



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC23W150-700 Triac NFC	150-700mA	0.13A	27.5W	3.75 - 23.10W	0.96	77%	25-42Vdc	55Vdc

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

1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Current
	Dimming Type	Triac
	Dimming Range	10%-100%
	Output current setting	Near field communication (NFC)
	Output Features	Isolation
	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	50/60Hz, Range:47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.13A
	Input Power	≤27.5W
	Power Factor	≥0.96 (230VAC, full load)
	THD	≤10% (230VAC, full load)
	Standby Power Consumption	≤0.5W (230VAC, DIM to off)
	Inrush Current	≤7.9A/16us (230VAC, full load)
	Connected quantity of 10A Breaker	24pcs/type A ; 39pcs/type B ; 63pcs/type C
Connected quantity of 13A Breaker	32pcs/type A; 51pcs/type B ; 82pcs/type C	
Connected quantity of 16A Breaker	39pcs/type A; 63pcs/type B ; 101pcs/type C	
Connected quantity of 20A Breaker	49pcs/type A; 79pcs/type B ; 126pcs/type C	

Output	Output Voltage Range	42VDC@150-200mA, 40-42VDC@250mA, 38-42VDC@300-350mA, 30-42VDC@400mA, 27-42VDC@450mA, 25-42VDC@500-550mA, 25-38VDC@600mA, 25-35VDC@650mA, 25-33VDC@700mA
	No Load Voltage (Uout)	55VDC Max.
	Output Current	150-700mA(by NFC setting ,Factory set current of 150mA)
	Max. Output Power	23.1W
	Efficiency	≥77% 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....+40°C
	Ts/Storage Temperature	-40....+90°C
	Tc/Enclosure Temperature	90°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Installation	Built -in / Independent
	PRI Wire preparation	0.5-1.5 [□] / 8-9mm
	SEC Wire preparation	0.5-1.5 [□] / 8-9mm
	Dimension	103.4*30*21mm (L*W*H)
Standards	Certification	CE
	Safety Standards	EN61347-1:2015/A1:2021; EN61347-2-13:2014/A1:2017;
	Performance	EN 62384
	Surge	L-N/ 1KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h Tc=90°C
		75000h Tc=85°C
		100000h Tc=80°C
	Warranty	5years , F.R. < 10000ppm
Noise	15cm <28dB	

Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C 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.

Distance	15m	30m	50m
Cable selection	0.5mm ²	0.75mm ²	1.0mm ²

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
Eltako	EUD61NPN-UC	10
GIRA	Universal-LED-Dimmer Mini2440 00	9
EHMANN	LED-Dimmer T46.08	10
JUNG	Drehldimmer Unversal LED1731DD	10
niko	330-00700	10
niko	310-0390X	10
Bticino	L-N-NT4411N	10
TECNEL	TE44895BT	10
TECNEL	TE7636	10
VIMAR	20135.1	10
	C-300 RLC	10

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

3. Label

KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

LED Dimmable Driver
For LED modules only
CC23W150-700 Triac NFC

UN=220-240VAC VOUT=25-42VDC
IN=0.13Amax. IOUT=150-700mA const.
fn=50/60Hz POUT=23.1W Max.
tc=90°C UOUT=55VDC
ta=40°C PF≥0.96

wire preparation 8-9mm
PRI: 0.5-1.5"
SEC: 0.5-1.5"

