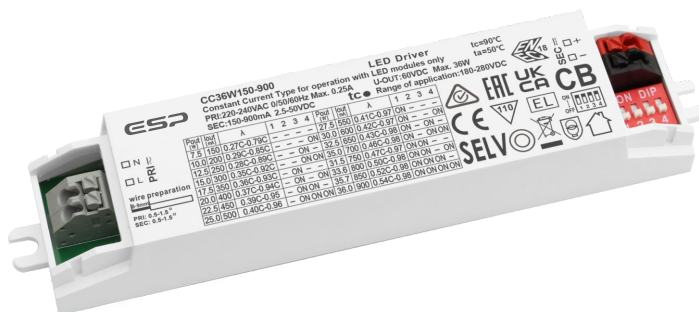


CC36W150-900

Constant Current Driver

Model: CC36W150-900



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC36W150-900	150mA	0.12A	9.3W	0.37-7.50W	0.27-0.79	80%	2.5-50V	60V Max.
	200mA	0.13A	12.3W	0.50-10.00W	0.29-0.85	81%		
	250mA	0.14A	15.2W	0.62-12.50W	0.28-0.89	82%		
	300mA	0.15A	18.0W	0.75-15.00W	0.35-0.92	83%		
	350mA	0.16A	20.8W	0.87-17.50W	0.36-0.93	84%		
	400mA	0.17A	23.5W	1.00-20.00W	0.37-0.94	85%		
	450mA	0.18A	26.1W	1.12-22.50W	0.39-0.95	86%		
	500mA	0.19A	29.0W	1.25-25.00W	0.40-0.96	86%		
	550mA	0.20A	31.6W	1.37-27.50W	0.41-0.97	87%		
	600mA	0.21A	34.4W	1.50-30.00W	0.42-0.97	87%		
	650mA	0.22A	37.3W	1.62-32.50W	0.43-0.98	87%		
	700mA	0.23A	39.7W	1.75-35.00W	0.46-0.98	88%		
	750mA	0.23A	35.7W	1.87-31.50W	0.47-0.97	88%		
	800mA	0.24A	38.1W	2.00-33.60W	0.50-0.98	88%	2.5-42V	
	850mA	0.25A	40.5W	2.12-35.70W	0.52-0.98	88%		
	900mA	0.25A	40.9W	2.25-36.00W	0.54-0.98	88%	2.5-40V	

* 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	≤0.25A max
	Input Power	≤40.9W max
	Power Factor	≥0.98 (230VAC, full load)
	THD	≤8% (230VAC, full load)
	No-load Power Consumption	≤0.5W (230VAC, full load)
	Inrush Current	≤8.5A/16us (230VAC, full load)
	Connected quantity of 10A Breaker	23pcs/type A ; 37pcs/type B ; 59pcs/type C
	Connected quantity of 16A Breaker	37pcs/type A; 59pcs/type B ; 94pcs/type C
	Connected quantity of 20A Breaker	46pcs/type A; 74pcs/type B ; 118pcs/type C
Output	Output Voltage	2.5-50VDC@150-700mA 2.5-42VDC@750-850mA 2.5-40VDC@900mA
	No Load Voltage (Uout)	60VDC Max.
	Output Current	150-900mA (Factory set current of 150mA)
	Max. Output Power	36W
	Efficiency	≥88% (230VAC, full load@max current)
	Output LF current ripple (< 120 Hz)	±3% (Imax-Imin) / (Imax+Imin)
	Current Accuracy	±5%
	Output PstLM (at full load)	≤1
	Output SVM (at full load)	≤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℃ .+90℃
	Tc/Enclosure Temperature	90℃

	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	128*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	2011/65/EU
	Life Time	50000h Tc=90℃
		75000h Tc=85℃
		100000h Tc=80℃
	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






CC36W150-900
Constant Current Type for operation with LED modules only
PRI:220-240VAC 0/50/60Hz Max. 0.25A
SEC:150-900mA 2.5-50VDC

