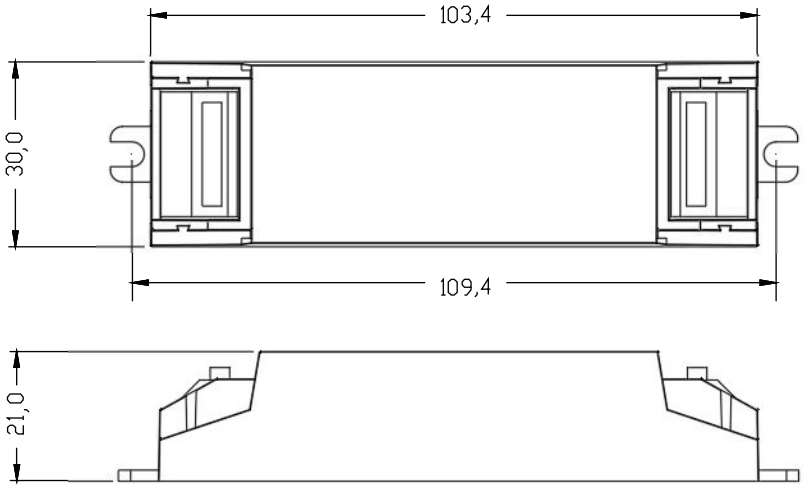
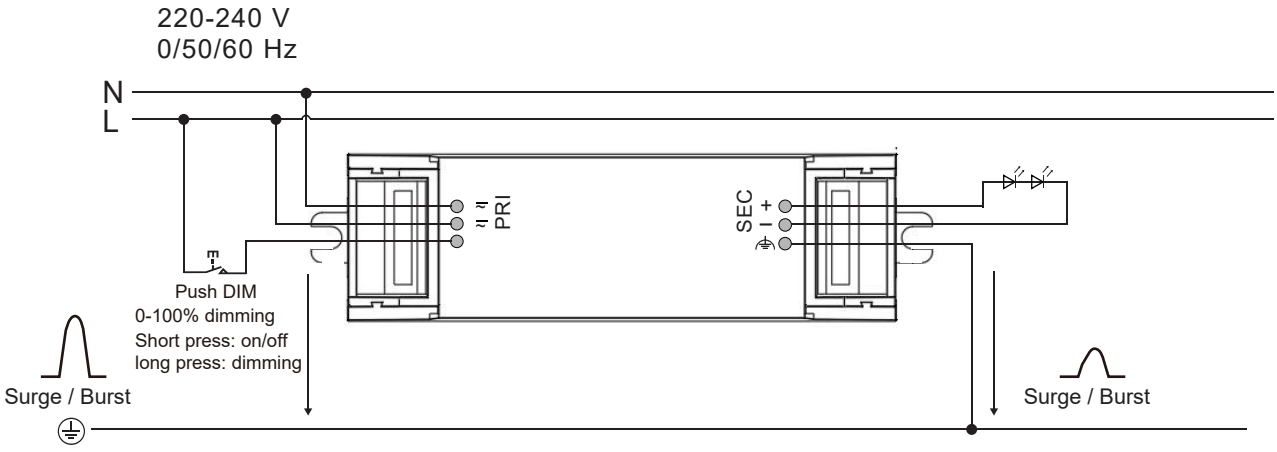
Built in type:

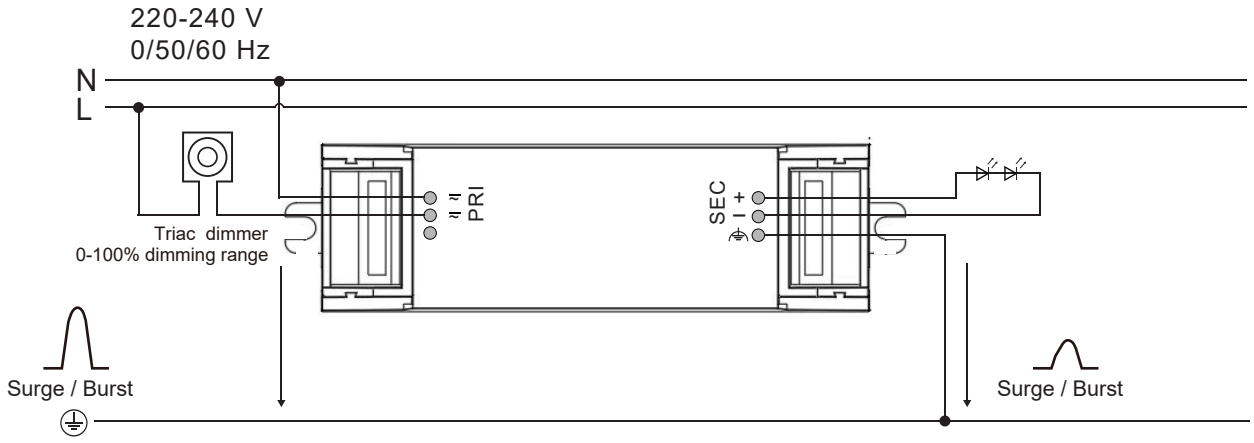


6. Wiring Diagram

Push DIM Connection:



Triac Connection:



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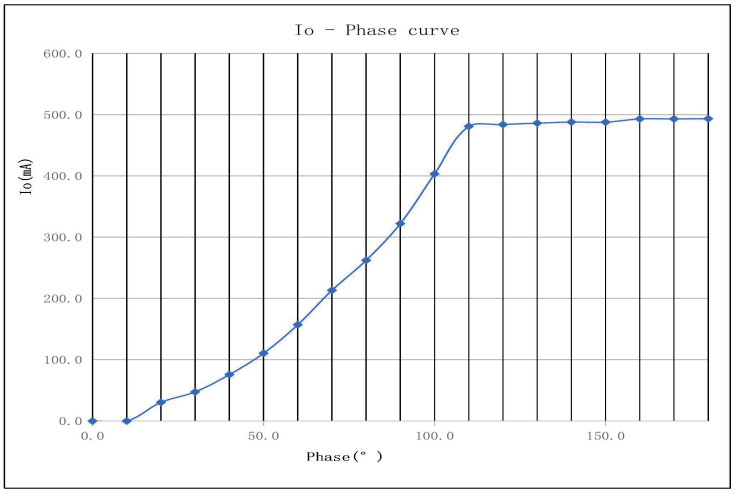
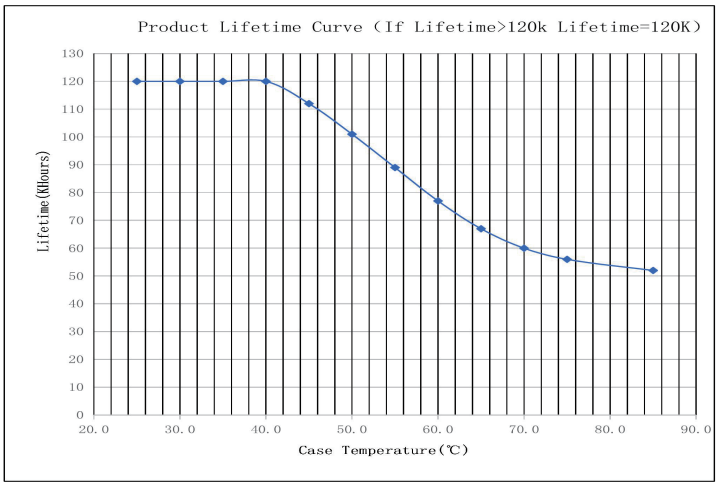
7. Dimming curve



8. Lifetime curve



9. Packing information

Built in type

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

Small side cover

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
T.B.D	T.B.D	T.B.D	T.B.D	T.B.D

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10. Function of the earth terminal:

The earth connection is conducted as protection earth (PE). The LED Driver can be earthed via earth terminal or metal housing
(if device has metal housing). If the LED Driver will be earthed, protection earth (PE) has to be used. There is no earth connection required for the functionality of the LED Driver. Earth connection is recommended to improve following behaviour.

- Electromagnetic interferences (EMI)
- LED glowing at standby

In general, it is recommended to earth the LED Driver if the LED module is mounted on earthed luminaire parts respectively heat sinks and thereby representing a high capacity against earth.

Avoiding residual LED glow on standby

Residual LED glow on standby may occur as a result of capacitive leakage currents from the LED module onto earthed luminaire parts (such as the heat sink). This mainly affects high-efficiency LED systems with large surface areas installed in luminaires with protection class 1.

The topology has been improved so that residual LED glow can be virtually eliminated by earthing the devices.

11. Wiring instructions

• All connections must be kept as short as possible to ensure good EMI behaviour

• Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)

• Advice the maximum length of output wires is 3 m

• Secondary switching is not permitted（Except for constant voltage）

• Incorrect wiring can damage LED modules.

• The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)

12. REVISION HISTORY

Date	Revision	Remark
2023.--.--	V0.01	- - - - - -

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