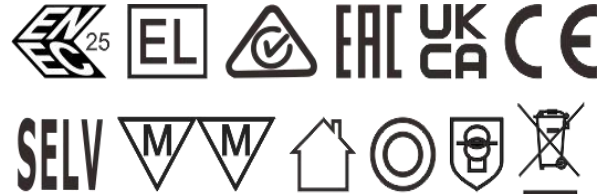




Constant Current Driver

Model: CC21W150-500
CC30W350-700
CC44W700-1050



Model	Item code	Output Current	Output Power Range	PF	Full load efficiency Typical	Output Voltage	No load Voltage
CC21W150-500	123741	150mA	3.0-6.7W	0.70	77.5%	20-45V	59V
		200mA	3.0-9.0W	0.70	82%	15-45V	
		250mA	3.8-11.2W	0.75	84%		
		300mA	4.5-13.5W	0.80	85%		
		350mA	5.3-15.7W	0.85	86%		
		400mA	6.0-18.0W	0.88	87%		
		450mA	6.8-20.2W	0.92	87.5%		
		500mA	7.5-22.5W		88%		
CC30W350-700	124721	350mA	5.25-15.7W	0.92	86%	15-45V	59V
		400mA	6.00-18.0W				
		450mA	12.1-20.2W	0.95	87.5%		
		500mA	13.5-22.5W		88.5%		
		550mA	14.8-24.7W				
		600mA	16.2-27.0W				
		650mA	17.5-29.2W				
		700mA	18.9-31.5W				
CC44W700-1050	126881	700mA	10.5-31.5W	0.95	89%	15-45V	59V
		750mA	11.25-33.7W				
		800mA	12-36.0W				
		850mA	12.75-38.2W				
		900mA	13.5-37.8W		89.5%	15-42V	
		950mA	14.25-39.9W				
		1000mA	15-42.0W				
		1050mA	15.75-44.1W				

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type Add: Output feature	Constant Current Insulated output (SELV)
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Rated Input Voltage (perf. range)	202-254VAC, 186-250VDC
	Range of Input Voltage (oper. safety)	198-264VAC or 176-288VDC
	Frequency	0/50/60Hz perf.range: 47-63Hz, oper..safety: 45-66Hz
	Input Current	≤0.12A (CC21W150-500 230VAC full load) ≤0.18A (CC30W350-700 230VAC full load) ≤0.25A (CC44W700-1050 230VAC full load)
	Input Power	≤26.5W (CC21W150-500) ≤36.2W (CC30W350-700) ≤50W (CC44W700-1050)
	Power Factor	≥0.92 (CC21W150-500 230VAC full load) ≥0.95 (CC30W350-700 230VAC full load) ≥0.95 (CC44W700-1050 230VAC full load)
	THD	@21W ≤20% (230VAC, full load) @30W/44W ≤15% (230VAC, full load)
	Inrush Current	≤20A/160us (CC21W150-500 230VAC full load) ≤20A/150us (CC30W350-700 230VAC full load) ≤25A/210us (CC44W700-1050 230VAC full load)
Output	Current Accuracy	(150mA, 200mA) ±10% (@ 202-254VAC) (250mA, 300mA) ±6% (@ 202-254VAC) (350-500mA) ±8% (@ 202-254VAC 15-30VDC) (350-500mA) ±5% (@ 202-254VAC 30-45VDC) Factory default Setting: 500mA
	Max. Output Power	22.5W (CC21W150-500) 31.5W (CC30W350-700) 44.1W (CC44W700-1050)
	Started Delay Time	≤0.5S (230VAC, any load)
	Current Ripple	±5% (Imax-Imin) / (Imax+Imin)
	PstLM	≤1 (across entire operating window)
	SVM	≤0.4 (across entire operating window)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	I/P to O/P , 3kVac/1min
	Insulation resistance	>100M ohm @ 500VDC
	Touch current	< 250μAp, I/P to O/P or I/P @230V input per IEC 60598-1:2015+A1:2018
Environment	Ta/Operation Temperature	-20...+50°C (@ CC21W150-500) -20...+45°C (@ CC30W350-700) -20...+45°C (@ CC44W700-1050@ 700-1000MA) -20...+40°C (@ CC44W700-1050@ 1050MA)
	Ts/Storage Temperature	-25....+85°C

