CC15W100-700

Constant Current Driver

Model:CC15W100-700



Model	Item Code	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC15W100-700	151141	100mA	0.05A	5.8W	0.25-4.60W	0.31-0.68	78%	2.5-46V	60V Max.
		150mA	0.06A	8.3W	0.37-6.90W	0.34-0.77	83%		
		200mA	0.07A	10.8W	0.50-9.20W	0.38-0.83	85%		
		250mA	0.08A	13.3W	0.62-11.50W	0.38-0.86	86%		
		300mA	0.09A	15.8W	0.75-13.80W	0.38-0.89	87%		
		350mA	0.10A	16.8W	0.87-14.70W	0.39-0.89	87%	2.5-42V	
		400mA	0.10A	17.0W	1.00-14.80W	0.41-0.89	87%	2.5-37V	
		450mA	0.10A	17.2W	1.12-14.85W	0.42-0.90	86%	2.5-33V	
		500mA	0.10A	17.4W	1.25-15.00W	0.48-0.90	86%	2.5-30V	
		550mA	0.10A	17.4W	1.37-14.85W	0.48-0.90	85%	2.5-27V	
		600mA	0.11A	17.6W	1.50-15.00W	0.49-0.90	85%	2.5-25V	
		650mA	0.11A	17.5W	1.62-14.95W	0.51-0.90	85%	2.5-23V	
		700mA	0.11A	17.5W	1.75-14.70W	0.53-0.90	84%	2.5-21V	

*** 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

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	Frequency	0/50/60Hz, Range:0/47-63Hz
	Overvoltage protection	2h@380VAC, 48h@320VAC
	Input Current	≤0.11A
	Input Power	≤17.6W
	Power Factor	≥0.90 (230VAC，full load)
	THD	≤10% (230VAC，full load)
	No-load Power Consumption	≤0.5W (230VAC，full load)
	Inrush Current	≤7.2A/2.6us (230VAC，full load)
	Connected quantity of 10A Breaker Connected quantity of 13A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	27pcs/type A ; 43pcs/type B ; 69pcs/type C 35pcs/type A; 56pcs/type B ; 90pcs/type C 43pcs/type A; 69pcs/type B ; 111pcs/type C 54pcs/type A; 86pcs/type B ; 138pcs/type C
Output	Output Voltage Range	2.5-46VDC@100-300mA, 2.5-42VDC@350mA, 2.5-37VDC@400mA, 2.5-33VDC@450mA 2.5-30VDC@500mA, 2.5-27VDC@550mA 2.5-25VDC@600mA, 2.5-23VDC@650mA 2.5-21VDC@700mA
	No Load Voltage	60VDC Max.
	Output Current	100-700mA (Factory set current of 100mA)
	Max. Output Power	15.0W
	Efficiency	≥87% 230VAC，full load
	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

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	SEC Wire length	0-0.8±0.05m (The EMC test results were achieved at approximately 0.8 meters (the length required by the standard). If there are any data differences, please test according to the length required by the standard)
	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

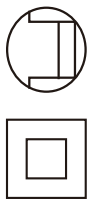
Remark:

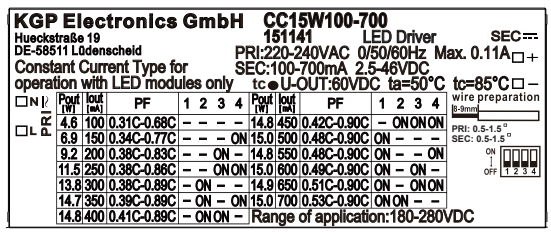
1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.

