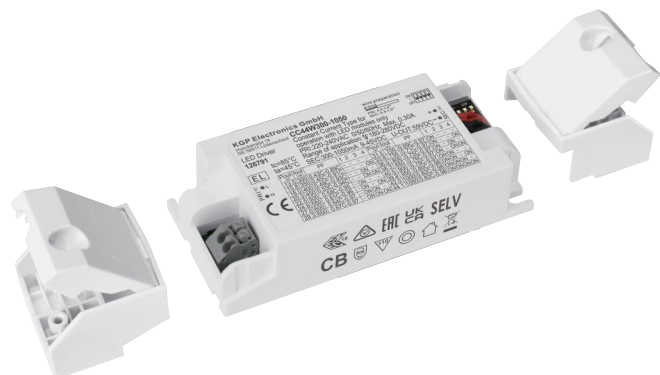


Constant Current Driver

Model:CC44W300-1050



Model	Item Code	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC44W300-1050	126791	300mA	0.16A	15.73W	2.70-13.50W	0.43-0.89	85.8 %	9-45V	59V Max.
		350mA	0.17A	18.20W	3.15-15.75W	0.45-0.91	86.5 %	9-45V	
		400mA	0.18A	20.68W	3.60-18.00W	0.49-0.93	87.0 %	9-45V	
		450mA	0.19A	23.14W	4.05-20.25W	0.53-0.94	87.5 %	9-45V	
		500mA	0.20A	25.62W	4.50-22.50W	0.58-0.95	87.8 %	9-45V	
		550mA	0.21A	28.12W	4.95-24.75W	0.61-0.96	88.0 %	9-45V	
		600mA	0.22A	30.68W	5.40-27.00W	0.64-0.97	88.0 %	9-45V	
		650mA	0.23A	33.23W	5.85-29.25W	0.67-0.97	88.0 %	9-45V	
		700mA	0.24A	35.79W	6.30-31.50W	0.69-0.97	88.0 %	9-45V	
		750mA	0.25A	38.35W	6.75-33.75W	0.71-0.97	88.0 %	9-45V	
		800mA	0.26A	40.90W	7.20-36.00W	0.75-0.97	88.0 %	9-45V	
		850mA	0.27A	43.46W	7.65-38.25W	0.76-0.97	88.0 %	9-45V	
		900mA	0.28A	46.02W	8.10-40.50W	0.78-0.97	88.0 %	9-45V	
		950mA	0.28A	45.34W	8.55-39.90W	0.80-0.98	88.0 %	9-42V	
		1000mA	0.29A	47.72W	9.00-42.00W	0.82-0.98	88.0 %	9-42V	
		1050mA	0.30A	50.11W	9.45-44.10W	0.82-0.98	88.0 %	9-42V	

* 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	≤0.30A (230VAC, full load)
	Input Power	≤50.11W (230VAC, full load)
	Power Factor	≥0.98 (230VAC, full load)
	THD	≤7% (230VAC, full load)
	No Load Power Consumption	≤0.5W (230VAC, full load)
	Inrush Current	≤9.4A/2.3us (230VAC, full load)
	Connected quantity of 10A Breaker	20pcs/type A ; 33pcs/type B ; 53pcs/type C
	Connected quantity of 13A Breaker	27pcs/type A; 43pcs/type B ; 69pcs/type C
	Connected quantity of 16A Breaker	33pcs/type A; 53pcs/type B ; 85pcs/type C
	Connected quantity of 20A Breaker	41pcs/type A; 66pcs/type B ; 106pcs/type C
Output	Output Voltage Range	9-45VDC@300-900mA 9-42VDC@950-1050mA
	No Load Voltage	59VDC Max.
	Output Current	300-1050mA (Factory set current of 300mA)
	Max. Output Power	44.1W
	Efficiency	≥88% 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	-25....+45℃
	Ts/Storage Temperature	-40....+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	PVC,VDE certificated,0.5-1.5 [□] ,with 8mm tin
	SEC Wire preparation	PVC,VDE certificated,0.5-1.5 [□] ,with 8mm tin
	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	97.5*44*23mm (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	EN62384
	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	0.5mm ²	0.75mm ²	1.0mm ²