	Tc (Max)/Enclosure Tc point Temperature	85 °C (CC21W150-500) 80 °C (CC30W350-700) 85 °C (CC44W700-1050)
	Humidity operational/storage	10%....65%/10%....85%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Built-in & Independent
	PRI Wiring connection	0.75-1.5□(solid core and stranded 8-10mm) With K33 end cap & built-in type. 0.5-2.5□(solid core and stranded 8-10mm) With R45 loop-through end cap.
	SEC Wiring connection	0.5-1.5□(solid core and stranded 8-10mm)
	Dimension	Independent:137.5*44*23mm(L*W*H) Built in:97.5*44*23mm(L*W*H)
Standards	Certification	SAA RCM CE EL ENEC UKCA EAC
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,E N62493:2015,AS 61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1
	EMC Standards	EN55015:2019/A11:2019,EN61000-3- 2:2019,EN61000-3-3:2013/A1:2019,EN61547:2009
	Performance	EN62384
	Surge	L-N: 2kV 1.2/50us per IEC61000-4-5
Others	RoHS	Complied to 2011/65/EU
	Life Time	100kh @Tc = 60°C, max. failures= 10% (CC21W150-500) 100kh @Tc = 60°C, max. failures= 10% (CC30W350-700) 100kh @Tc = 70°C, max. failures= 10% (CC44W700-1050)
	Warranty	5years , F.R. <10000ppm
	Noise	≤ 20dB @Background noise ≤15dB, distance = 30cm
	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 theEMC with end products again.	

2. Connected quantities of different current Breaker

CC21W150-500

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	Time (μS)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		25	33	41	51	63	@230VAC	20	160us
TYPE C		42	55	67	84	105			
TYPE D		69	90	110	138	173			

CC30W350-700

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	Time (μS)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		25	33	41	51	63	@230VAC	20	150us
TYPE C		42	55	67	84	105			
TYPE D		51	66	80	101	126			

CC44W700-1050

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current (A)	Time (μS)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		15	20	24	30	38	@230VAC	25	210us
TYPE C		25	33	41	50	63			
TYPE D		37	47	58	74	92			

3. Label




KGP CC21W150-500
123741 Constant Current Type for LED only

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	PIN3	Irated [mA]	Prated [W]	Urated [V]	U _N /f _N	I _N [A]	t _a [°C]	t _c [°C]	λ
OFF	OFF	OFF	150	6.7	20-45		0.05			0.70C
ON	OFF	OFF	200	8.0			0.06			0.70C
OFF	ON	OFF	250	11.2			0.07			0.75C
ON	ON	OFF	300	13.5			0.08			0.80C
OFF	OFF	ON	350	15.7	15-45	220-240V 0/50/60Hz	0.09	-20...50	85	0.85C
ON	OFF	ON	400	18.0			0.10			0.88C
OFF	ON	ON	450	20.2			0.11			0.92C
ON	ON	ON	500	22.5			0.12			0.92C

PRI ≈

● L UK CA

● N

OFF-ON

1 2 3

CE ENEC SELV EL

wire preparation 18mm

PRI: 0.75-1.5s
SEC: 0.5-1.5s

Made in China







KGP CC30W350-700
124721 Constant Current Type for LED only

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

PIN1	PIN2	PIN3	Irated [mA]	Prated [W]	Urated [V]	U _N /f _N	I _N [A]	t _a [°C]	t _c [°C]	λ
OFF	OFF	OFF	350	15.7			0.09			0.92C
ON	OFF	OFF	400	18.0			0.10			
OFF	ON	OFF	450	20.2			0.11			
ON	ON	OFF	500	22.5			0.12			
OFF	OFF	ON	550	24.7	15-45	220-240V 0/50/60Hz	0.14	-20...50	80	0.95
ON	OFF	ON	600	27.0			0.15			
OFF	ON	ON	650	29.2			0.16			
ON	ON	ON	700	31.5			0.18			