tc

CE R.C. SELV NFC

SEC + -

tc

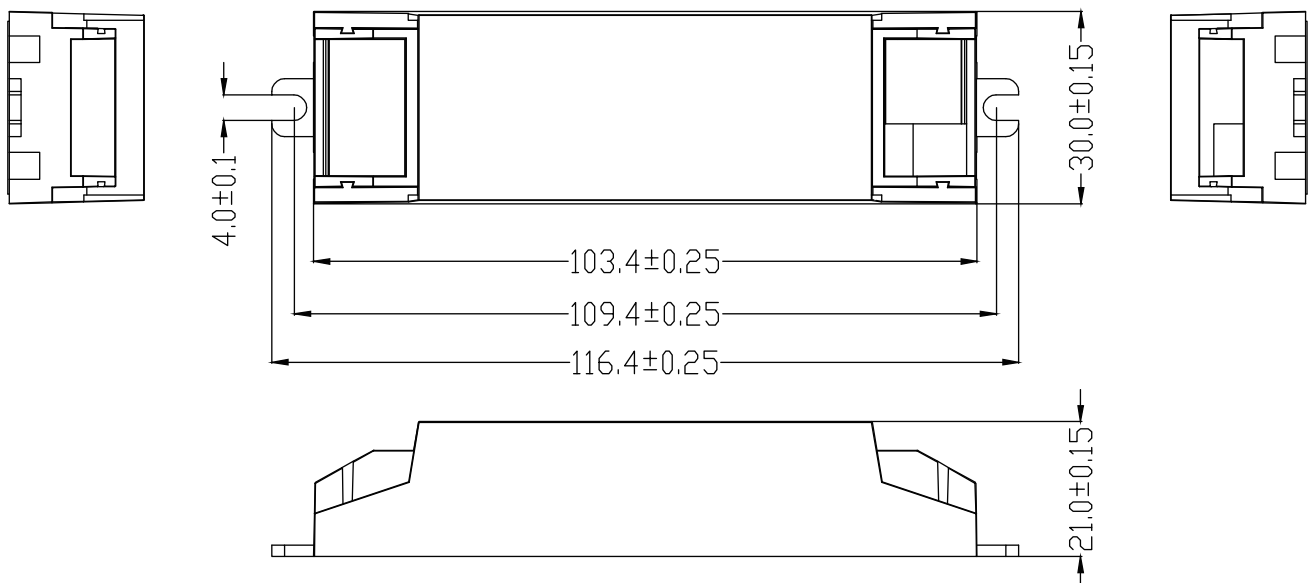
tc

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	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
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)

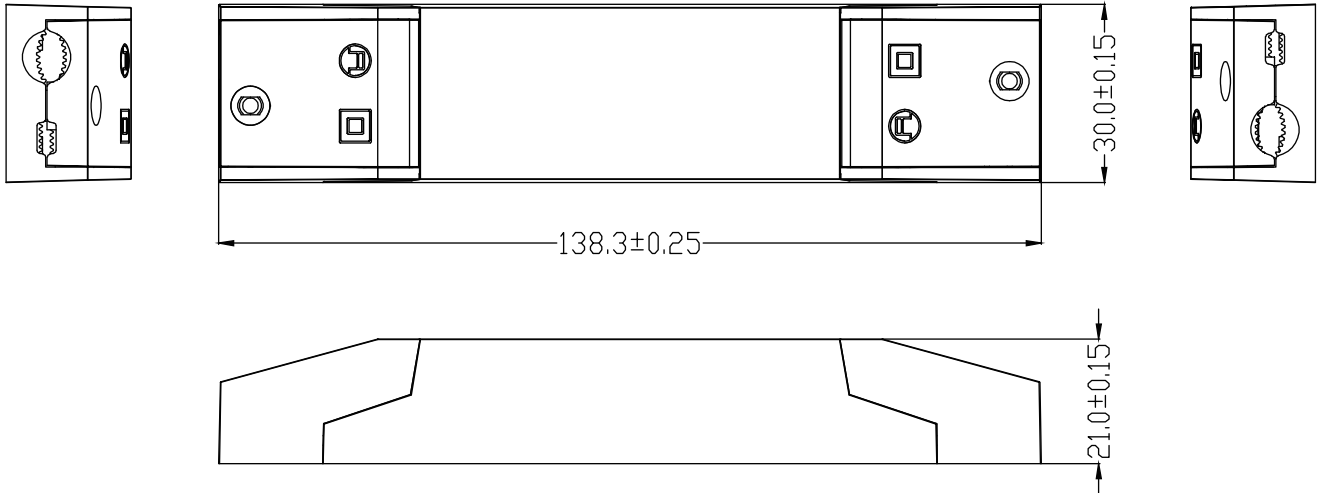
Built in type:



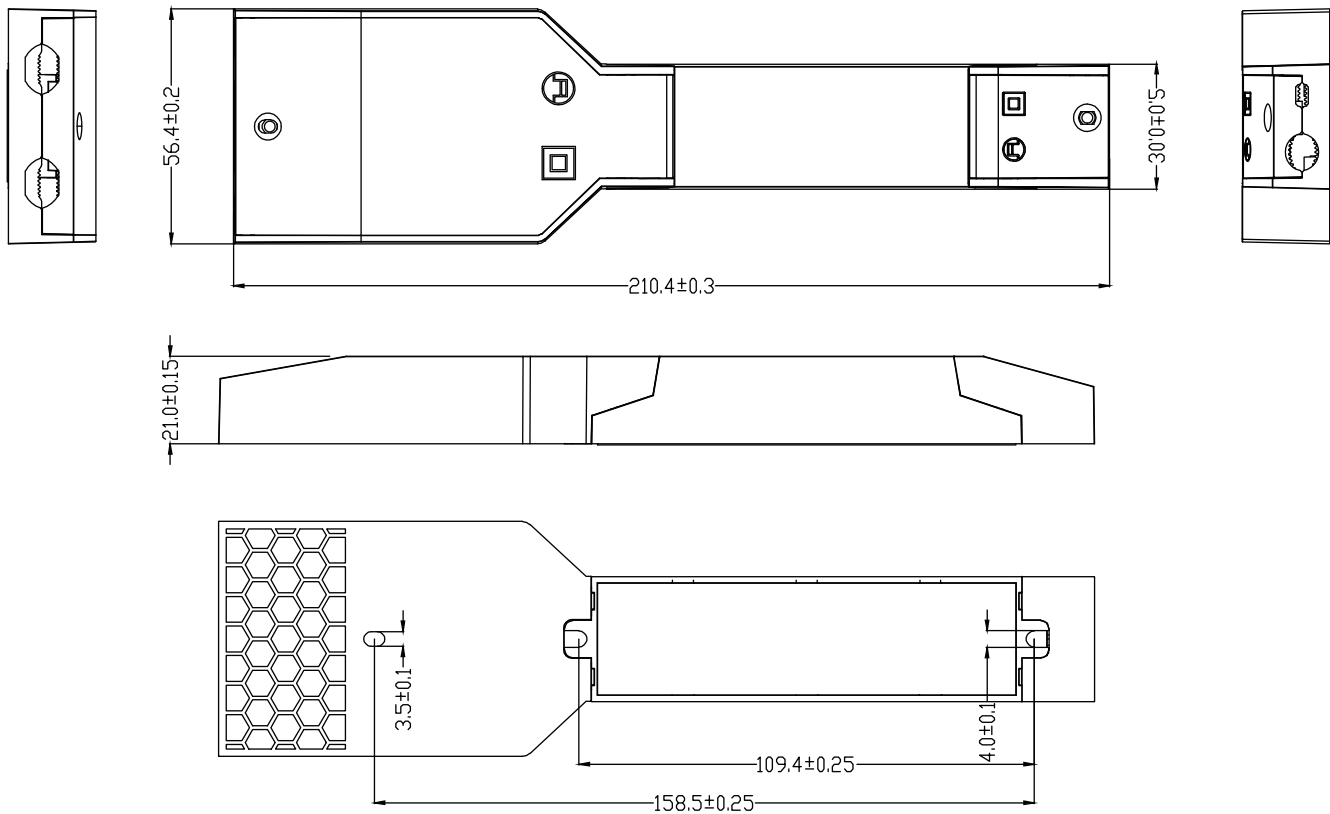
Compatible Small Strain reliefs:SR_CC15-23-36

