

CC23W100-700

Constant Current Driver

Model:CC23W100-700



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC23W100-700	100mA	0.08A	6.0W	0.25-4.60W	0.33-0.68	76%	2.5-46V	60V Max.
	150mA	0.09A	8.4W	0.37-6.90W	0.35-0.79	82%		
	200mA	0.10A	10.9W	0.50-9.20W	0.37-0.84	84%		
	250mA	0.11A	13.3W	0.62-11.50W	0.40-0.87	86%		
	300mA	0.12A	15.8W	0.75-13.80W	0.43-0.89	87%		
	350mA	0.13A	18.5W	0.87-16.10W	0.45-0.91	87%		
	400mA	0.14A	20.9W	1.00-18.40W	0.47-0.92	88%		
	450mA	0.15A	23.5W	1.12-20.70W	0.48-0.93	88%		
	500mA	0.16A	26.1W	1.25-23.00W	0.50-0.94	88%		
	550mA	0.16A	26.2W	1.37-23.10W	0.52-0.94	88%	2.5-42V	
	600mA	0.16A	25.9W	1.50-22.80W	0.53-0.94	88%	2.5-38V	
	650mA	0.16A	26.1W	1.62-22.75W	0.54-0.94	87%	2.5-35V	
	700mA	0.16A	26.5W	1.75-23.10W	0.56-0.94	87%	2.5-33V	

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
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	≤0.16A
	Input Power	≤26.5W
	Power Factor	≥0.94 (230VAC, full load)
	THD	≤14% (230VAC, full load)
	No-load Power Consumption	≤0.5W (230VAC, full load)
	Inrush Current	≤7.9A/2.6us (230VAC, full load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	24pcs/type A ; 39pcs/type B ; 63pcs/type C 39pcs/type A; 63pcs/type B ; 101pcs/type C 49pcs/type A; 79pcs/type B ; 126pcs/type C
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	60VDC Max.
	Output Current	100-700mA (Factory set current of 100mA)
	Max. Output Power	23.1W
	Efficiency	≥88% 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 Time (AC mode)	≤0.5S (230VAC, full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery (not be hot swap)
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 700μA, I/P to O/P @230V input
Environment	Ta/Operation Temperature	-20℃ .+50℃
	Ts/Storage Temperature	-20℃ .+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	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/ENEC/SAA/UKCA/EAC/CB
	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; BS EN61347-1:2015/A1:2021; BS EN61347-2-13:2014/A1:2017; 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-Ground:2kV; 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
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. Label



CC23W100-700

LED Driver

Constant Current Type for operation with LED modules only

PRI:220-240VAC 0/50/60Hz Max. 0.16A U-OUT:60V

SEC:100-700mA 2.5-46VDC ● tc =85℃ ta =50℃

Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
4.6	100	0.33C-0.68C	-	-	-	-	20.7	450	0.48C-0.93C	-	ON	ON	ON
6.9	150	0.35C-0.79C	-	-	-	ON	23.0	500	0.50C-0.94C	ON	-	-	-
9.2	200	0.37C-0.84C	-	-	ON	-	23.1	550	0.52C-0.94C	ON	-	-	ON
11.5	250	0.40C-0.87C	-	-	ON	ON	22.8	600	0.53C-0.94C	ON	-	ON	-
13.8	300	0.43C-0.89C	-	ON	-	-	22.7	650	0.54C-0.94C	ON	-	ON	ON
16.1	350	0.45C-0.91C	-	ON	-	ON	23.1	700	0.56C-0.94C	ON	ON	-	-
18.4	400	0.47C-0.92C	-	ON	ON	-	Range of application:DC 180-280V						