PRI ≈

● L UK CA

● N

OFF-ON

1 2 3

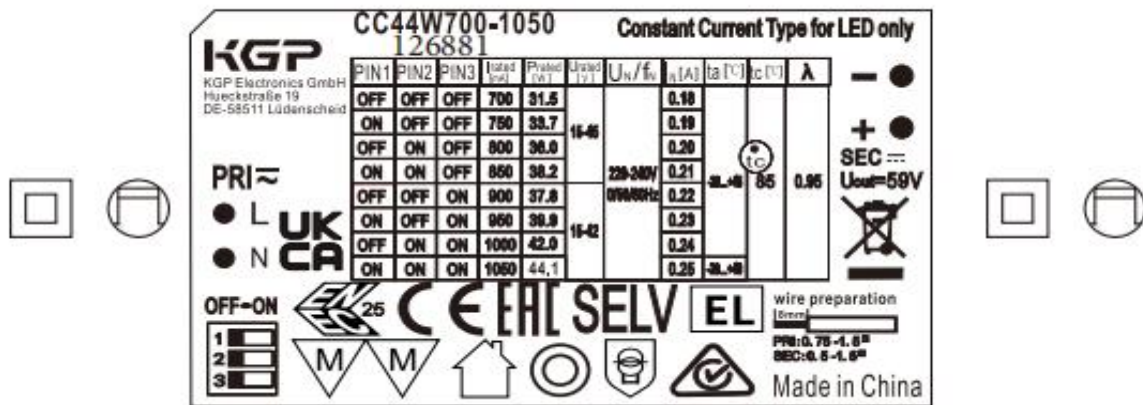
CE ENEC SELV EL

wire preparation 18mm

PRI: 0.75-1.5s
SEC: 0.5-1.5s

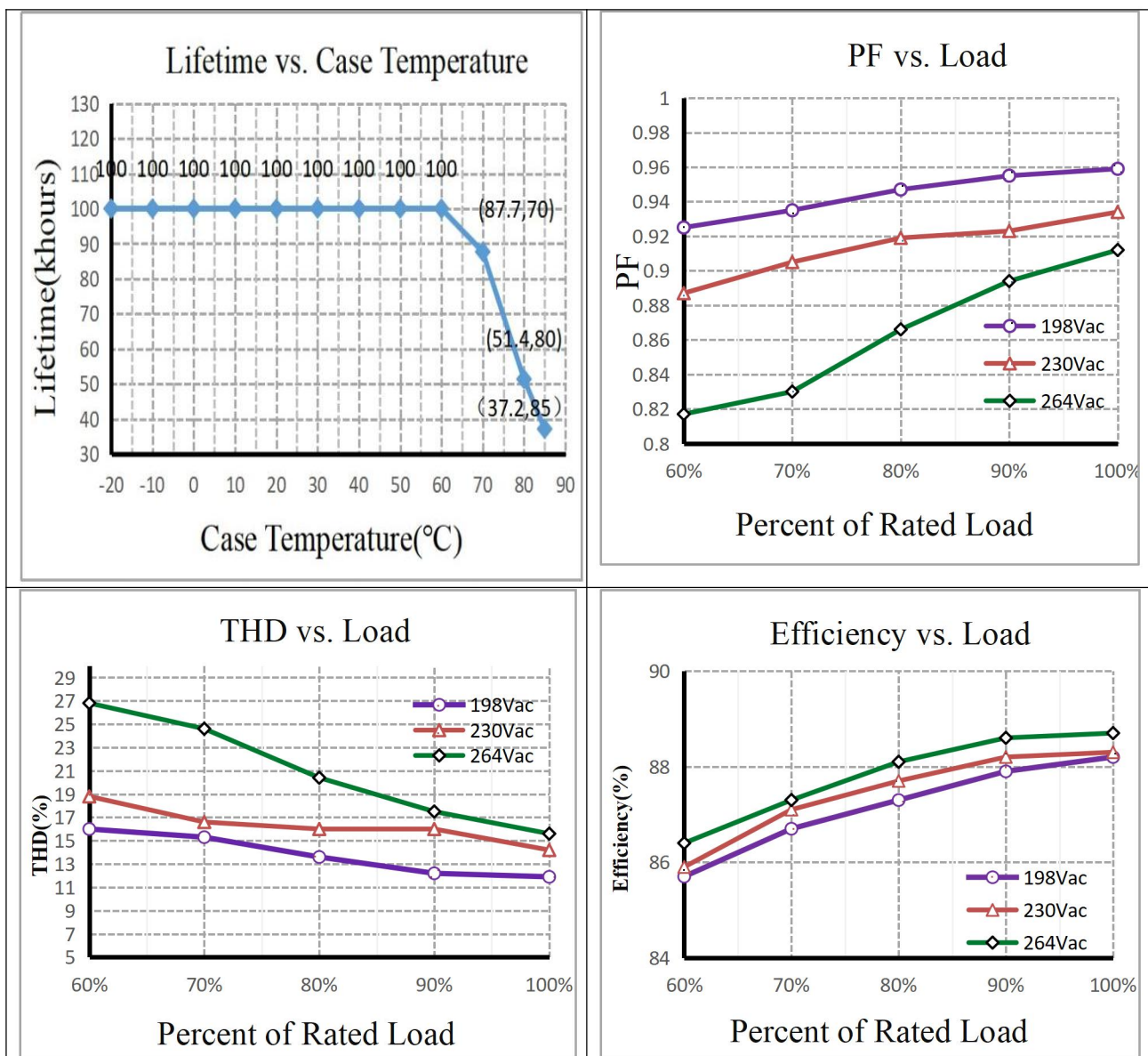