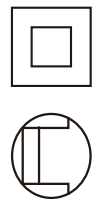
2.LED Driver is a component of the luminaires. Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

Distance	15m	30m	50m
Cable selection	0.5mm²	0.75mm²	1.0mm²

2. Label









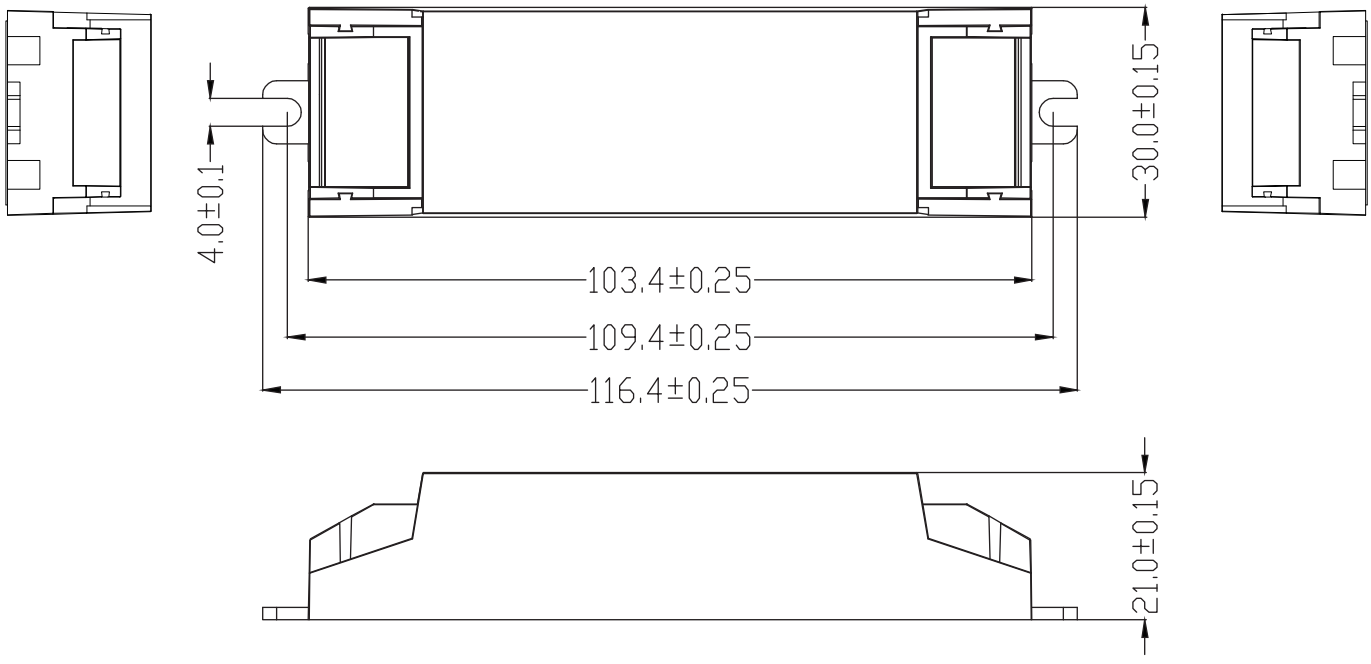
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3. Output Current Setting

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）

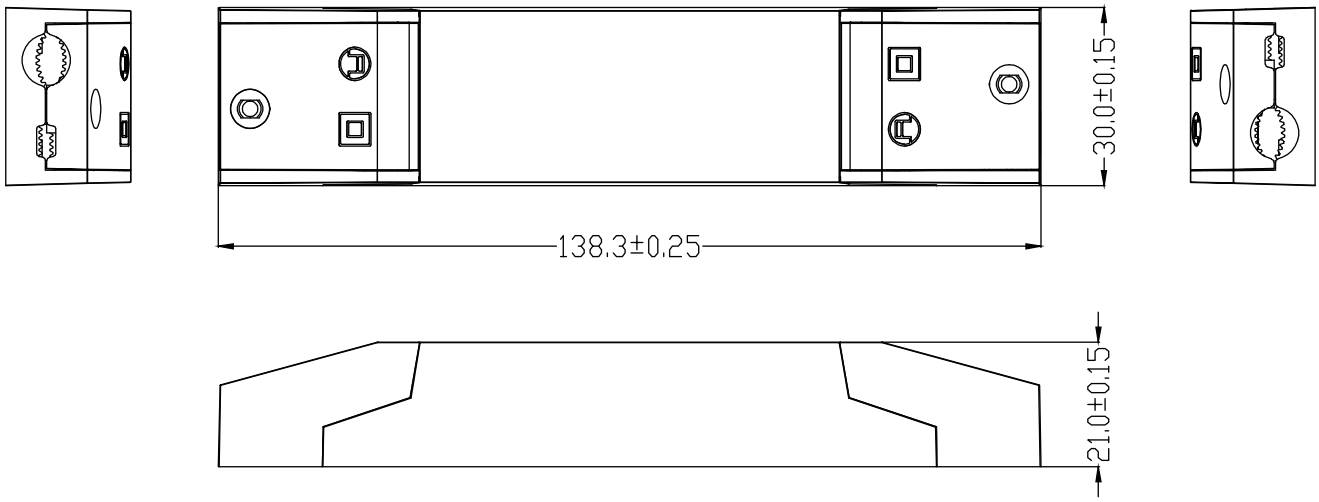
Built in type:



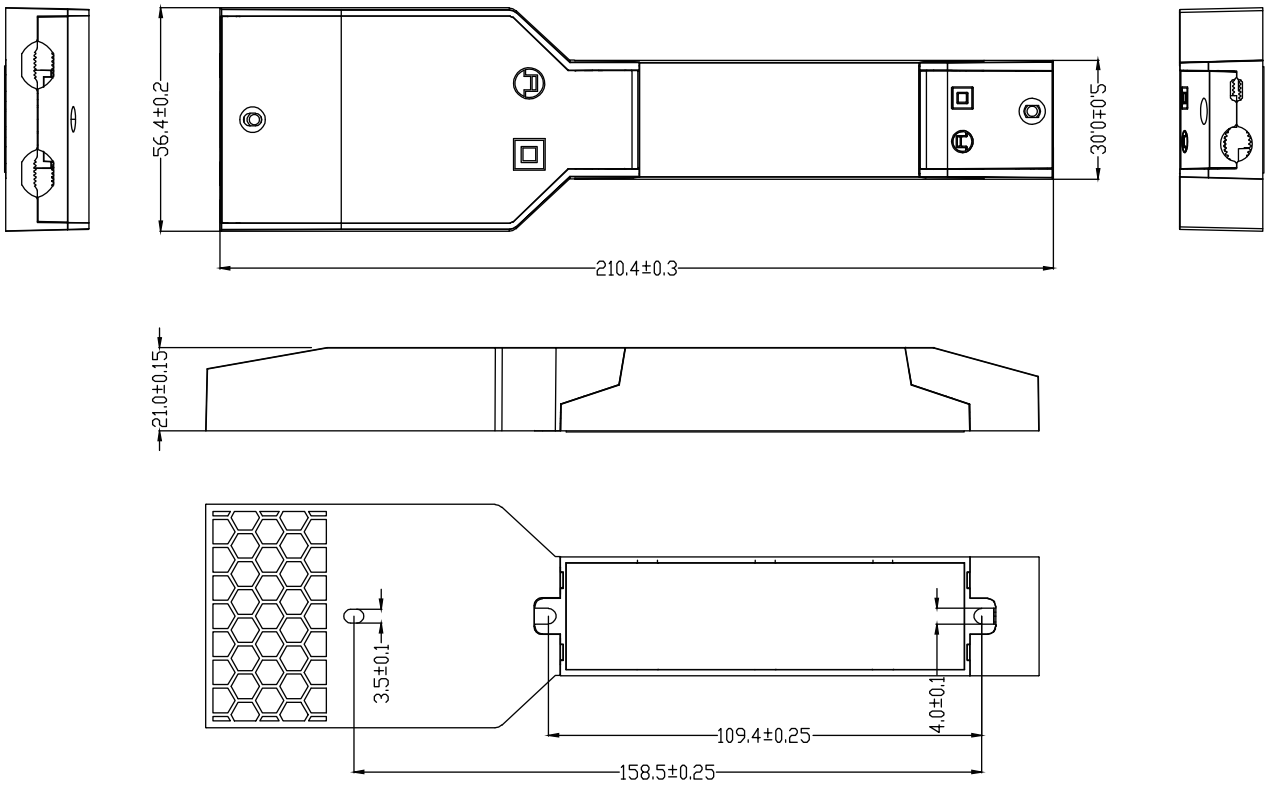
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Compatible Small Strain reliefs:SR_CC15-23-36
Compatible Large Strain reliefs:SR_CC15-23-36_3POL