SEC = ☐ + ☐ -

wire preparation 8-9mm

PRI: 0.5-1.5°
SEC: 0.5-1.5°

ON ☐ OFF ☐

1 2 3 4









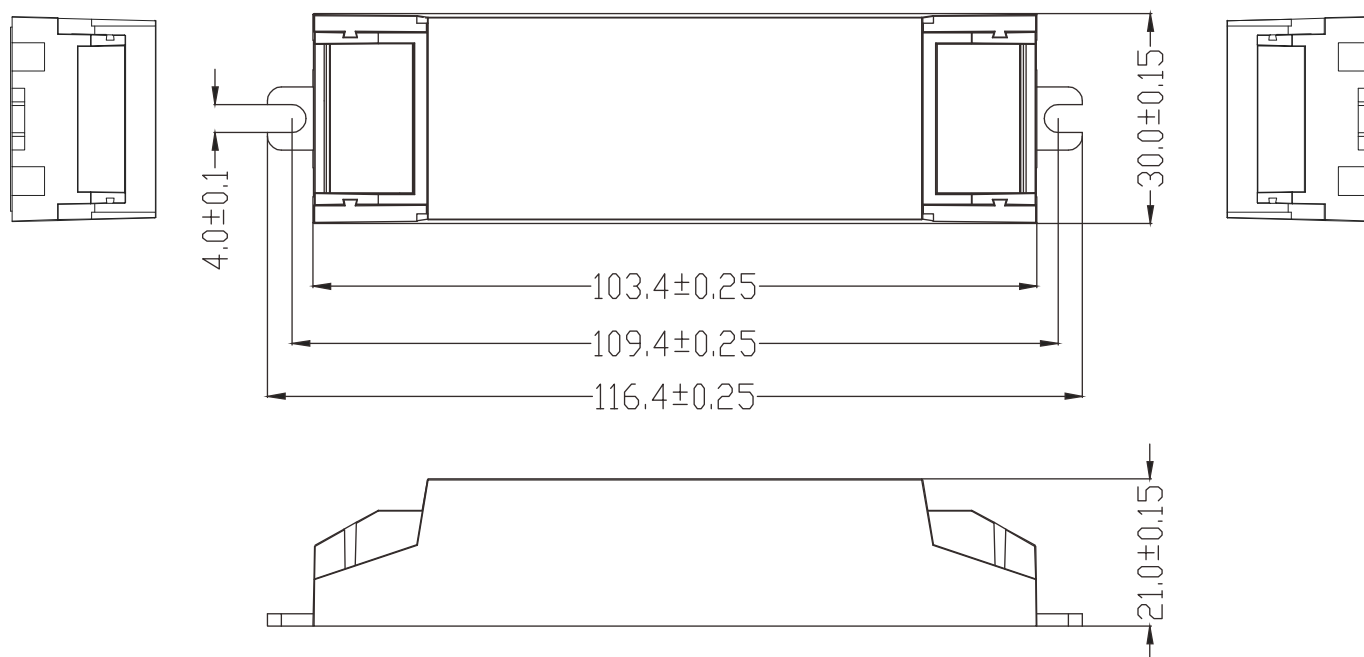



3. Output Current Setting

Output Current	1	2	3	4
100mA	-	-	-	-
150mA	-	-	-	ON
200mA	-	-	ON	-
250mA	-	-	ON	ON
300mA	-	ON	-	-
350mA	-	ON	-	ON
400mA	-	ON	ON	-
450mA	-	ON	ON	ON
500mA	ON	-	-	-
550mA	ON	-	-	ON
600mA	ON	-	ON	-
650mA	ON	-	ON	ON
700mA	ON	ON	-	-