2. Label




KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

CC44W300-1050

LED Driver
126791

tc=85℃
ta=45℃

Constant Current Type for operation with LED modules only
PRI:220-240VAC 0/50/60Hz Max. 0.30A
Range of application: 180-280VDC
SEC:300-1050mA 9-45VDC U-OUT:59VDC

Pout (W)	Iout (mA)	PF	1	2	3	4	Pout (W)	Iout (mA)	PF	1	2	3	4
13.5	300	0.43C-0.89C	-	-	-	-	31.5	700	0.69C-0.97	ON	-	-	-
15.8	350	0.45C-0.91C	-	-	-	ON	33.8	750	0.71C-0.97	ON	-	-	ON
18.0	400	0.49C-0.93C	-	-	ON	-	36.0	800	0.75C-0.97	ON	-	ON	-
20.3	450	0.53C-0.94C	-	-	ON	ON	38.3	850	0.76C-0.97	ON	-	ON	ON
22.5	500	0.58C-0.95	-	ON	-	-	40.5	900	0.78C-0.97	ON	ON	-	-
24.8	550	0.61C-0.96	-	ON	-	ON	39.9	950	0.80C-0.98	ON	ON	-	ON
27.0	600	0.64C-0.97	-	ON	ON	-	42.0	1000	0.82C-0.98	ON	ON	ON	-
29.3	650	0.67C-0.97	-	ON	ON	ON	44.1	1050	0.82C-0.98	ON	ON	ON	ON