LED Driver
tc=90℃
ta=50℃
U-OUT:60VDC Max. 36W
Range of application:180-280VDC





Pout (W)	Iout (mA)	λ	1	2	3	4	Pout (W)	Iout (mA)	λ	1	2	3	4
7.5	150	0.27C-0.79C	-	-	-	-	27.5	550	0.41C-0.97	ON	-	-	-
10.0	200	0.29C-0.85C	-	-	-	ON	30.0	600	0.42C-0.97	ON	-	-	ON
12.5	250	0.28C-0.89C	-	-	ON	-	32.5	650	0.43C-0.98	ON	-	ON	-
15.0	300	0.35C-0.92C	-	-	ON	ON	35.0	700	0.46C-0.98	ON	-	ON	ON
17.5	350	0.36C-0.93C	-	ON	-	-	31.5	750	0.47C-0.97	ON	ON	-	-
20.0	400	0.37C-0.94C	-	ON	-	ON	33.6	800	0.50C-0.98	ON	ON	-	ON
22.5	450	0.39C-0.95	-	ON	ON	-	35.7	850	0.52C-0.98	ON	ON	ON	-
25.0	500	0.40C-0.96	-	ON	ON	ON	36.0	900	0.54C-0.98	ON	ON	ON	ON

☐ N
☐ L

wire preparation
8-9mm
PRI: 0.5-1.5[□]
SEC: 0.5-1.5[□]













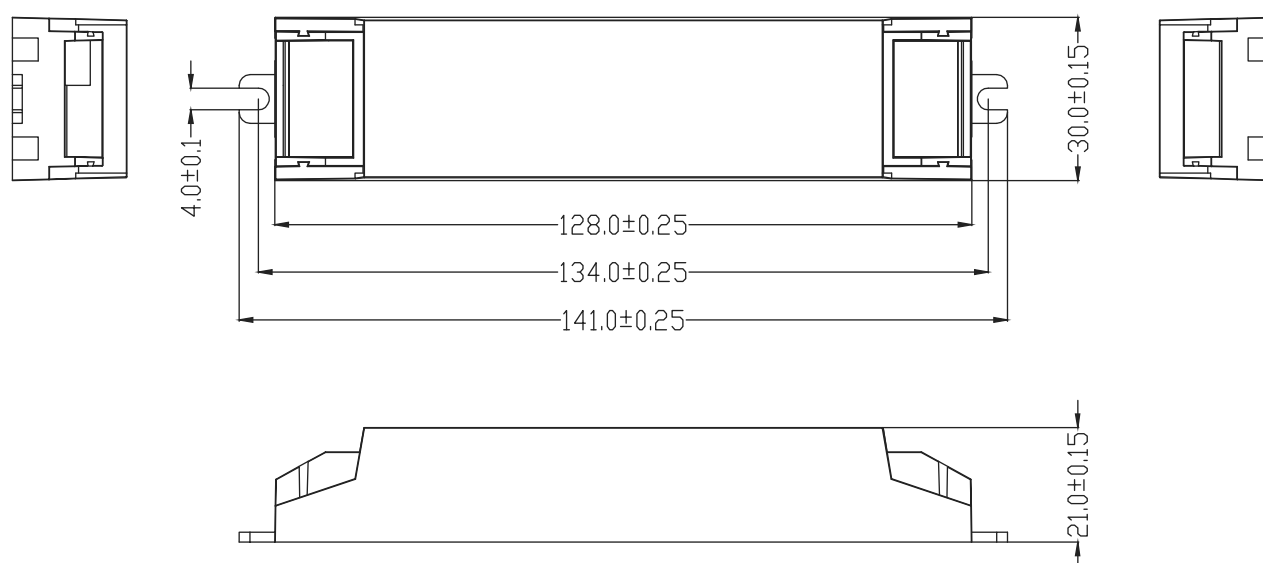


3. Output Current Setting

Output Current	1	2	3	4
150mA	-	-	-	-
200mA	-	-	-	ON
250mA	-	-	ON	-
300mA	-	-	ON	ON
350mA	-	ON	-	-
400mA	-	ON	-	ON
450mA	-	ON	ON	-
500mA	-	ON	ON	ON
550mA	ON	-	-	-
600mA	ON	-	-	ON
650mA	ON	-	ON	-
700mA	ON	-	ON	ON
750mA	ON	ON	-	-
800mA	ON	ON	-	ON
850mA	ON	ON	ON	-
900mA	ON	ON	ON	ON

