

Constant Current Driver

Model:CC44W300-1050



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (typ.)*	Output Voltage	No load Voltage
CC44W300-1050	300mA	0.12A	15.73W	2.70-13.50W	0.86	85.8%	9-45V	59V
	350mA	0.13A	18.20W	3.15-15.75W	0.87	86.5%	9-45V	59V
	400mA	0.14A	20.68W	3.60-18.00W	0.88	87.0%	9-45V	59V
	450mA	0.15A	23.14W	4.05-20.25W	0.89	87.5%	9-45V	59V
	500mA	0.16A	25.62W	4.50-22.50W	0.90	87.8%	9-45V	59V
	550mA	0.17A	28.12W	4.95-24.75W	0.91	88.0%	9-45V	59V
	600mA	0.18A	30.68W	5.40-27.00W	0.92	88.0%	9-45V	59V
	650mA	0.19A	33.23W	5.85-29.25W	0.93	88.0%	9-45V	59V
	700mA	0.21A	35.79W	6.30-31.50W	0.94	88.0%	9-45V	59V
	750mA	0.22A	38.35W	6.75-33.75W	0.94	88.0%	9-45V	59V
	800mA	0.22A	40.90W	7.20-36.00W	0.95	88.0%	9-45V	59V
	850mA	0.23A	43.46W	7.65-38.25W	0.95	88.0%	9-45V	59V
	900mA	0.24A	46.02W	8.10-40.50W	0.95	88.0%	9-45V	59V
	950mA	0.24A	45.34W	8.55-39.90W	0.95	88.0%	9-42V	59V
	1000mA	0.25A	47.72W	9.00-42.00W	0.95	88.0%	9-42V	59V
1050mA	0.26A	50.11W	9.45-44.10W	0.95	88.0%	9-42V	59V	

* 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 (compatible Class I)
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
	Input Current	≤0.26A (230VAC, full load)
	Input Power	≤50.11W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	Standby Power Consumption	≤0.5W (230VAC, full load)
	Inrush Current	≤20A/29us (230VAC, full load)
	Connected quantity of 10A Breaker Connected quantity of 16A Breaker Connected quantity of 20A Breaker	10pcs/type A ; 16pcs/type B ; 25pcs/type C 16pcs/type A; 25pcs/type B ; 40pcs/type C 20pcs/type A; 31pcs/type B ; 50pcs/type C
Output	Output Voltage Range	9-45VDC@300-900mA 9-42VDC@950-1050mA
	No Load Voltage	59VDC Max.
	Output Current	300-1050mA
	Max. Output Power	44.1W
	Efficiency	≥88% 230VAC, full load@max current
	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°C @300-1050mA
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa

Construction	Connection Method	Push-in Terminal
	Installation	Built-in
	PRI Wire preparation	0.5-1.5 [□] / 8-9mm
	SEC Wire preparation	0.5-1.5 [□] / 8-9mm
	Dimension	97*43.5*23mm (L*W*H)
Standards	Certification	CE/ENEC/SAA/UKCA/EAC
	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°C
		75000h Tc=80°C
		100000h Tc=75°C
Warranty	5years, F.R. <10000ppm	

Remark:

- All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C 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. Label



KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid




CC44W300-1050 LED Driver
Constant Current LED Power Supply (LED Only)

PRI:220-240VAC 180-280VDC 0/50/60Hz 0.26A Max.
SEC:300-900mA 9-45VDC 950-1050mA 9-42VDC
Uout:59VDC Max. 44.1W ● tc tc:85°C ta:45°C




wire preparation [8-9mm]

PRI: 0.5-1.5[□]
SEC: 0.5-1.5[□]

