



Constant Current Driver

Model: CC8WXXX



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC8W120	120mA	0.05A	7W	3.1-4.8W	0.9	81%	26-40V	55V
CC8W150	150mA	0.05A	9W	3.9-6W	0.9	82%	26-40V	55V
CC8W180	180mA	0.06A	10W	4.7-7.2W	0.9	82%	26-40V	55V
CC8W200	200mA	0.06A	11W	5.2-8W	0.9	82%	26-40V	55V
CC8W250	250mA	0.05A	8W	3.3-6.75W	0.9	80%	18-27V	40V
CC8W300	300mA	0.06A	9W	3.9-8.1W	0.9	83%	18-27V	40V
CC8W350	350mA	0.06A	10W	4.6-7.35W	0.9	81%	13-21V	35V
CC8W400	400mA	0.06A	11W	5.2-8W	0.9	80%	13-20V	35V
CC8W450	450mA	0.06A	12W	5.9-8.55W	0.9	82%	13-19V	35V
CC8W500	500mA	0.06A	13W	6.5-9.5W	0.9	82%	13-19V	35V

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Frequency	50/60Hz
	Input Current	≤0.06A(198VAC, full load)
	Input Power	≤13W(230VAC, full load)
	Power Factor	≥0.9(230VAC, full load)
	THD	≤15%(230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤5A/350us (230VAC, Full-load)
Output	Connected quantity of 16A Breaker	30pcs/type B ; 48pcs/type C @ 230Vac
	Current Accuracy	±5%(400MA, 450MA, 500MA) ±6%(250MA,300MA, 350MA) ±7.5%(200MA) ±8%(150MA, 180MA) ±10%(120MA)
	Max. Output Power	9.5W

	Started Delay Time	≤0.5S (230VAC, full load)
	Current Ripple (< 120 Hz)	±5% (Imax-Imin) / (Imax+Imin)
	PstLM	≤1
	SVM	≤0.4
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
	Leakage current	I/P to O/P < 250 μ A
Environment	Ta/Operation Temperature	-20...+50℃
	Ts/Storage Temperature	-25...+80℃
	Tc/Enclosure Temperature	80 ℃
	Humidity	10% 90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Direct Lead
	Installation	Build-in
	PRI Wire preparation	0.5-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	38X30X20mm (L*W*H)
Standards	Certification	TUV、CE、SAA、CCC
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015,AS61347.2.13:2018,AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019, EN IEC 55015:2019/A11:2019, EN IEC 61000-3-2:2019, EN 61000-3-3:2013/A1:2019, EN61547:2009,
	Performance	EN62384
	Surge	L-N/1KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50,000h @40℃ (Ta) / @80℃ (Tc)
	Warranty	5years , F.R. < 10000ppm
	Noise	≤ 24dB @Background noise ≤18dB , Interval≥15cm

Remark

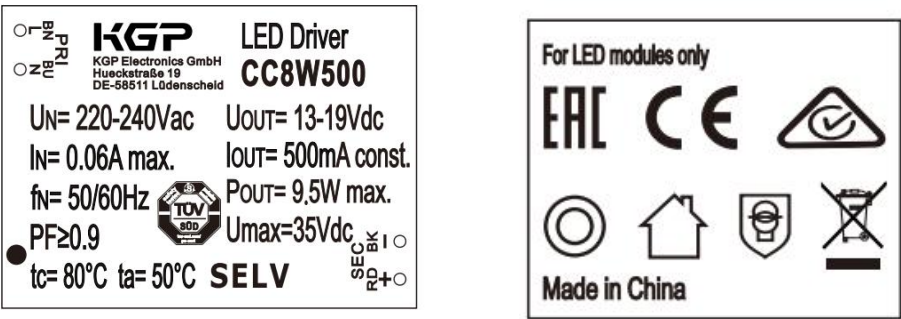
All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.