Made in China



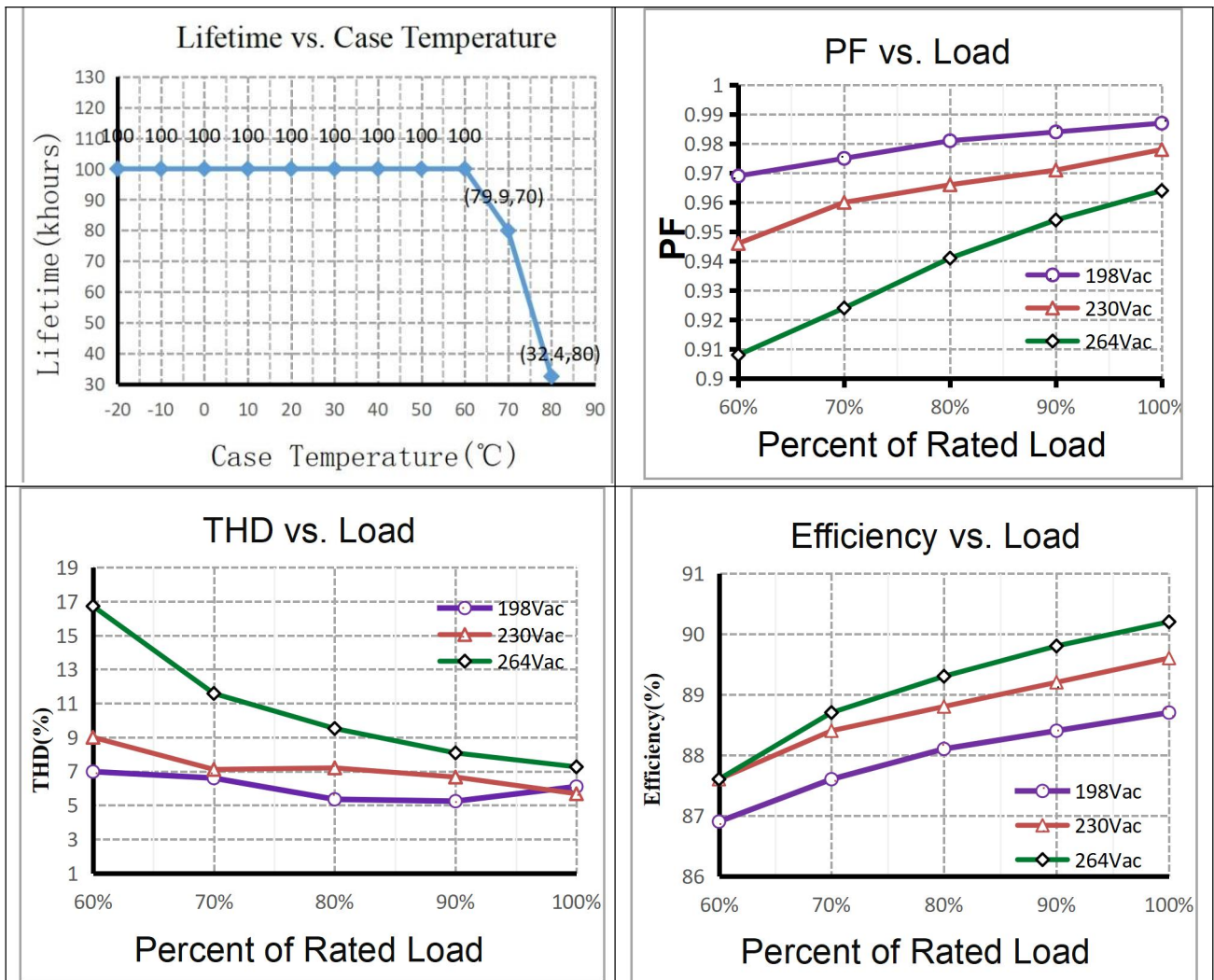



4. Electrical values

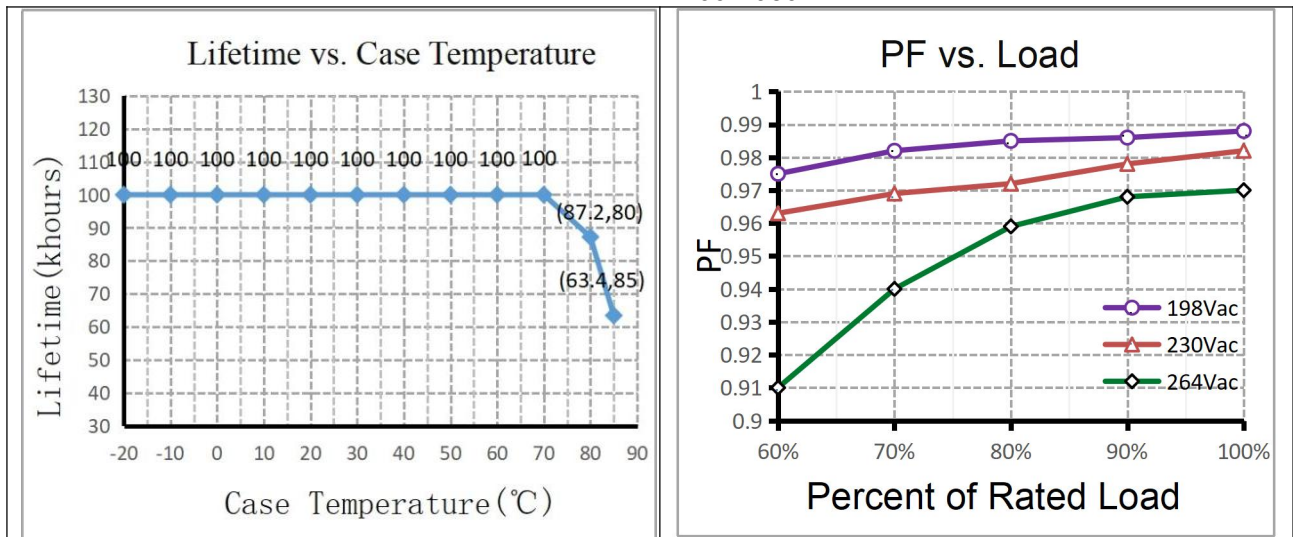
CC21W150-500

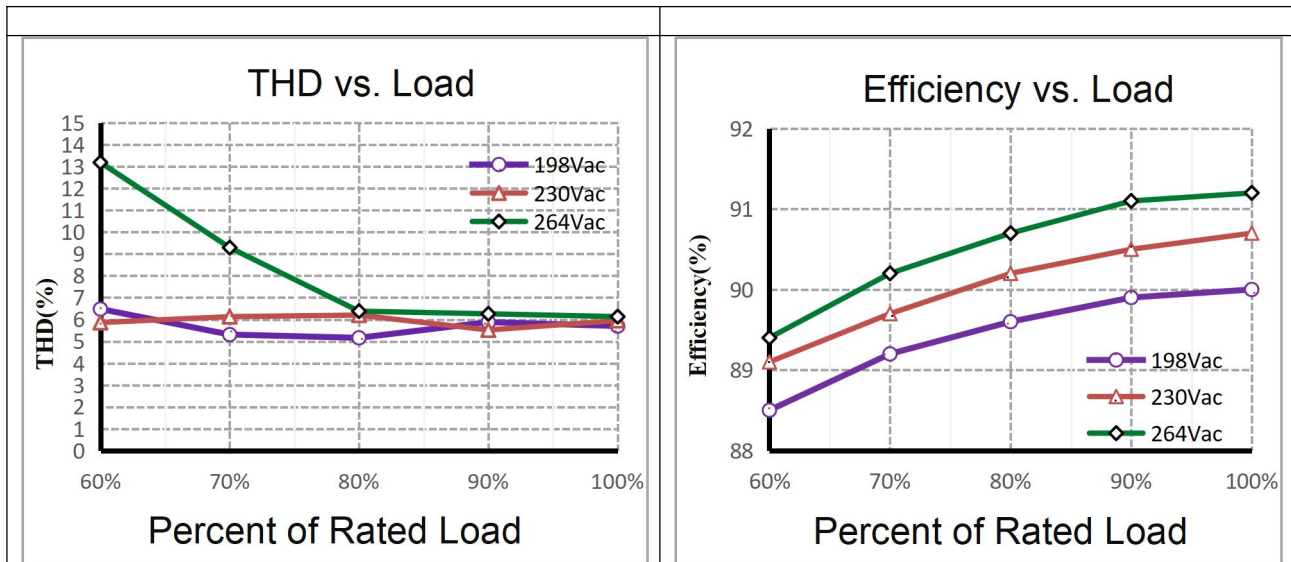