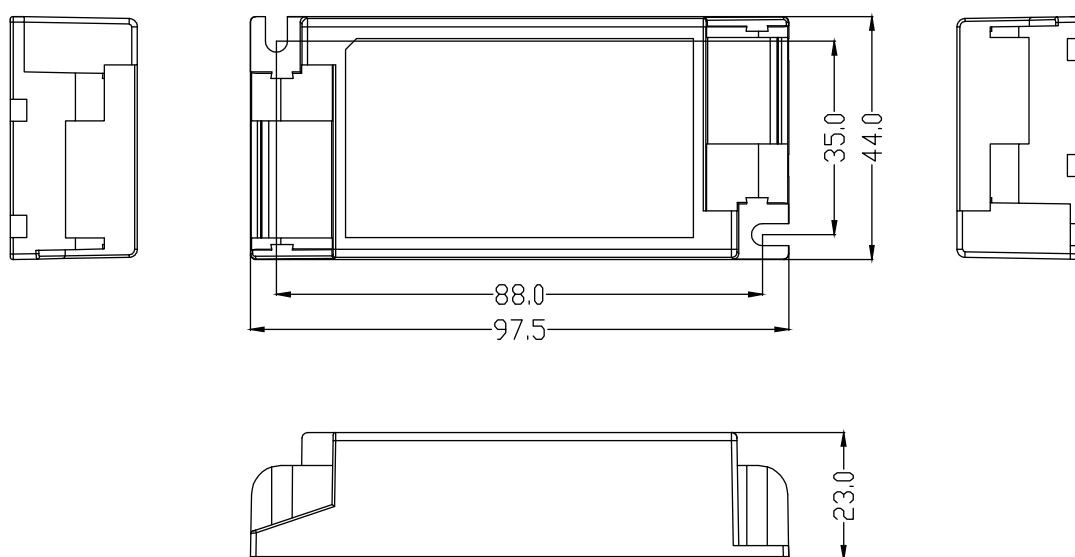



3. Output Current Setting

Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

4. Dimension

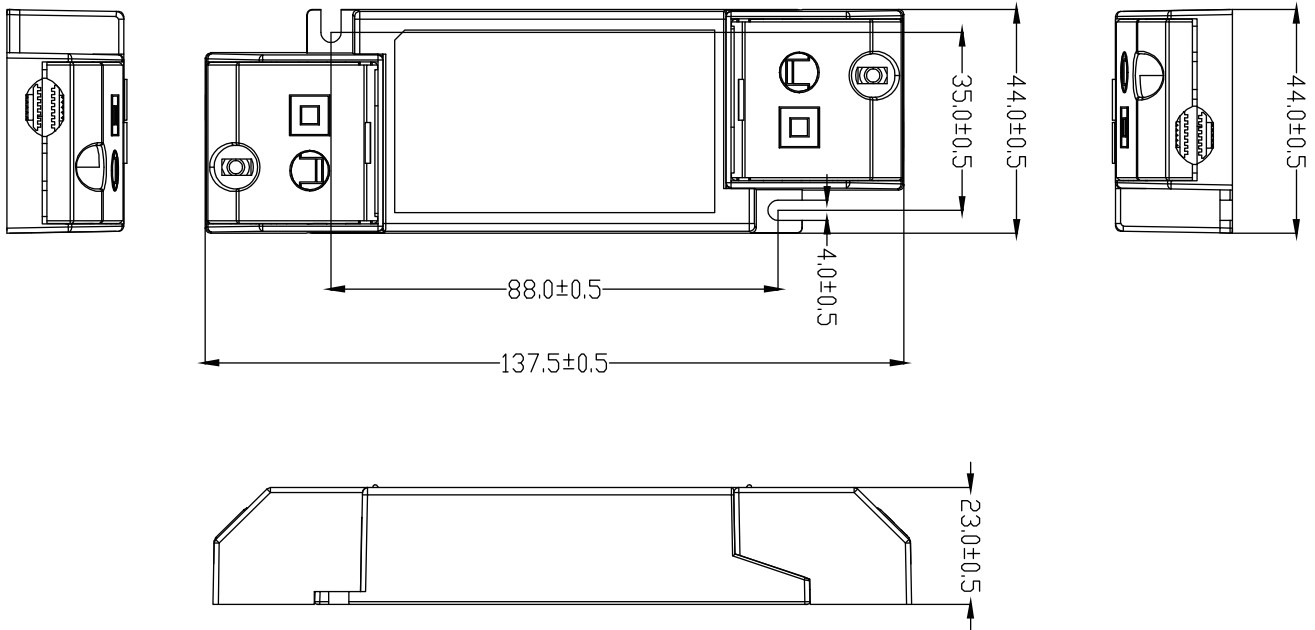
Built in type:



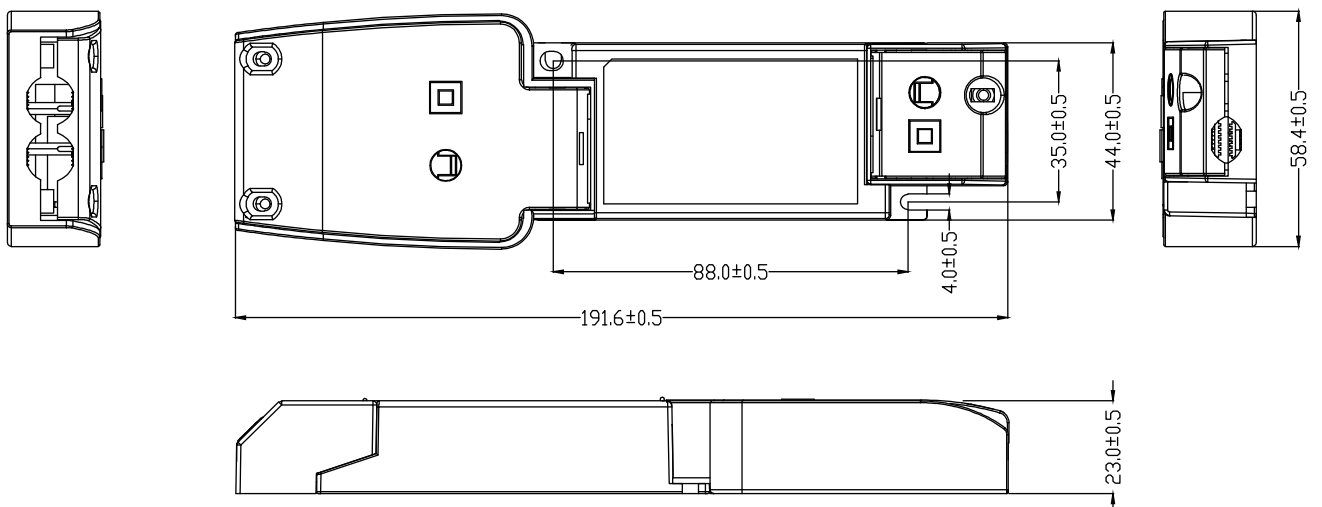
Compatible Small Strain reliefs:SR_CC21-30-44