Small Strain reliefs

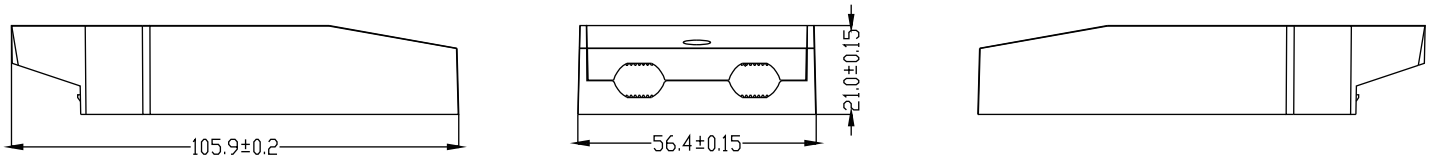


Large Strain reliefs



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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

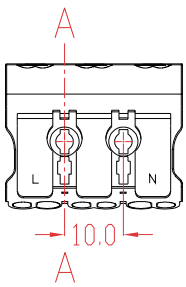
Storage temperature range: -20…+85 °C

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

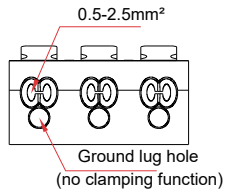
Do not store in wet or humid environment!

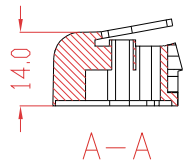
* Unless otherwise stated in the driver datasheet (for independent installation). Note! Tc max temperature of the driver shall not be exceeded.