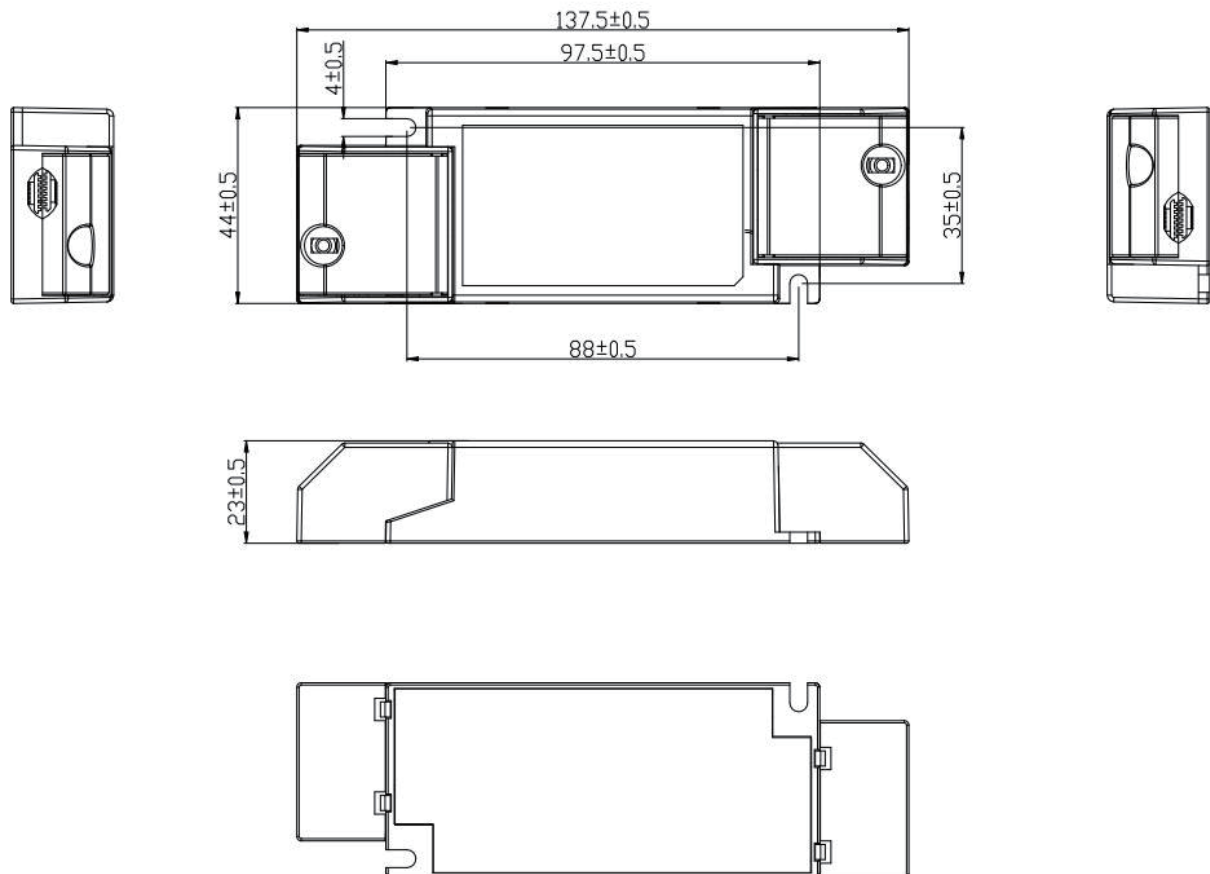
Pout [W]	Iout [mA]	λ	1	2	3	4	Pout [W]	Iout [mA]	λ	1	2	3	4
13.5	300	0.86C	-	-	-	-	31.5	700	0.94C	ON	-	-	-
15.8	350	0.87C	-	-	-	ON	33.8	750	0.94C	ON	-	-	ON
18.0	400	0.88C	-	-	ON	-	36.0	800	0.94C	ON	-	ON	-
20.3	450	0.89C	-	-	ON	ON	38.3	850	0.94C	ON	-	ON	ON
22.5	500	0.90C	-	ON	-	-	40.5	900	0.95	ON	ON	-	-
24.8	550	0.91C	-	ON	-	ON	39.9	950	0.95	ON	ON	-	ON
27.0	600	0.92C	-	ON	ON	-	42.0	1000	0.95	ON	ON	ON	-
29.3	650	0.93C	-	ON	ON	ON	44.1	1050	0.95	ON	ON	ON	ON

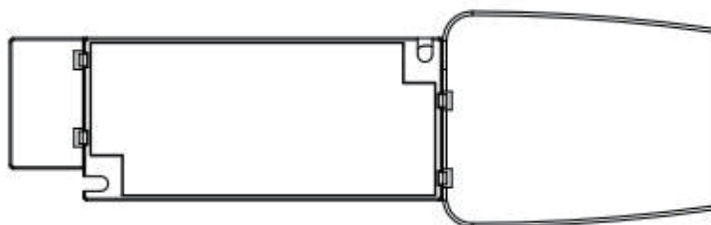
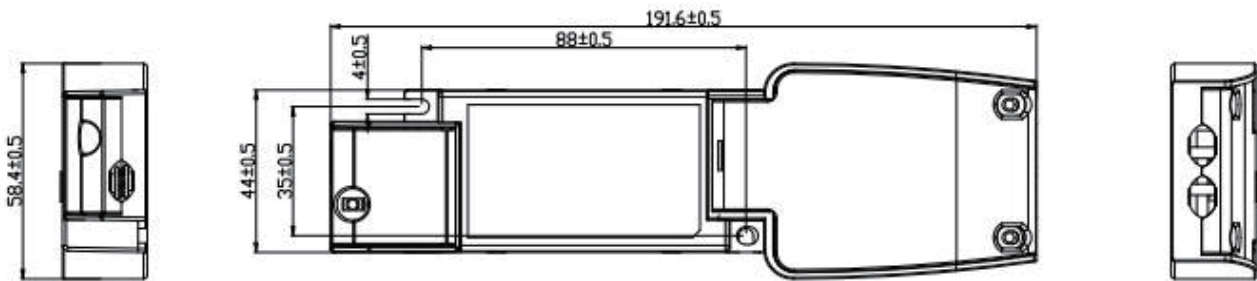
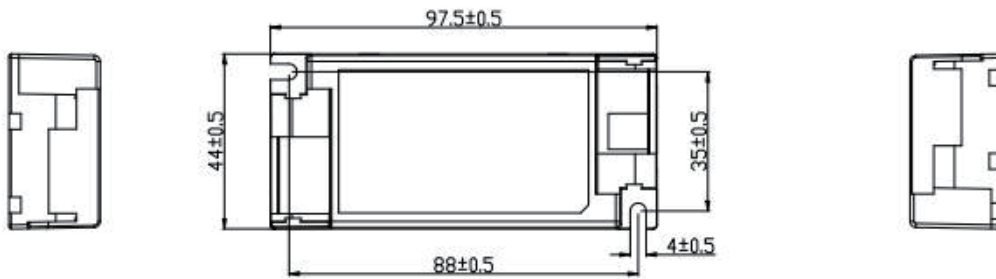