4. Dimension (Unit: mm)

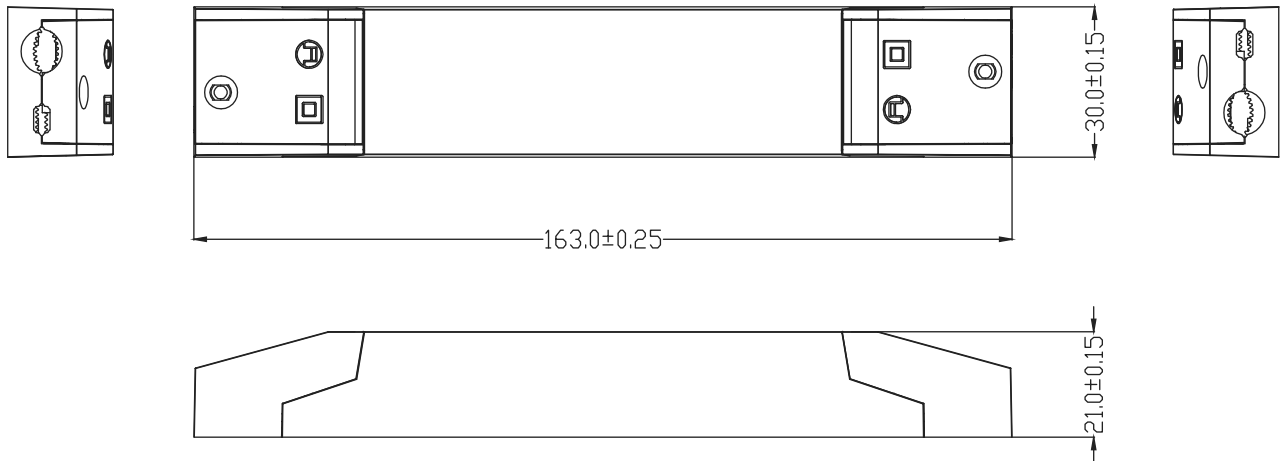
Built in type:



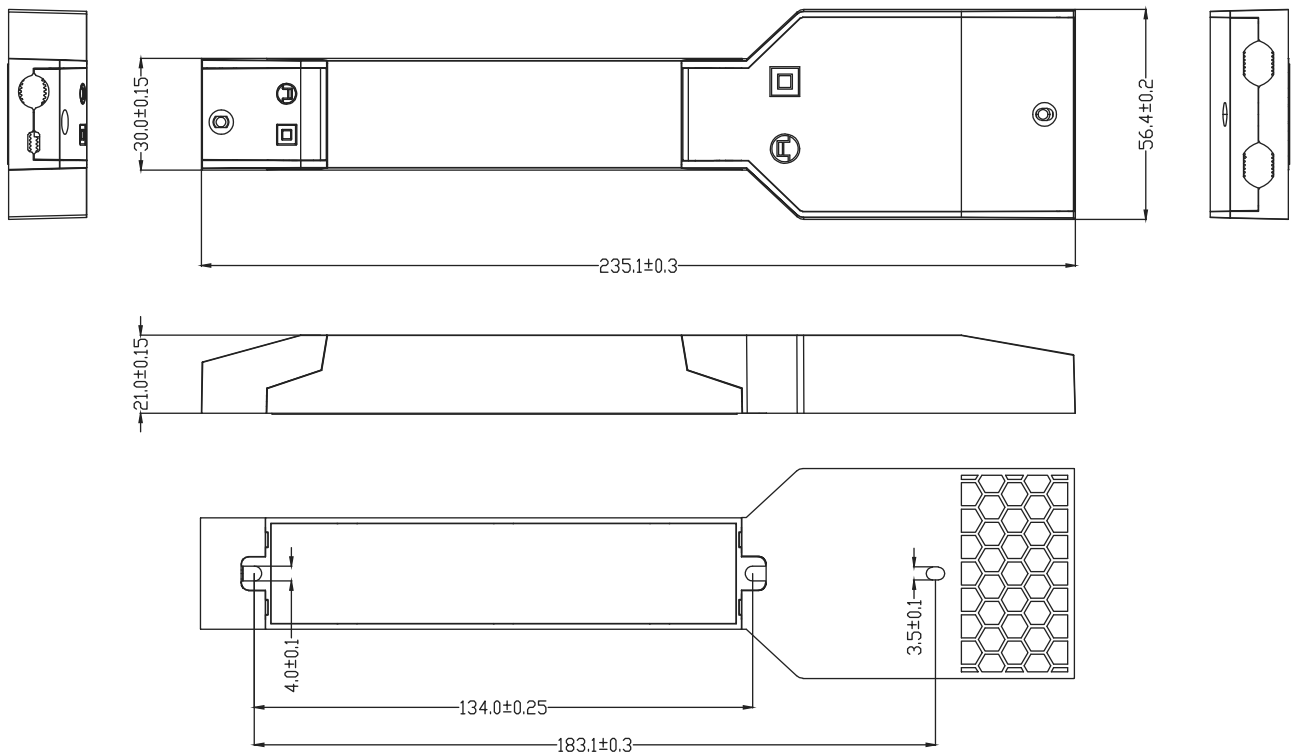
Compatible Small Strain reliefs:SR_CC15_23_36