CC30W350-700



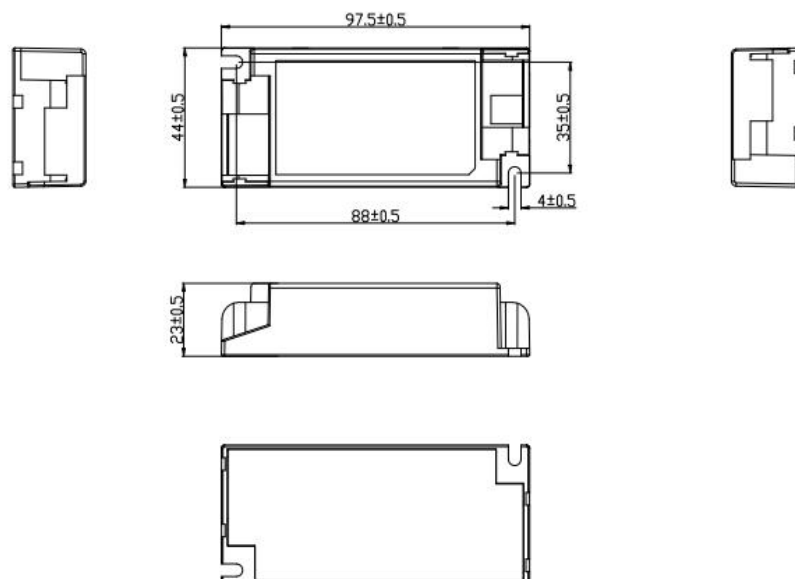
CC44W700-1050



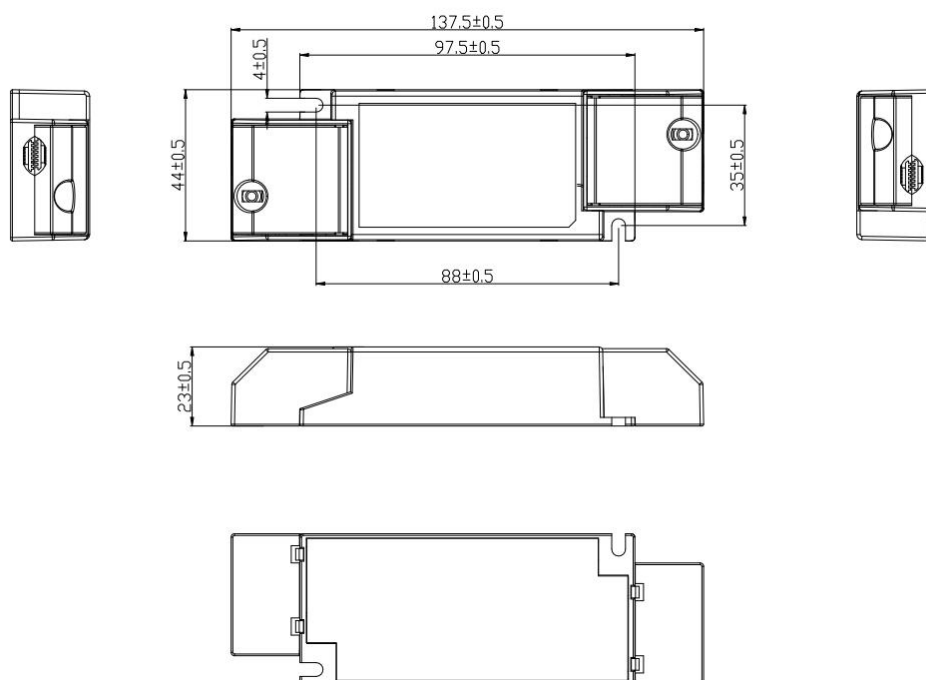


5. Dimensions (Unit: mm)

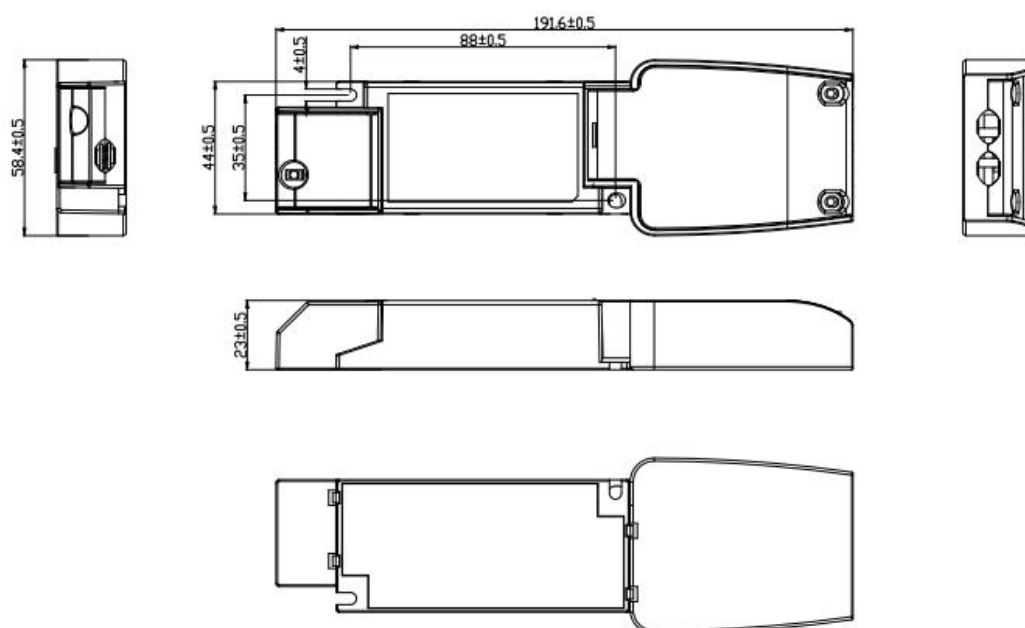
SC (A)