Compatible Large Strain reliefs:SR_CC15-23-36_3POL

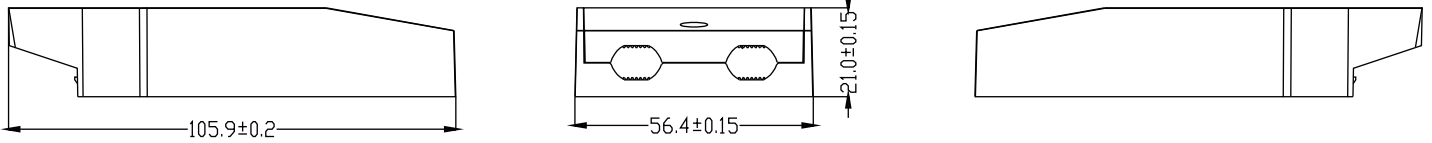
Small Strain reliefs



Large Strain reliefs



Large strain reliefs specifications



Tolerance for dimensions ± 0.1 mm

Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 55.4-57.4 x 20.0-22.0 mm

Wire size: 0.5 - 2.5 mm²

Ambient temperature range: -20...+50 °C

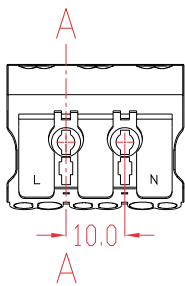
Storage temperature range: -20...+90 °C

Assembly temperature range: +5...+30 °C

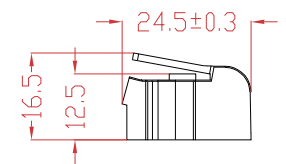
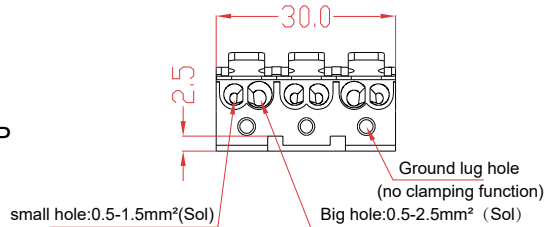
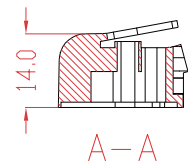
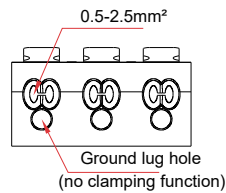
Do not store in wet or humid environment!

* Unless otherwise stated in the driver datasheet (for independent installation).
Note! T_c max temperature of the driver shall not be exceeded.

Terminal

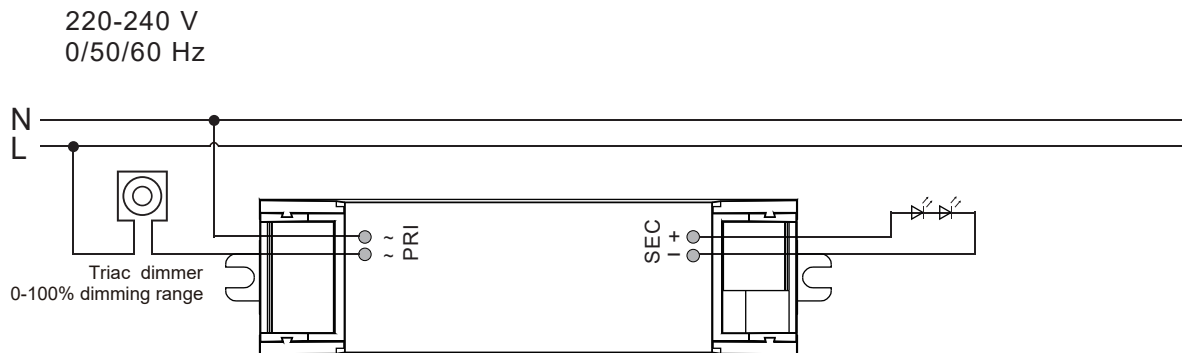


3 - pole connector for CC drivers with LC-SRB-LOOP

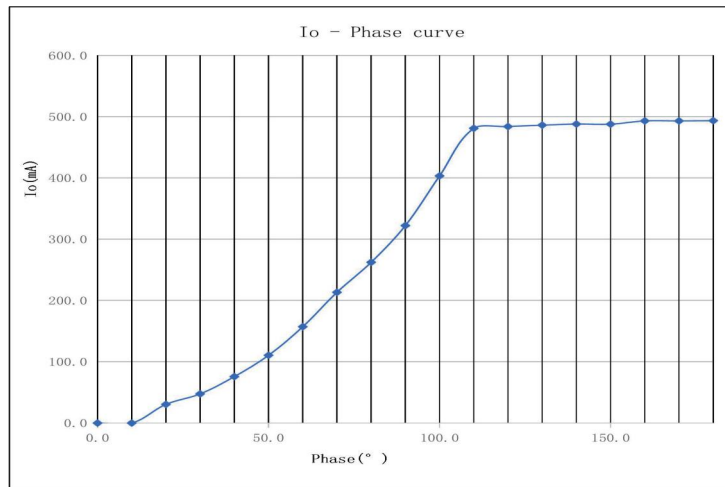


6. Wiring Diagram

Triac Connection:

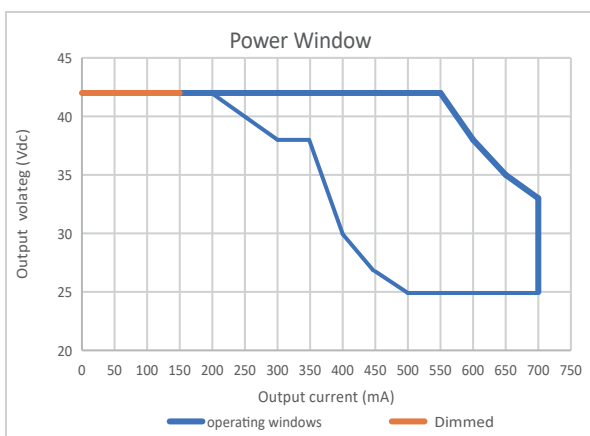


7. Dimming curve

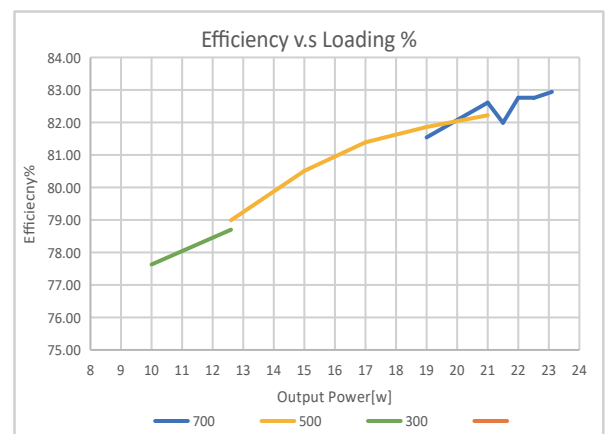


8. Electrical values

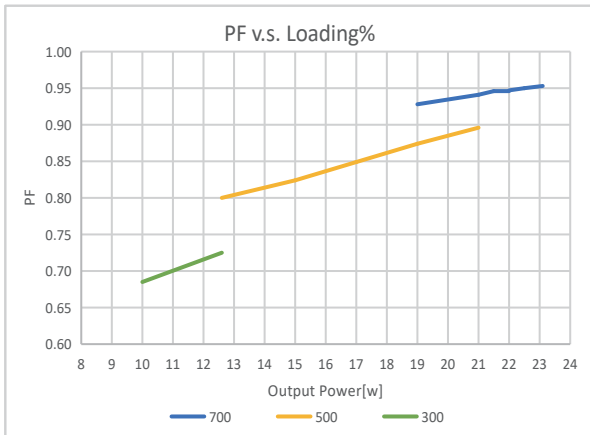
1. Operating power windows



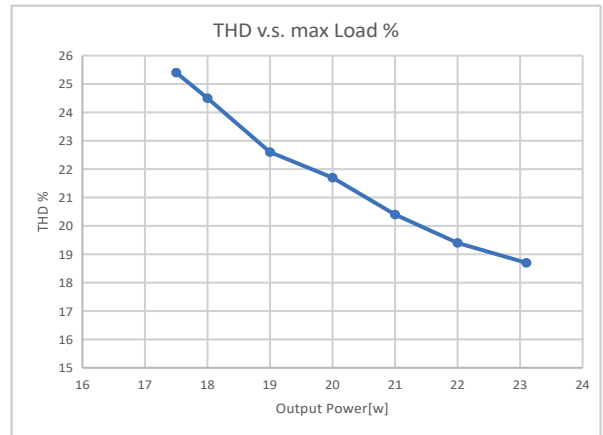
2. Efficiency v.s. Load



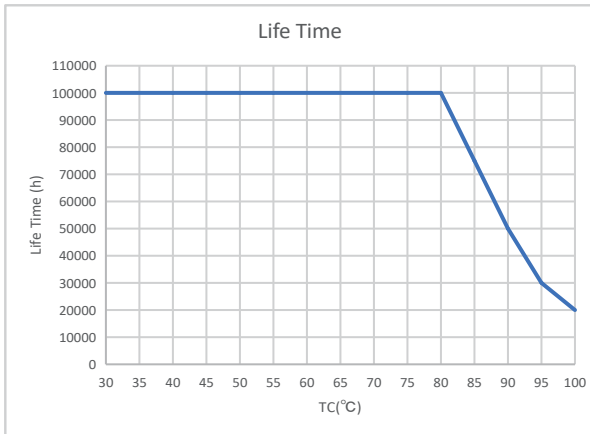
3. PF v.s. Load



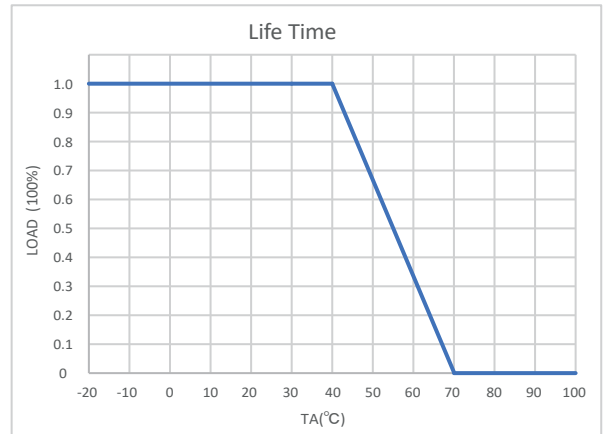
4. THD v.s. Load



5. Life time

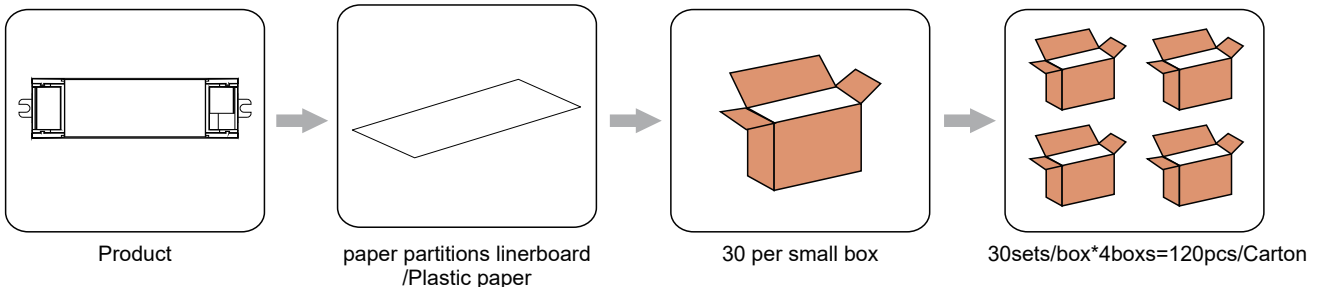


6. Derating



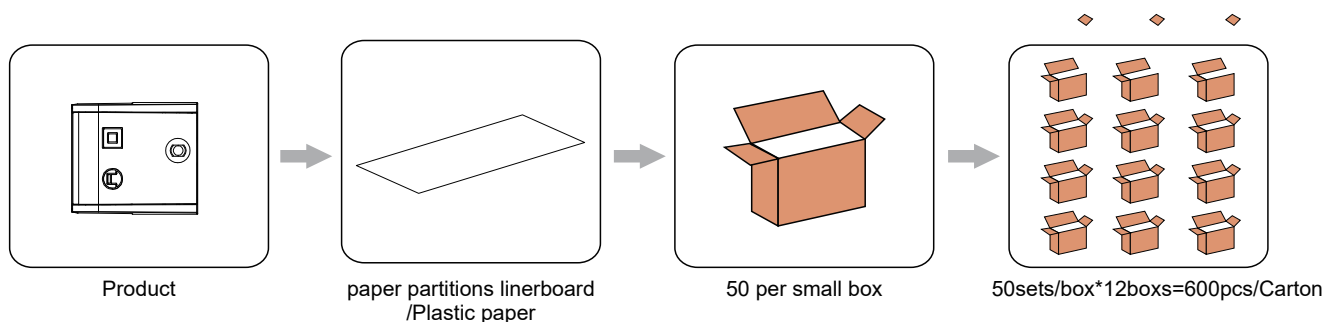
9. Packing information

Built in type



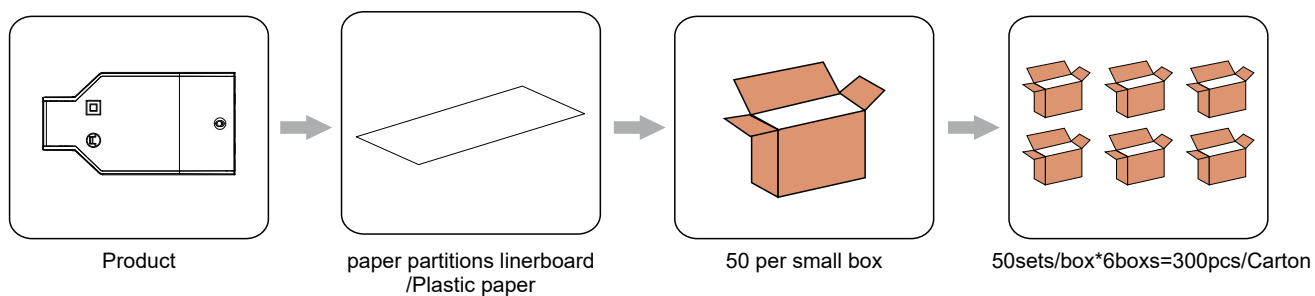
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
270*235*230	120	0.087	10.44	10.79

Small Strain reliefs



Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
500*195*245	600	0.007	4.26	5.56

Large Strain reliefs



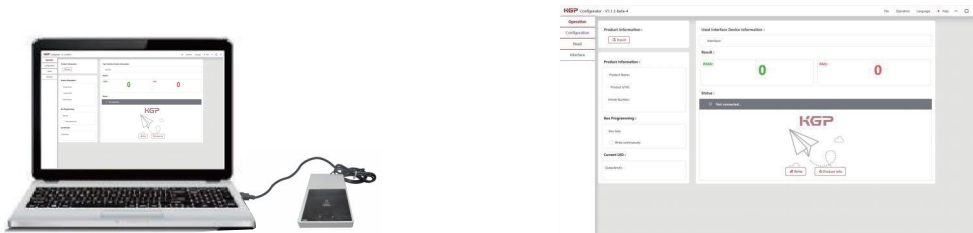
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