Compatible Large Strain reliefs:SR_CC21-30-44_3POL

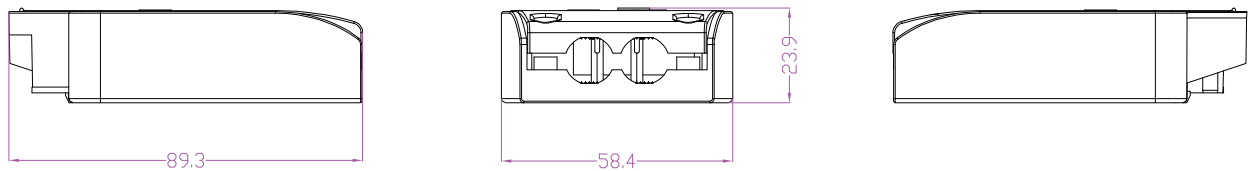
Small Strain reliefs



Large Strain reliefs



Large side cover specifications



Tolerance for dimensions ± 0.1 mm

Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 57.4-59.4 x 22.9-24.9 mm

Wire size: 0.5 - 2.5 mm²

Ambient temperature range: -25...+45 °C

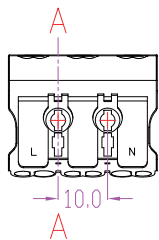
Storage temperature range: -40...+85 °C

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

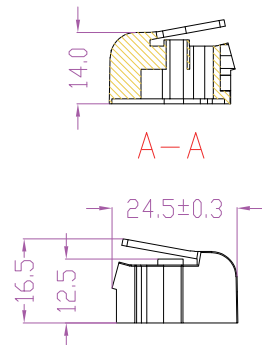
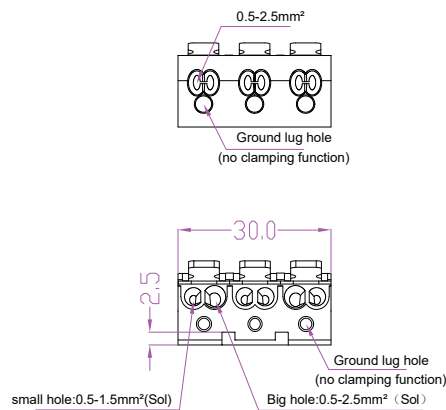
Do not store in wet or humid environment!