Compatible Large Strain reliefs:SR_CC15_23_36_3POL

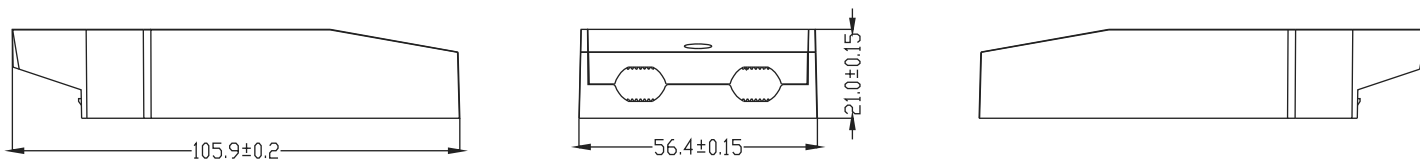
Small Strain reliefs



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

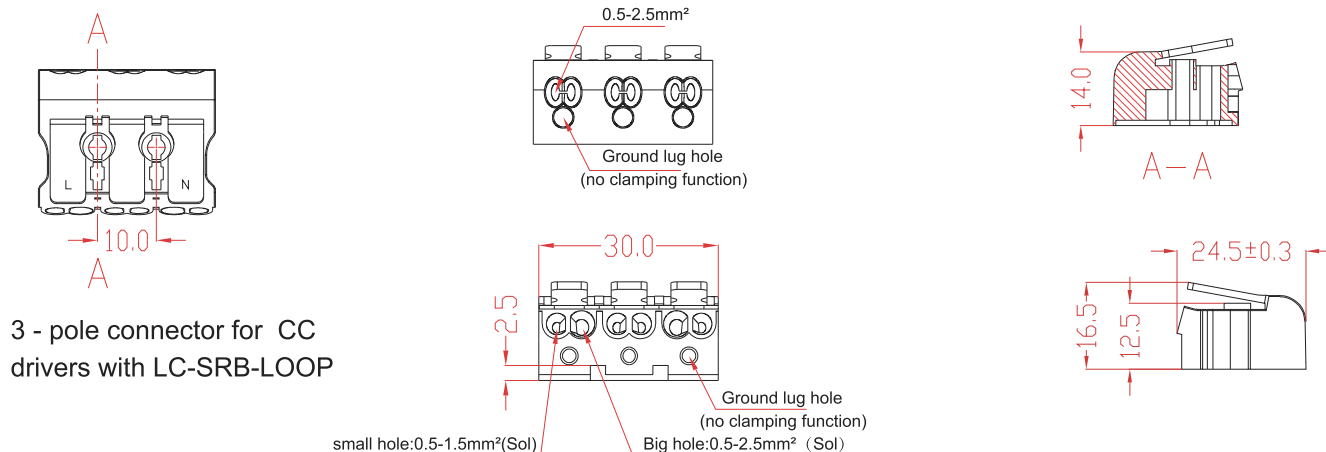
Storage temperature range: -20...+85 °C

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

Do not store in wet or humid environment!

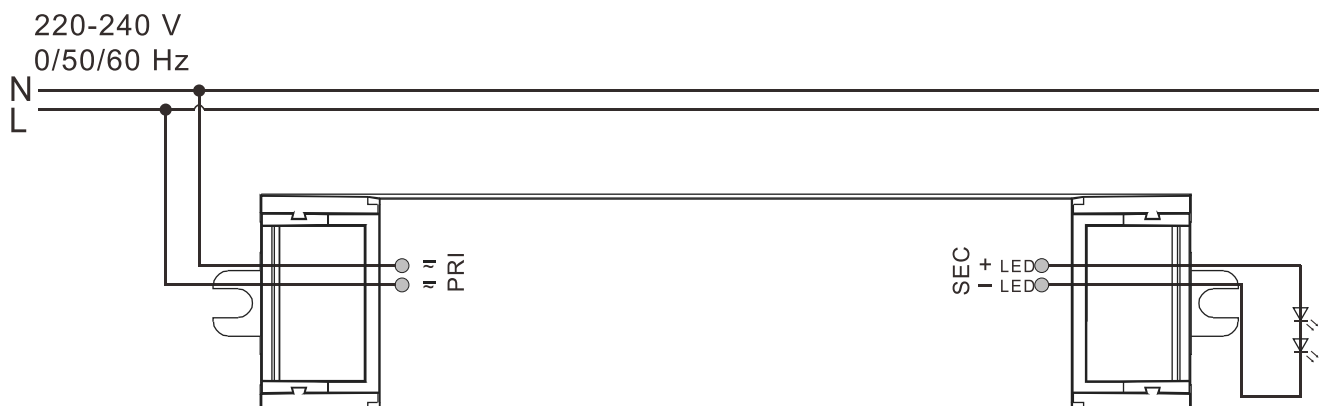
* Unless otherwise stated in the driver datasheet (for independent installation).
Note! Tc max temperature of the driver shall not be exceeded.

Terminal



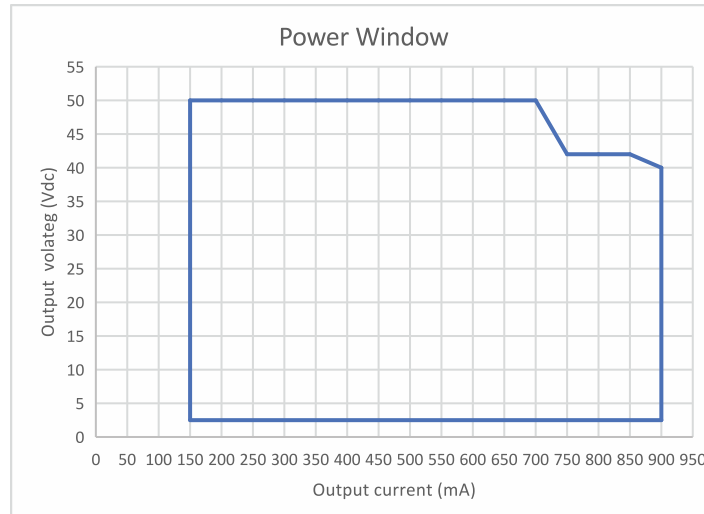
3 - pole connector for CC drivers with LC-SRB-LOOP