3. Output Current Setting

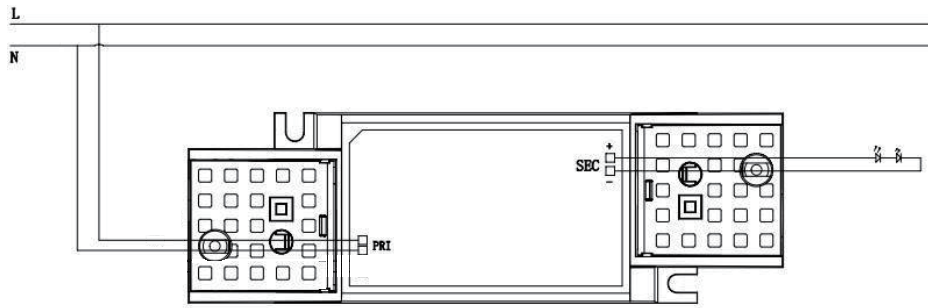
Output Current	1	2	3	4
300mA	-	-	-	-
350mA	-	-	-	ON
400mA	-	-	ON	-
450mA	-	-	ON	ON
500mA	-	ON	-	-
550mA	-	ON	-	ON
600mA	-	ON	ON	-
650mA	-	ON	ON	ON
700mA	ON	-	-	-
750mA	ON	-	-	ON
800mA	ON	-	ON	-
850mA	ON	-	ON	ON
900mA	ON	ON	-	-
950mA	ON	ON	-	ON
1000mA	ON	ON	ON	-
1050mA	ON	ON	ON	ON

4. Dimension



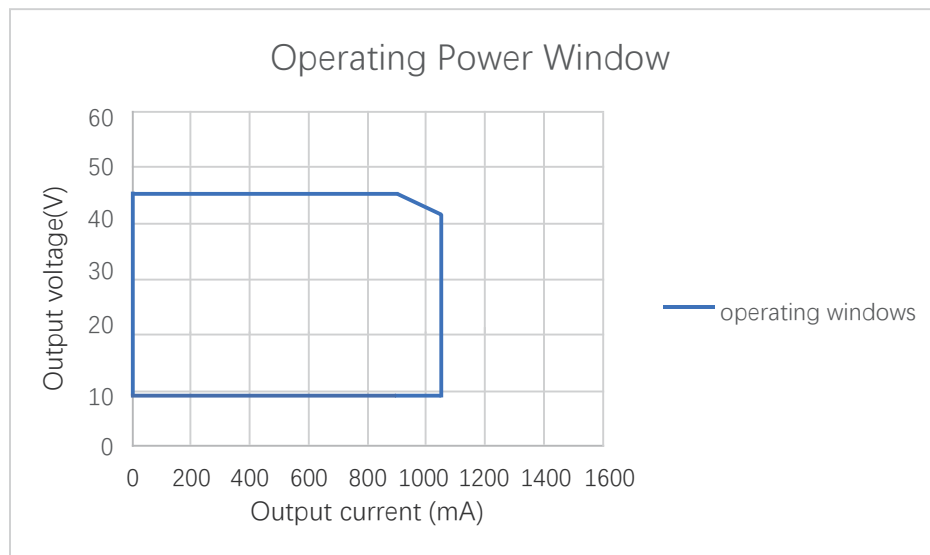


5. Wiring Diagram



6. Output Power Window

Operating power window



7. Packing information

SC

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
398*230*130	100	0.118	11.78	12.18

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

8. REVISION HISTORY

Date	Revision	Remark