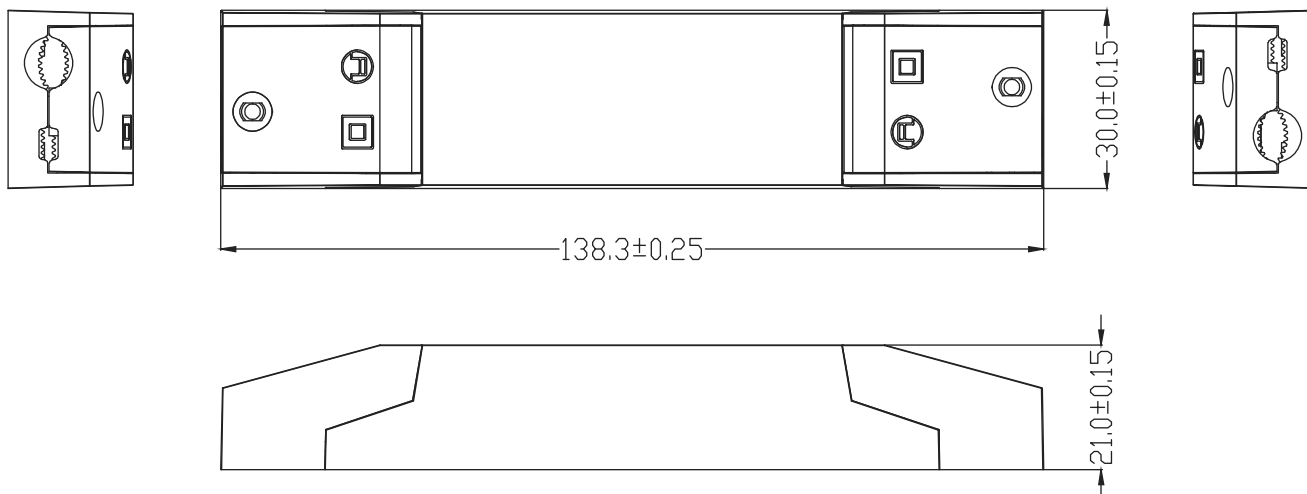
4. Dimension (Unit: mm)

Built in type:

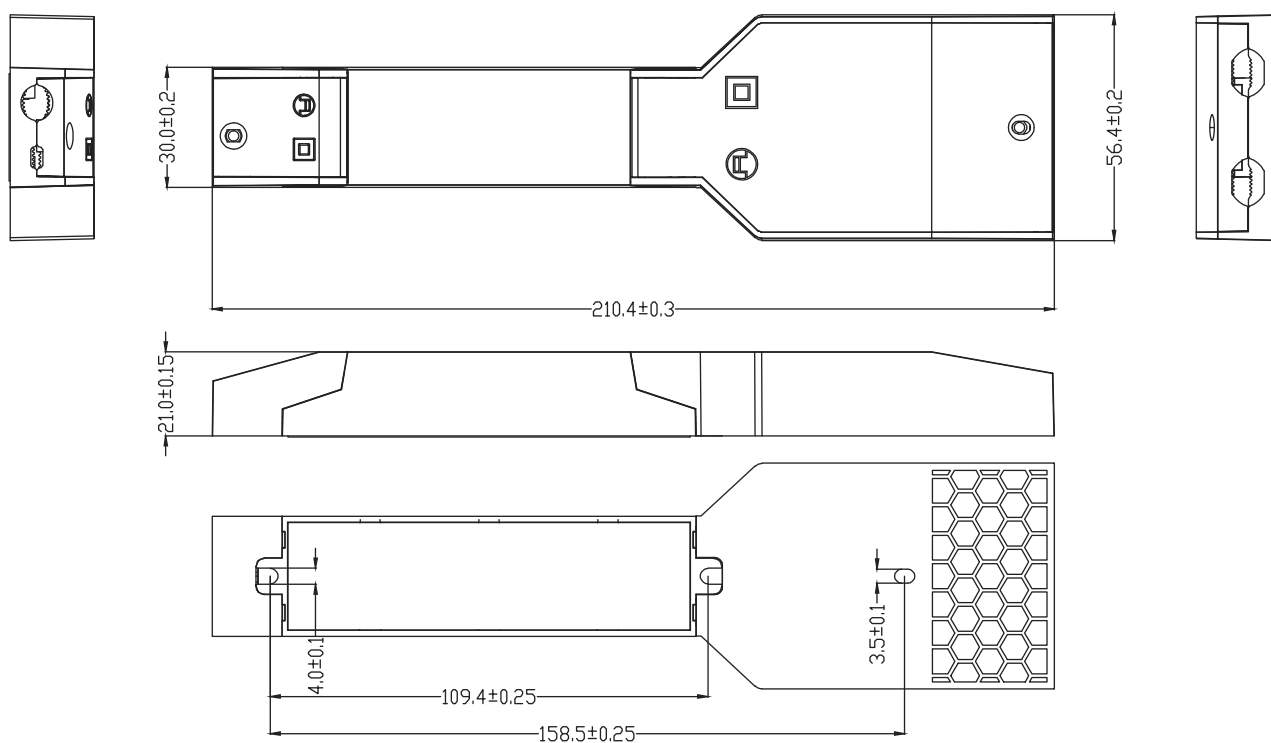


Compatible Small Strain reliefs:SR_CC15_23_36
Compatible Large Strain reliefs:SR_CC15_23_36_3POL