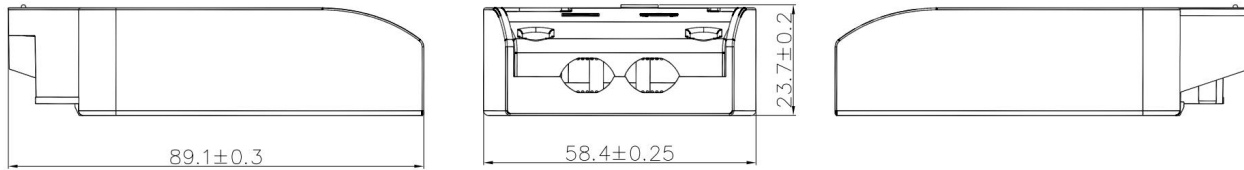
Small side cover(B)



Large side cover(C):



Large Strain reliefs specifications



Mechanical, Operating & Storage Conditions

Driver cross-section dimensions: 58.15-58.65 x 23.5-23.9 mm

Wire size: 0.5 - 2.5 mm²

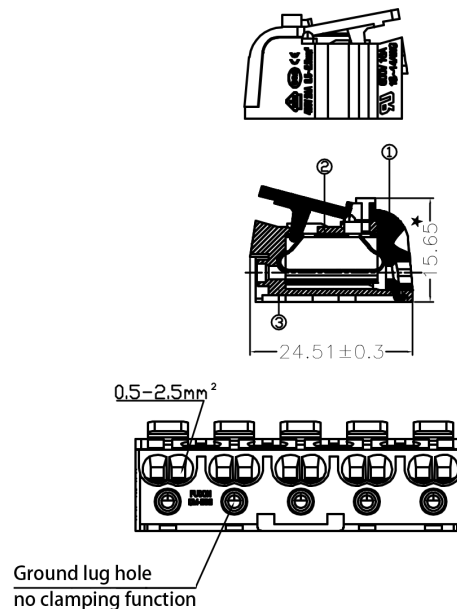
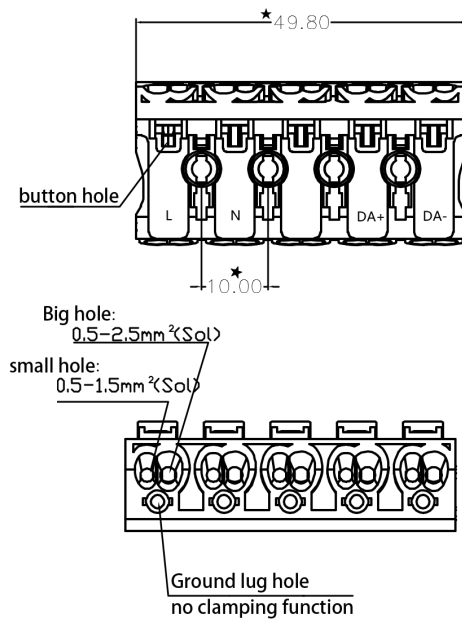
Ambient temperature range: -20...+50 °C