5. Wiring Diagram

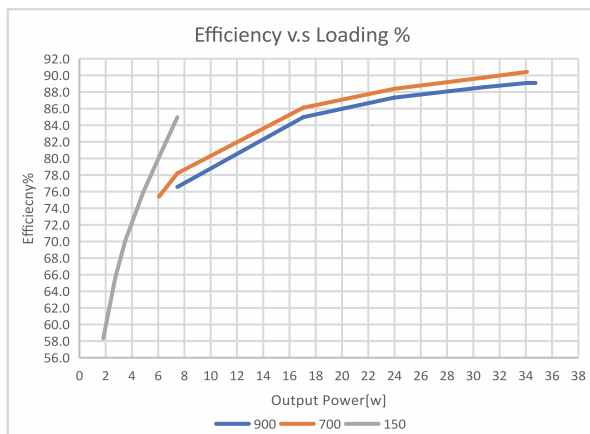


6. Electrical values

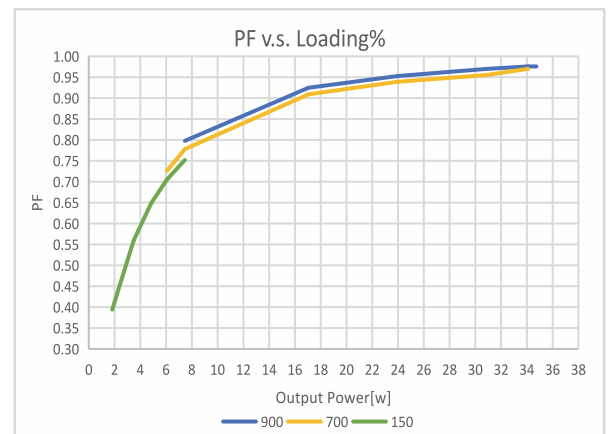
1. Operating power windows



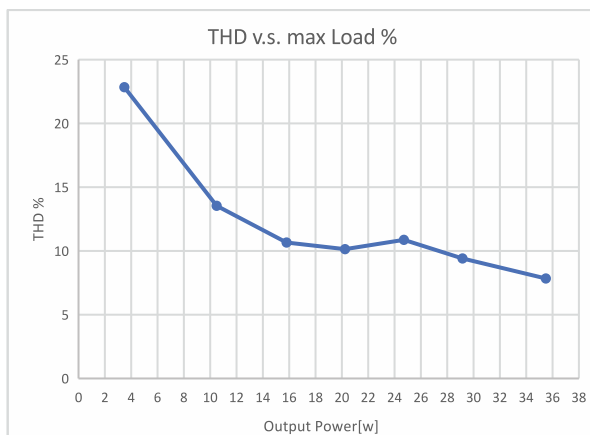
2. Efficiency v.s. Load



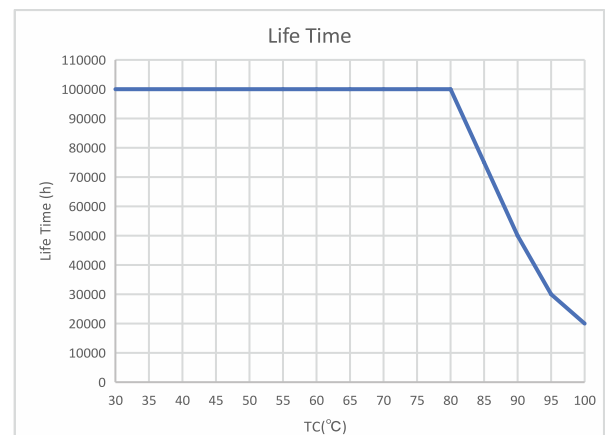
3. PF v.s. Load



4. THD v.s. Load

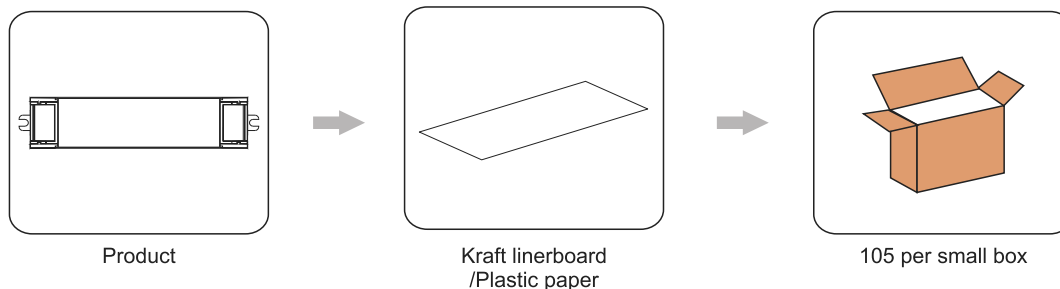


5. Life time



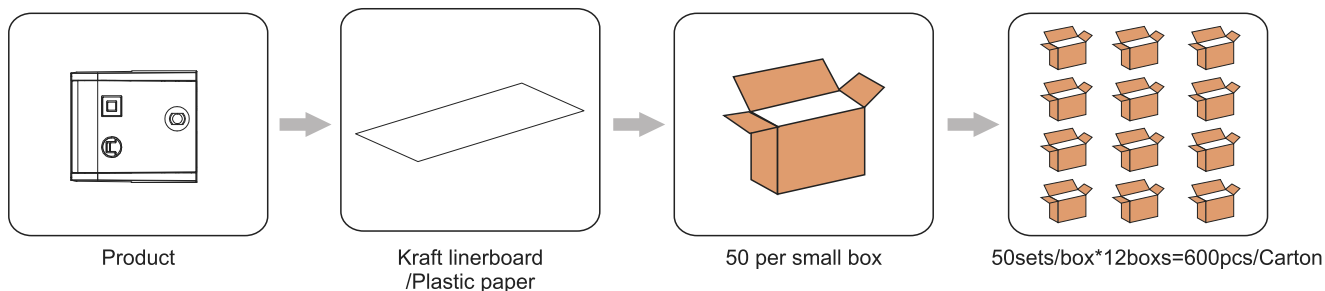
