

Constant Current Driver

Model:CC21W150-500



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
CC21W150-500	150mA	0.05A	8.2W	2.3-6.8W	0.80	80%	20-45V	55V
	200mA	0.06A	11.3W	3.0-9.0W	0.83	80%	15-45V	
	250mA	0.07A	13.4W	3.8-11.3W	0.85	83%		
	300mA	0.08A	15.9W	4.5-13.5W	0.92	83%		
	350mA	0.09A	18.1W	5.3-15.8W	0.93	85%		
	400mA	0.10A	20.7W	6.0-18.0W	0.95	86%		
	450mA	0.11A	23.0W	6.8-20.3W		88%		
	500mA	0.12A	25.6W	7.5-22.5W				

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

1. Parameters

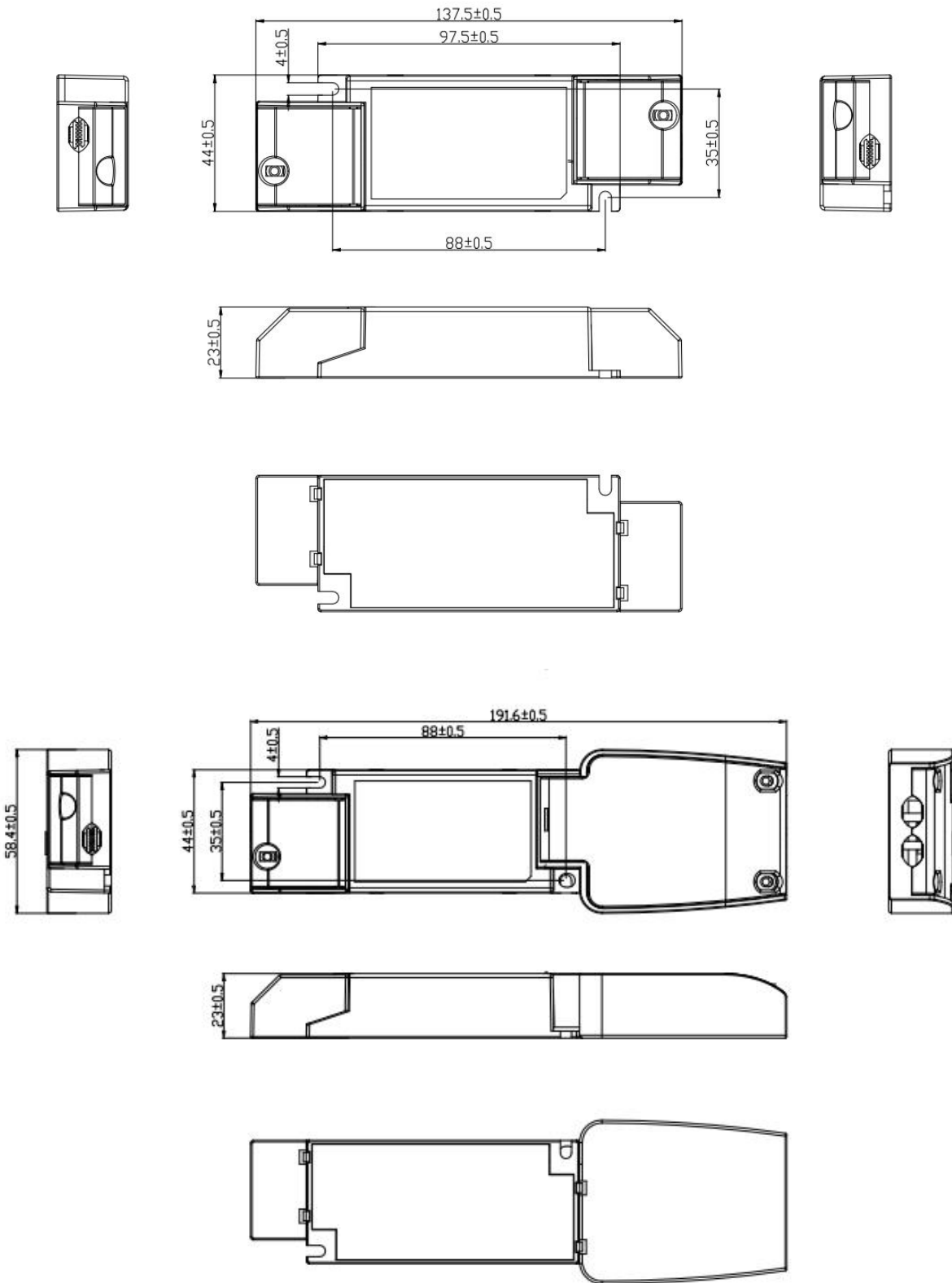
Category	Item	Technical Norm
Features	Output Type	Constant Current
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	198-264VAC
	Range of DC Input Voltage	170-276VDC
	Frequency	50/60Hz
	Input Current	≤0.130A
	Input Power	≤23W
	Power Factor	≥0.90 (230VAC , fullload)
	THD	≤ 10% (230VAC , fullload)