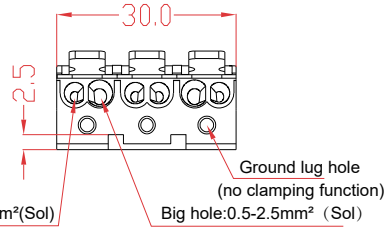
Terminal

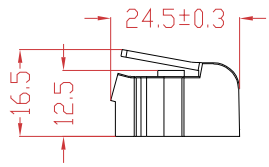


3 - pole connector for CC drivers with LC-SRB-LOOP



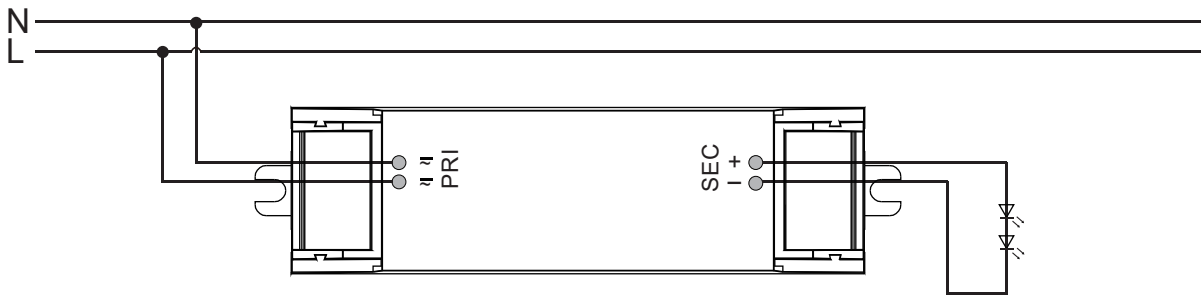






5. Wiring Diagram

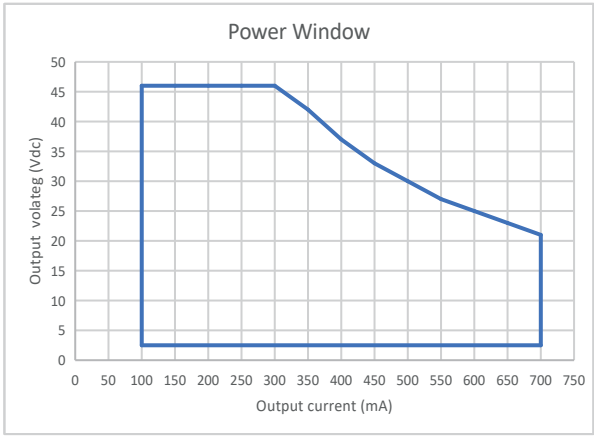
220-240 V
0/50/60 Hz



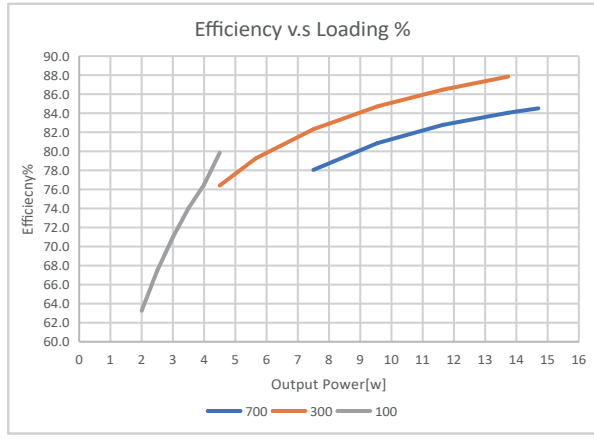
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6. Electrical values