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

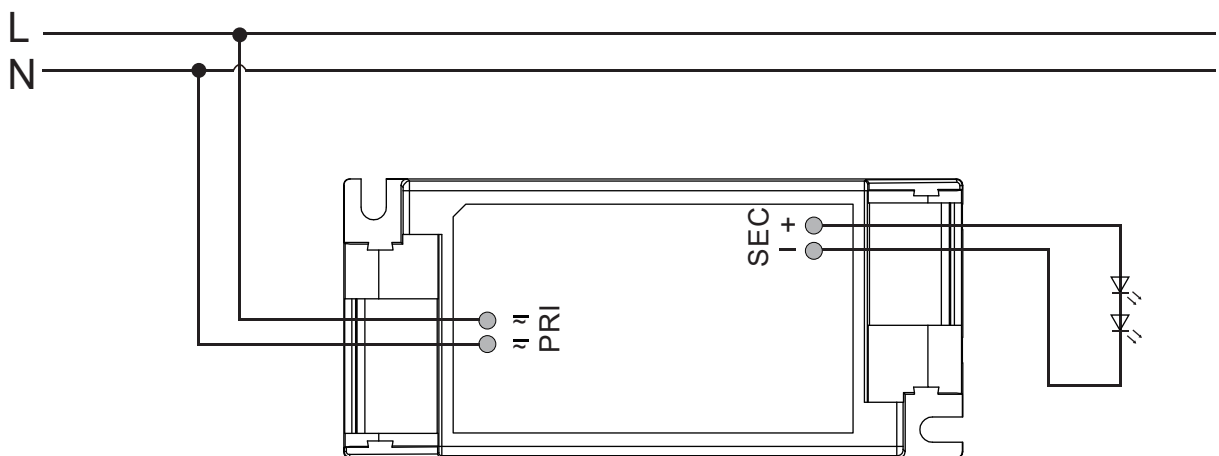
Terminal



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

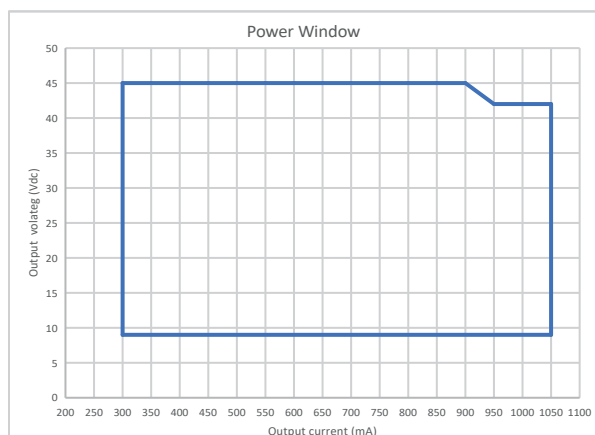


5. Wiring Diagram

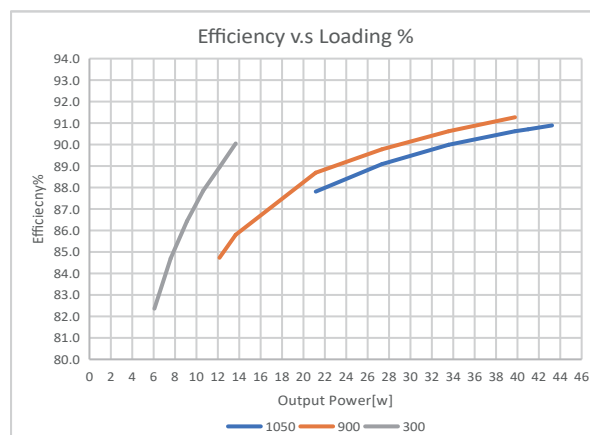


6. Electrical values

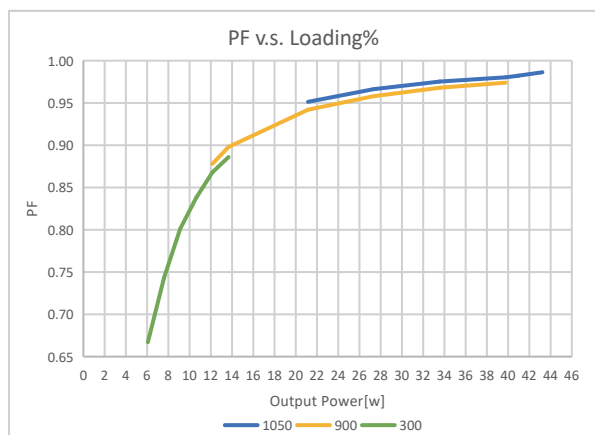
1. Operating power windows



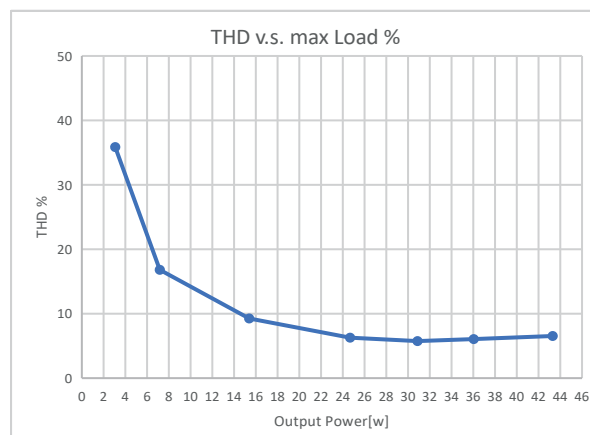
2. Efficiency v.s. Load



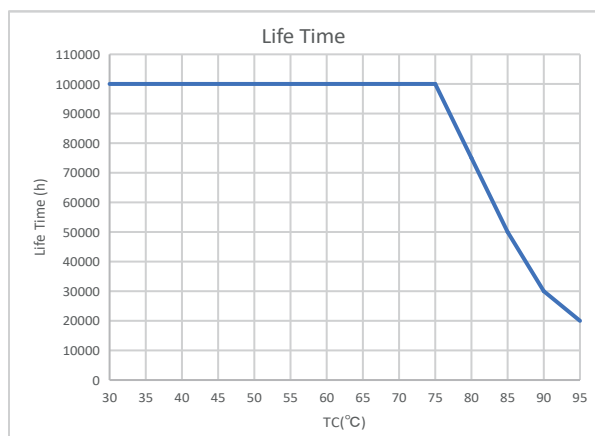
3. PF v.s. Load