375*315*385	300	0.041	12.34	13.9







10. NFC current setting:

NFC Reader (optional)

Feature:

Easily on-line read a output current from a driver or write a new current data to a driver throughout KGP NFC reader within few seconds.



Product	Description	Interface	Matching antenna	Zhaga approval	Usage
 ID CPR30+	Desktop programmer	USB	Integrated	Yes	Single Programming on Desktop
 ID ISC.PRH101-USB	Handheld programmer	USB	Integrated	Yes	Single Programming by Handheld
 ID ISC.MR102-USB	Middle range programmer, for connecting external antenna	USB	RF-MANT12786 	Yes	Single Programming on Product line
 ID ISC.LR1002-E	Long range programmer, for connecting external antenna	USB,RS232,TCP/IP	ID ISC.ANT310/310 	Yes	Multi Programming System

APP NFC

Feature:

Quickly check output current of a LED driver simply via iPhone smart phone, as well as, correct or setup a new current data immediately with no extra equipment at any job site.

ICON



Main



Download method

1. Scan the QR code to download




2. On your iPhone, search for KGP NFC in APP Store to download it



iPhone smartphones with NFC can be downloaded and used directly

An iPhone smartphone without NFC requires the following devices to use it

Product	Description	Interface	Matching antenna	Zhaga approval	Usage
ID ECCO Smart HF-BLE 	Handheld wireless programmer	USB, Bluetooth LE V4.2 & V5.0	Integrated	Yes	Handheld programming, installation and maintenance work

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
2024.04.15	V0.01	Label, Packing information, Electrical values, Dimension, update images
2024.09.15	V0.02	Label, Packing information, Parameters, Dimension, update images
2024.12.02	V0.03	Label, Output Current, Electrical values, Parameters, update images