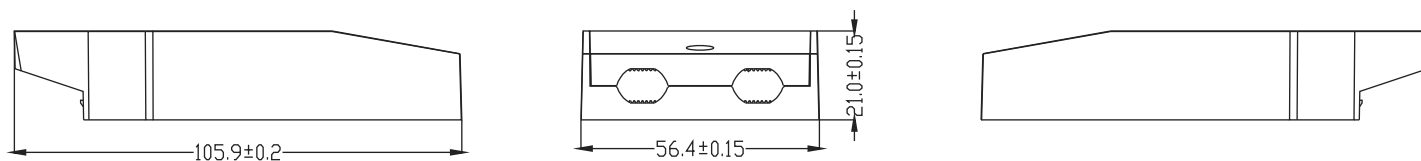
Small Strain reliefs



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

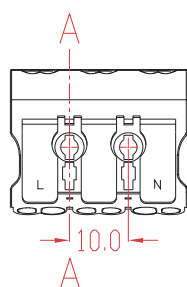
Storage temperature range: -20□+85 °C

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

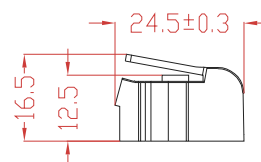
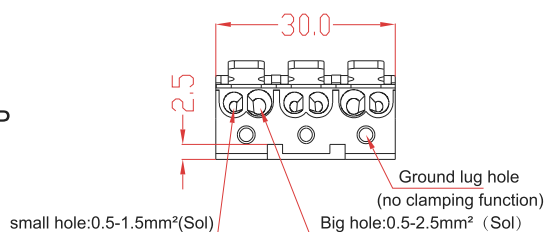
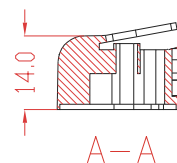
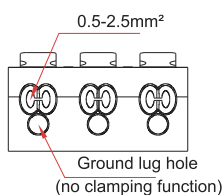
Do not store in wet or humid environment!