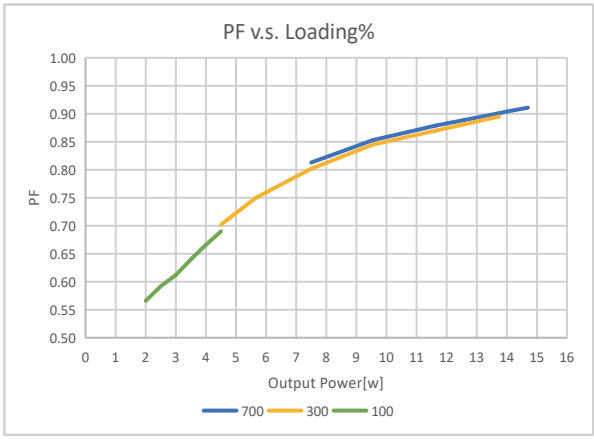
1. Operating power windows



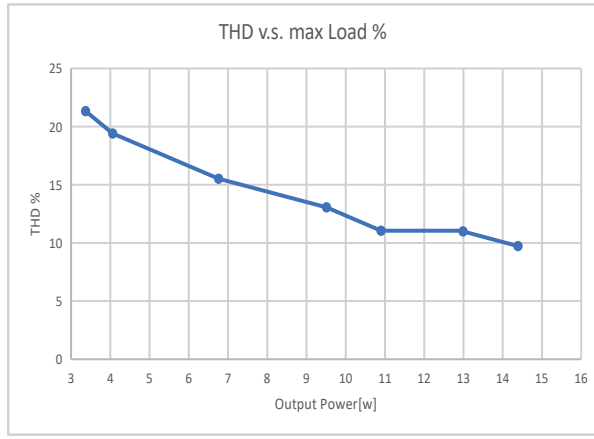
2. Effciency v.s. Load



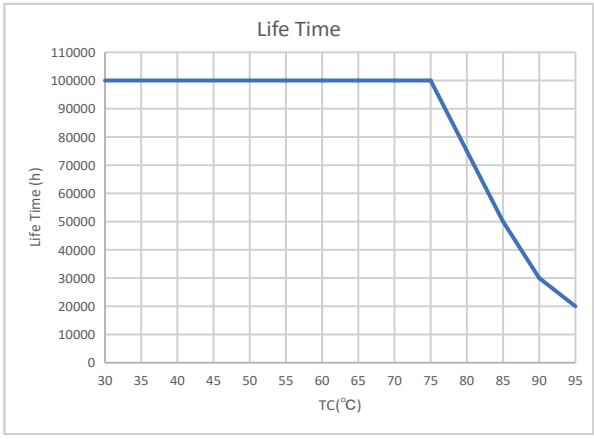
3. PF v.s. Load



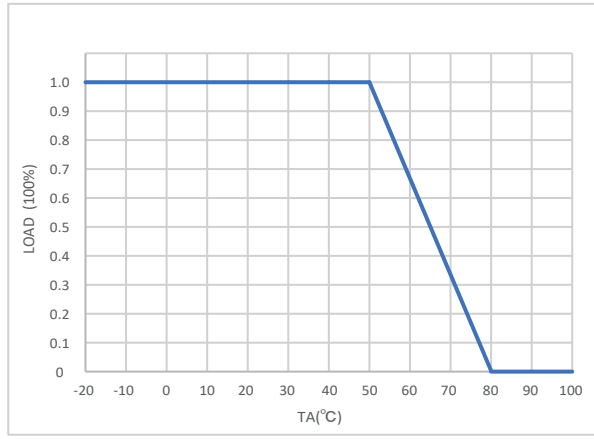
4.THD v.s. Load



5.Life time



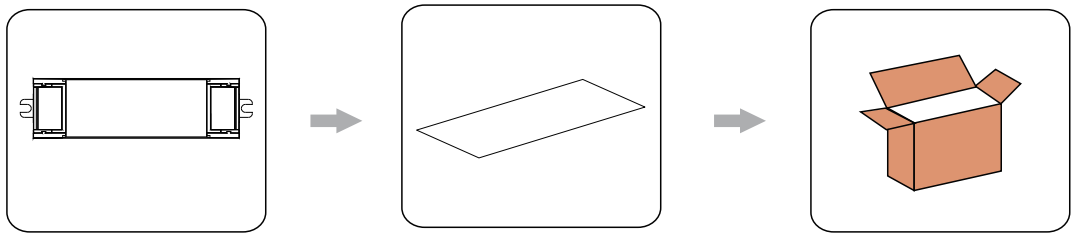
6.Derating



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7. Packing information

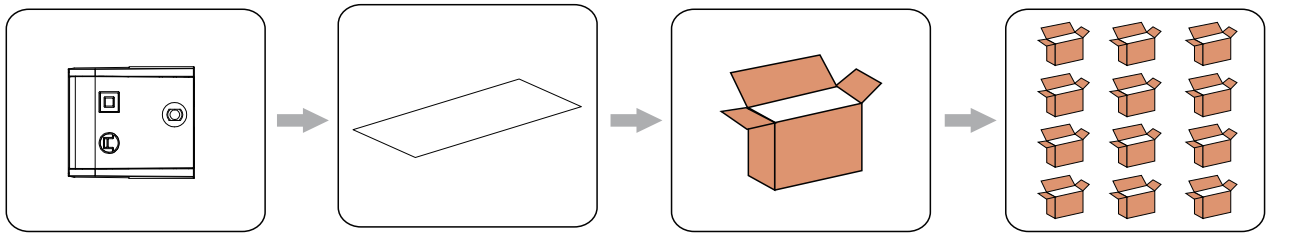
Built in type



Product | paper partitions linerboard /Plastic paper | 130 per small box

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

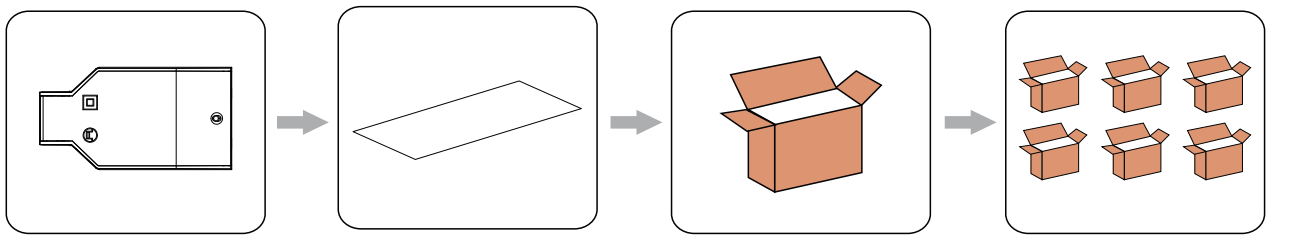
Small Strain reliefs



Product | paper partitions linerboard /Plastic paper | 50 per small box | 50sets/box*12boxs=600pcs/Carton

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



Product | paper partitions linerboard /Plastic paper | 50 per small box | 50sets/box*6boxs=300pcs/Carton

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

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8. Ordering Data

Model No.	Item Code
CC15W100-700	151141
SR_CC_15-23-36	147841
SR_CC_15-23-36_3POL	151151

9. 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, Parameters, Electrical values, update images
2025.01.17	V0.04	Label, update images
2025.07.14	V0.05	Parameters（SEC Wire length）,Ordering Data