	No-load Power Consumption	≤0.5W @230VAC
	Inrush Current	≤21A/ 180us (230VAC,Full-load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	18pcs/type A; 29pcs/type:B; 46pcs/typeC 28pcs/type A; 46pcs/type:B; 73pcs/typeC 35pcs/type A; 57pcs/type:B; 91pcs/typeC
Output	Current Accuracy	±5%
	Max. Output Power	22.5W
	Started Delay Time	≤0.5S (230VAC , full load)
	Current Ripple	±3% (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 μA
Environment	Ta/ Operation Temperature	7-22.5W: -20 ... +45℃;
	Ts/ Storage Temperature	-40 ... +85℃
	Tc/ Enclosure Temperature	8 0 ℃
	Humidity	10%.... 90%RH
	Atmosphere	86- 108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in & Independent
	PRI Wire preparation	0.5- 1.5 □
	SEC Wire preparation	0.5- 1.5 □
	Dimension	Independent:137.5*44*23mm (L*W*H) Built in:97.5*44*23mm(L*W*H)
Standards	Certification	CE/ENEC
	Safety Standards	EN61347- 1,EN61347-2- 13
	EMC Standards	EN55015,EN61000-3-2,EN61000-3-3,EN61547
	Performance	EN62384
	Surge	L-N/ 1.5KV
Others	RoHS	Complied to 2011/65/EU
	Life Time	50000h Tc=80℃
		75000h Tc=75℃
		100000h Tc=70℃
Warranty	5years , F.R. <10%	

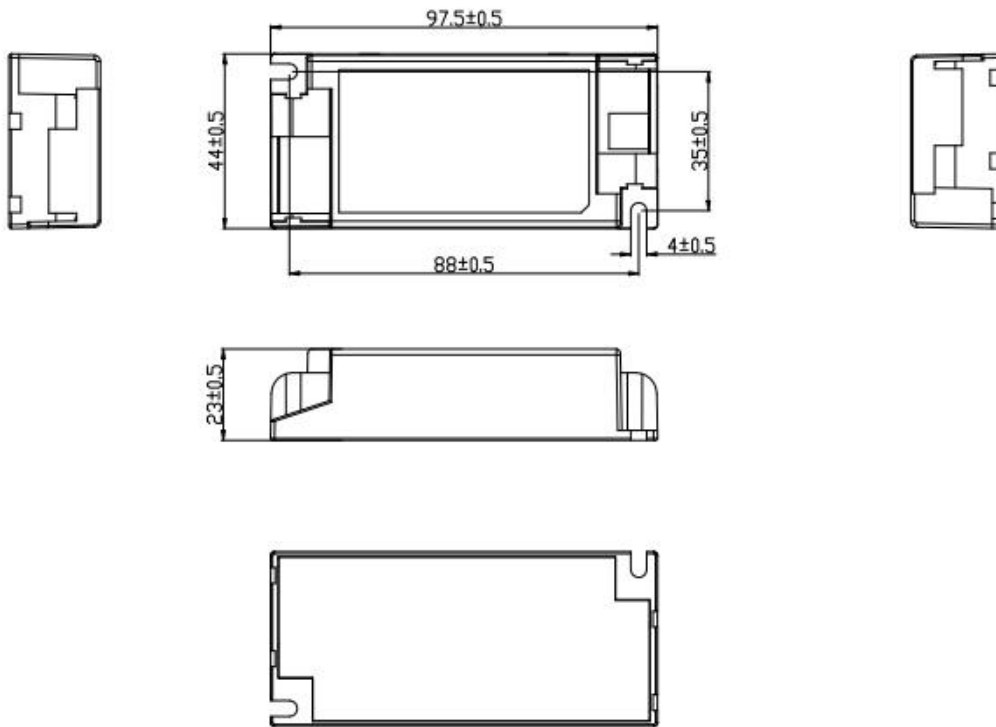
Remark:

- 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.
- Please make sure Tc under Lifetime condition when long term operate under DC input.
- Light output level in DC operation: (factory default = 100 %, EOFi = 1).

2. Dimension



Built in type:



3. Label

KGP		CC21W150-500		Constant Current LED Power Supply									
KGP Electronics GmbH Hueckstraße 19 DE-51511 Lüdenscheid		PIN1	PIN2	PIN3	I _{rated} [mA]	P _{rated} [W]	U _{rated} [V]	U _N /f _N	I _N [A]	t _a [°C]	t _c [°C]	λ	
		OFF	OFF	OFF	150	6.8	20-45	220-240V 50/60Hz	0.05	-20...+45	tc	0.80	- ●
		ON	OFF	OFF	200	9.0	15-45		0.06			0.83	+ ●
		OFF	ON	OFF	250	11.3			0.07			0.85	
		ON	ON	OFF	300	13.5	0.08		0.92				
		OFF	OFF	ON	350	15.8	0.09		0.93				
		ON	OFF	ON	400	18.0	0.10						
		OFF	ON	ON	450	20.3	0.11						
		ON	ON	ON	500	22.5	0.12						

PRI ~
 ● L
 ● N

OFF → ON
 1
 2
 3

EV 05
 CE
 EAC
 EL

wirepreparation
 8mm wire 0.5-1.5 □

Made in China

SEC = U_{out} = 55V
 LED Only
 SELV

4. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*150	100	0.084	8.4	9.6

Small side cover

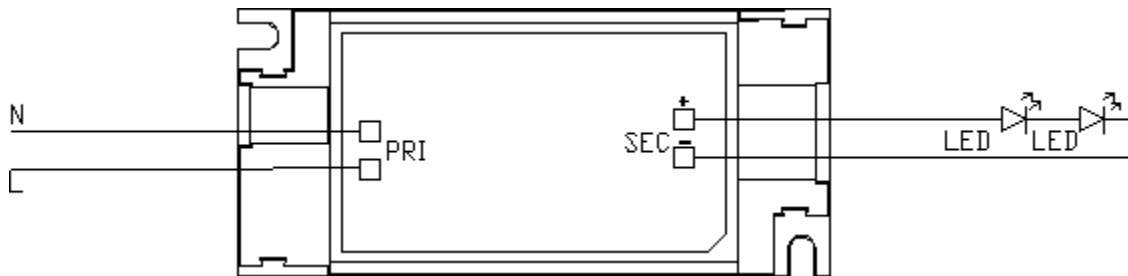
Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
370*365*295	1000	0.0087	8.7	10

Large side cover

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
375*305*295	200	0.041	8.2	9.4

5. Wiring Diagram

Built in type:



6. Revision history

Date	Version	Remark
2023-06-27	V1.0	Initial release.
2023-07-19	V2.0	Secondary version