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

Terminal

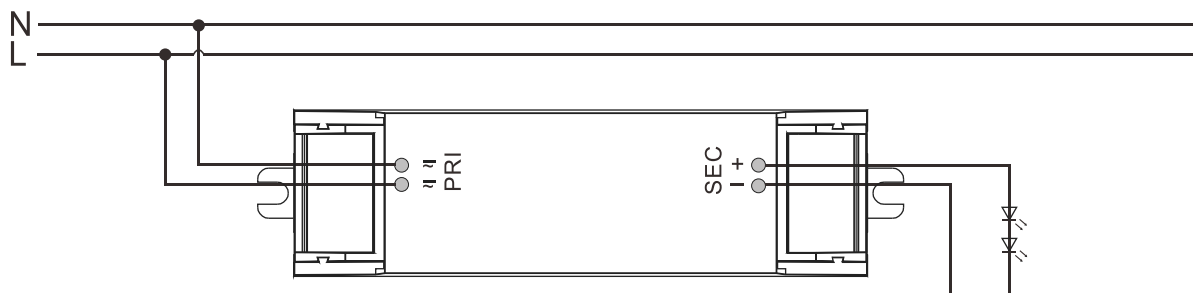


3 - pole connector for CC
drivers with LC-SRB-LOOP



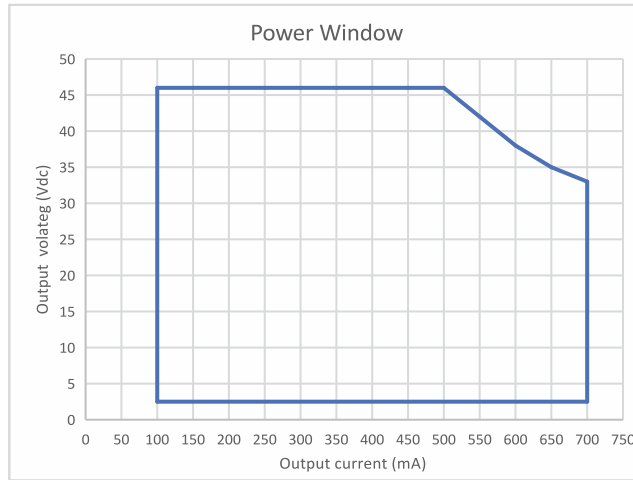
5. Wiring Diagram

220-240 V
0/50/60 Hz

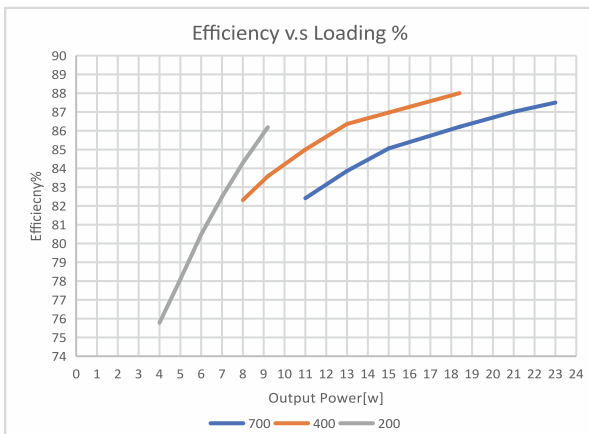


6. Electrical values

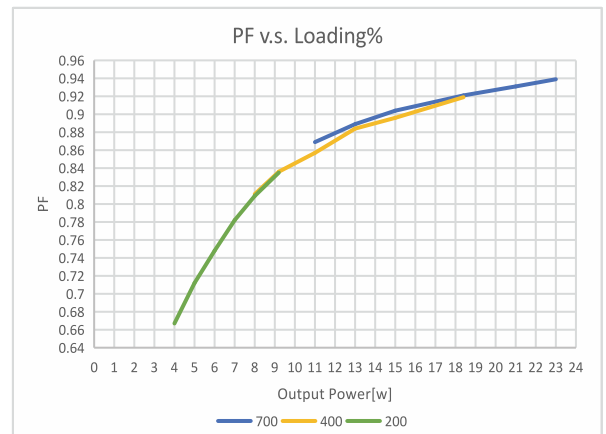
1. Operating power windows



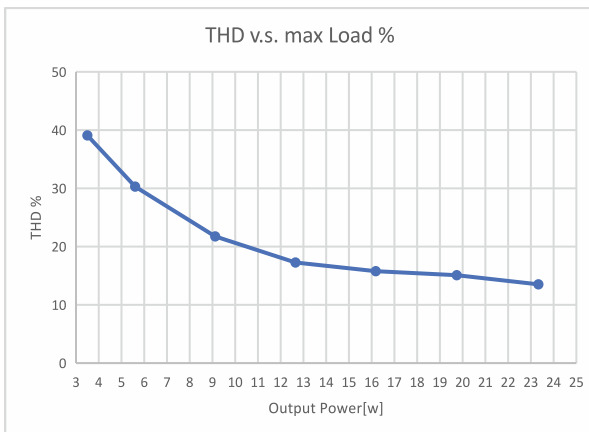
2. Efficiency v.s. Load



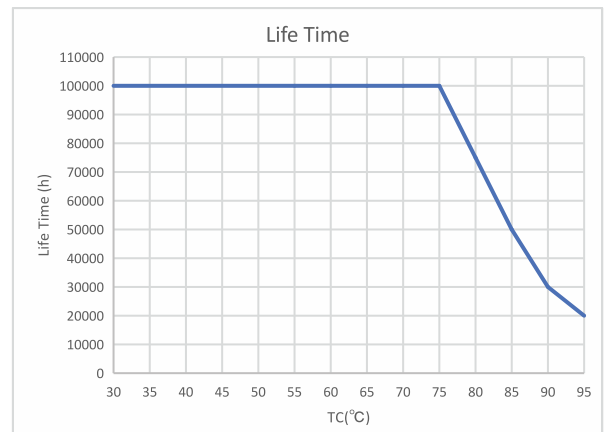
3. PF v.s. Load