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

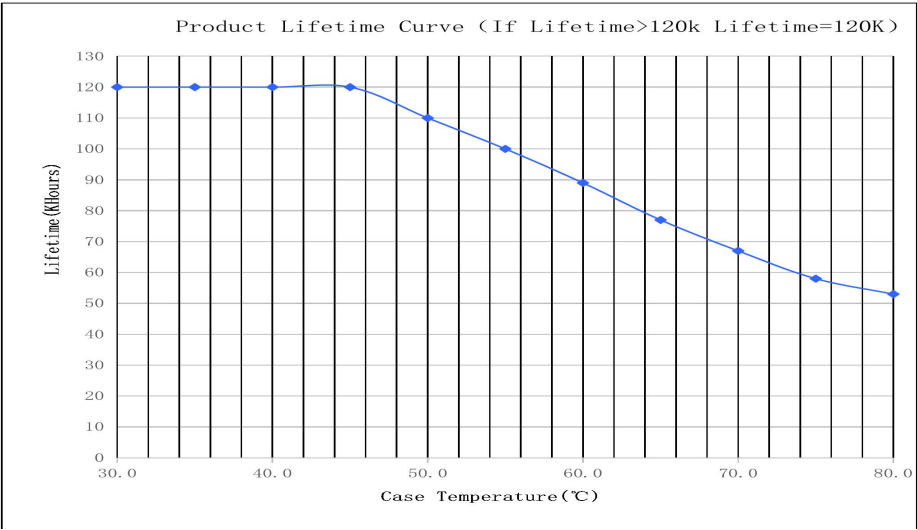
2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		120	156	192	240	300	@230VAC	5	350us
TYPE C		192	250	307	384	480			
TYPE D		307	399	492	614	768			

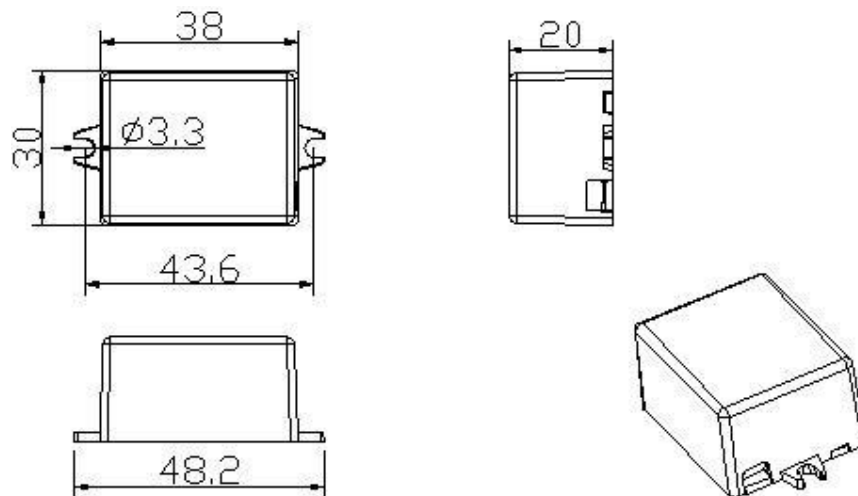
3. Label (For example)



4. Lifetime curve



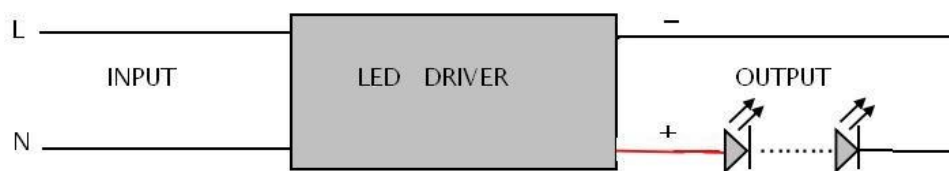
5. Dimension (Unit: mm)



6. Packing information

Packing way	Model	Carton L*W*H(mm)	Pcs/ Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
With white box and manual	CC8WXXX	457*250*220	205	0.05	10.25	10.95
Without white box and manual		420*280*180	240	0.05	12	12.75

7. Wiring Diagram



8. 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.)



9. REVISION HISTORY

DATE	VER	REMARK
2023-01-10	V1.0	Initial release.