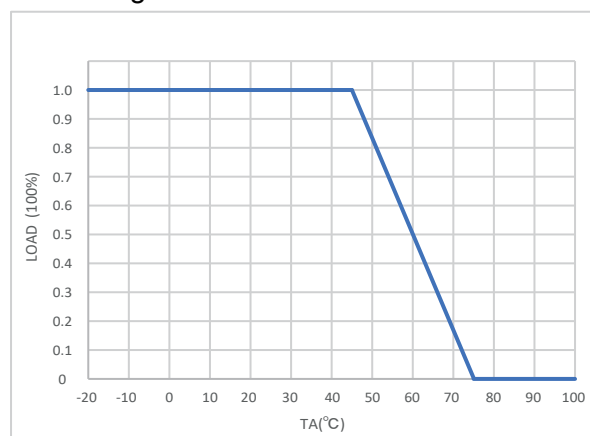
4. THD v.s. Load



5. Life time

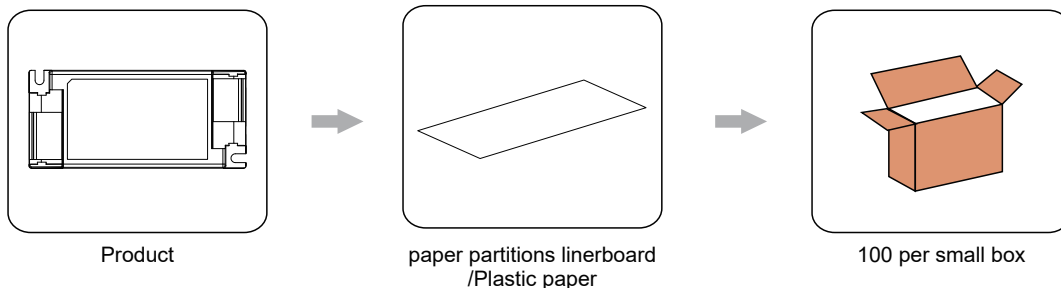


6. Derating



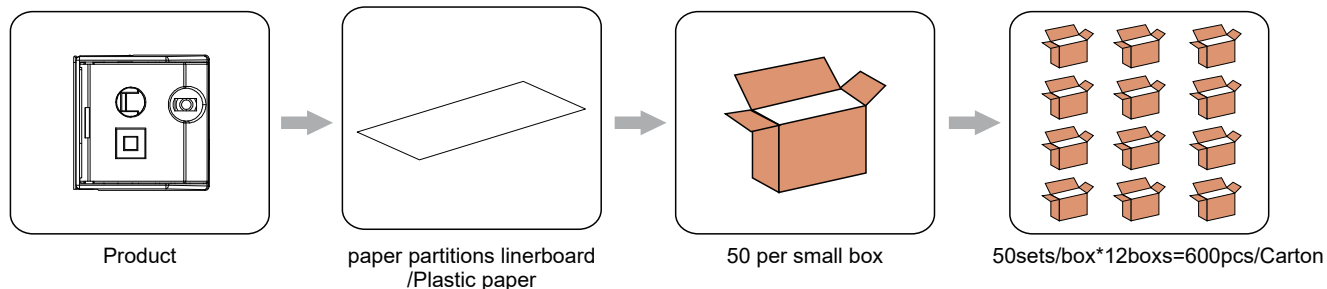
7. Packing information

Built in type



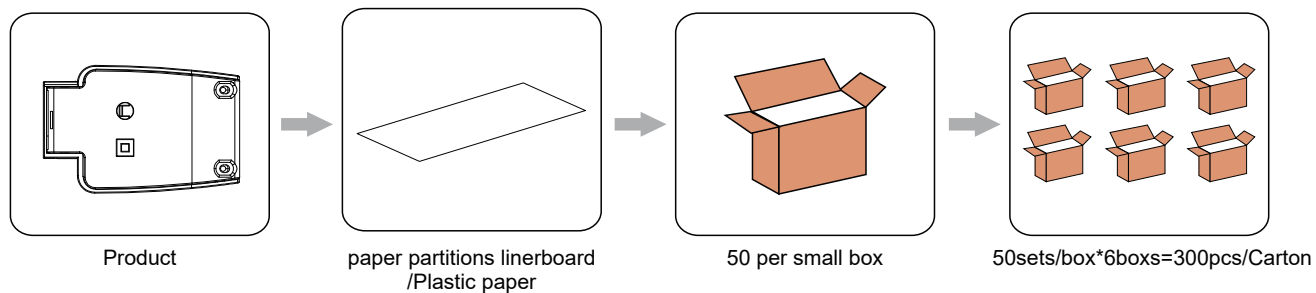
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*130	100	0.127	12.77	13.12

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	0.009	5.64	7.20

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	0.047	14.25	15.81

8. Ordering Data

Model No.	Item Code
CC44W300-1050	126791
SR_CC_21-30-44	147921
SR_CC_21-30-44_3POL	147931

9. REVISION HISTORY

Date	Revision	Remark
2023.11.01	V0.01	Modify fonts, update images, Packing information
2024.04.15	V0.02	Label, Packing information, Electrical values, Dimension, update images
2024.09.15	V0.03	Label, Packing information, Parameters, Dimension, update images
2024.12.02	V0.04	Label, Parameters, Electrical values, update images
2025.01.20	V0.05	Label, update images
2025.08.05	V0.07	Parameters (SEC Wire length) ,Ordering Data