4. THD v.s. Load

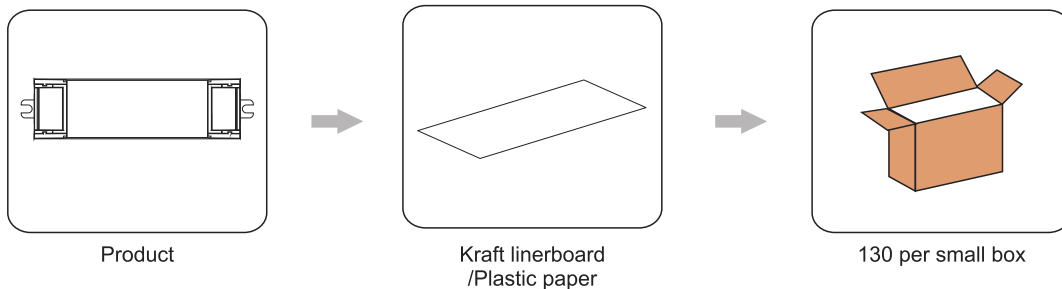


5. Life time



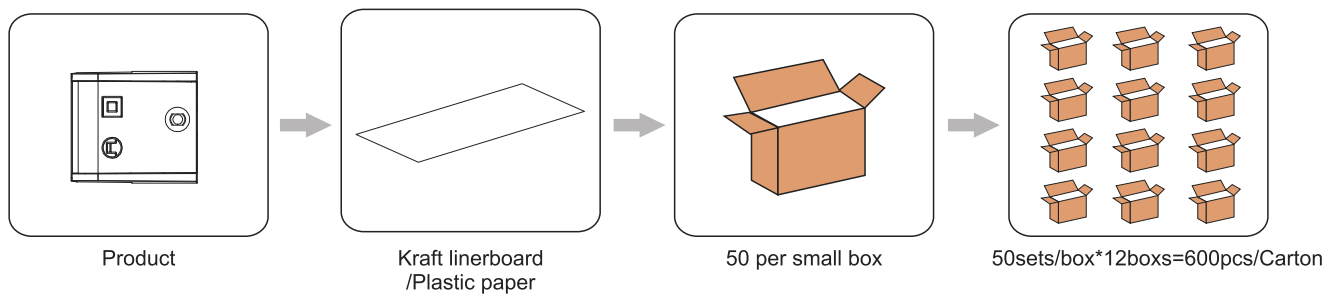
7. Packing information

Built in type



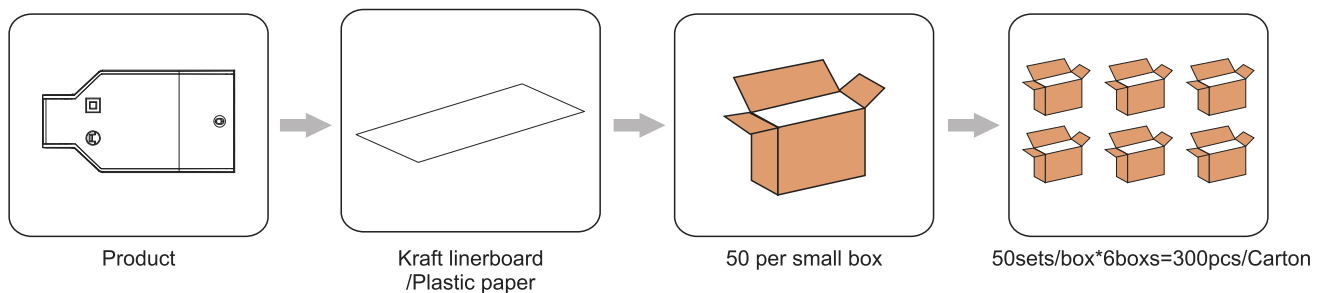
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*130	130	0.072	9.36	9.86

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

8. REVISION HISTORY

Date	Revision	Remark
2023.10.07	V0.01	update images
2024.04.15	V0.02	Label, Packing information, Electrical values, Dimension, update images