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

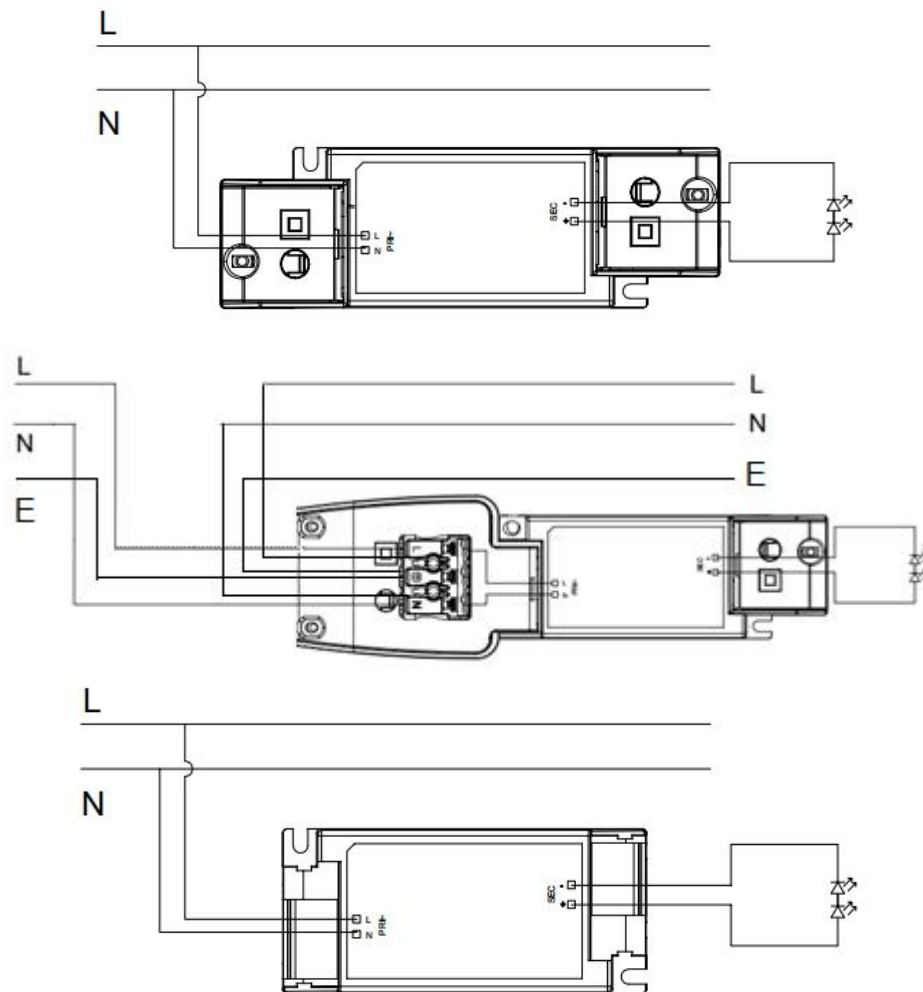
Assembly temperature range: +5...+30 °C Do not store in wet or humid environment!

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

Terminal



6. Wiring Diagram



7. Packing information

Small side cover(B)

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	CC21W150-500	447*240*200	105	0.088	9.24	10.12
	CC30W350-700		105	0.09	9.45	10.54
	CC44W700-1050		105	0.105	11.025	12.13

Large side cover(C):

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	CC21W150-500	447*240*200	63	0.123	7.749	8.63
	CC30W350-700		63	0.125	7.875	8.74
	CC44W700-1050		63	0.14	8.82	9.71

SC (A)

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
industrial	CC21W150-500	410*270*160	140	0.068	9.52	10.61
	CC30W350-700		140	0.070	9.8	10.94
	CC44W700-1050		140	0.085	11.9	13.04

8. Ordering Data

Model No	Item Code
CC21W150-500	123741
CC30W350-700	124721
CC44W700-1050	126881
SR_CC21-30-44-80	147921
SR_CC21-30-44-80_3POL	147931
SR_CC21-30-44-80_5POL	147941

9. 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.)

10. REVISION HISTORY

DATE	VER	REMARK
2024-10-18	V1.0	Initial release.
2025-06-24	V1.1	Update label drawings
2025-09-25	V1.2	Insert item code ,ordering number and update label and picture