7. Packing information

Built in type



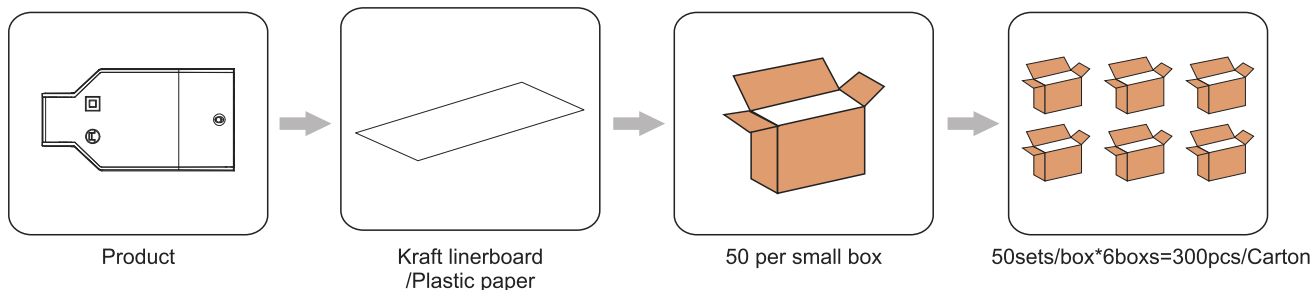
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*130	105	0.100	10.50	10.98

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
2023.08.24	V0.01	Modify fonts, update images, Input Current, PF
2023.10.30	V0.02	update images
2024.04.15	V0.03	Label, Packing information, Electrical values, update images