

## 100W CONSTANT VOLTAGE LED POWER SUPPLY

### Features :

- European standard AC input range ( 220-240VAC )
- IP67 grade, Aluminum shell
- Types of protection : Short circuit / Over load / No Load
- Natural air cooling, High reliability
- 100% full load aging test
- Suitable for LED lighting and other 12VDC driver applications
- Comply with the world lighting safety code
- Comply with the Class 1 insulation grade, Class 1 leakage protection grade
- 5 years quality guarantee



### Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Mains supply voltage	220VAC	-	240VAC	
Input AC Current	-	-	0.52A	Measured at full load and 230 Vac input
Input Frequency	-	50/60Hz	-	
Power Factor	-	≥ 0.95	-	Measured at 230Vac, full load
Efficiency	89%	-	-	Measured at 230Vac
Inrush current	-	50A	-	Measured at 230Vac 25°C
Leakage current	-	0.7mA	-	Measured at 230Vac/50Hz

### Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Rated Output Voltage	11.5VDC	-	12.5VDC	Depends of mains voltage, LED Modules load and temperatures
Rated Output Current	-	-	8.33A	Measured at 230 Vac input
Peak Output Current	-	-	8.83A	at cold LED Modules, measured at 230 Vac input
Output Power	-	-	100W	Measured at 230 Vac input
Voltage Ripple & Hoise (Vp-p)	-	150mV	-	Measured at full load and 230 Vac input

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### Protection Functions

Parameter	Min.	Typ.	Max.	Notes
Over Load	106W	-	-	Self-recovering. The treshold depends of output current and mains voltage. Please take attention of LED Modules load and connections.
Over Load protection	106%	-	-	Self-recovering. Depends of mains voltage and LED Modules load
Short circuit protection	-	-	-	Self-recovering
No load operation	-	-	13.2V	Self-recovering
Over temperature protection	-	-	115°C	Protected mode. Turn off from main supply, restart after temperature drop to normal

### General Specifications

Parameter	Min.	Typ.	Max.	Notes
Efficiency	89%	-	-	
No Load Power Dissipation	-	-	3W	
Life Time	-	5years	-	Depends of Tc and LED Modules load
Dimensions (L x W x H)/Weight	158*72*52mm/0.880kg			With shell

### Environmental Specifications

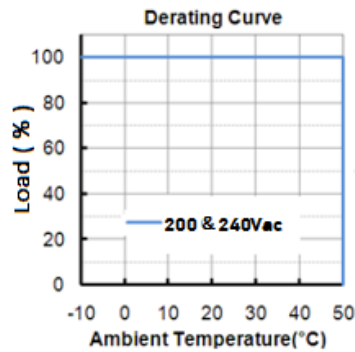
Parameter	Min.	Typ.	Max.	Notes
Operating ambient temperature	-20°C	-	50°C	Humidity: 15% RH to 90% RH. Depends of LED Modules load. See Derating Curve for more details
Temperature of Tc point	-20°C	-	80°C	Humidity: 15% RH to 90% RH. Depends of LED Modules load and Ta. See Derating Curve for more details
Storage Temperature	-20°C	-	60°C	
Waterproofing Grade	-	-	IP67	

### Safety & EMC Compliance

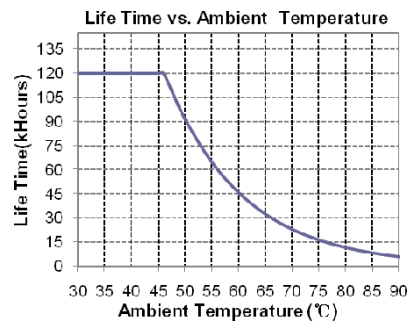
<b>Safety Category</b>	<b>Standart</b>
CE	EN 61347-1, EN61347-2-13
Withstand Voltage	I/P ~ O/P:3750VAC/50Hz 1min, I/P ~ CASE:2000VAC/50Hz 1min, O/P ~ CASE:1500VAC/50Hz 1min
Insulation Impedance	I/P ~ O/P, I/P ~ FG : 100M Ohm/500VDC/25°C/70%RH
<b>EMI Standart</b>	<b>Notes</b>
EN 55015	Conducted Emission Test & Radiated Emission
EN 61000-3-2	Harmonic Current Emissions Class D
EN 61000-3-3	Voltage Fluctuations & Flicker
<b>EMI Standart</b>	<b>Notes</b>
EN 61000-4-4	Electrical Fast Transient / Burst-EFT Level 3, Criteria A
EN 61000-4-5	Level 3 is strictly tested, L-N:2KV: L/N-GND:4KV
EN 61547	Electromagnetic Immunity Requirements Applies to Lighting Equipment

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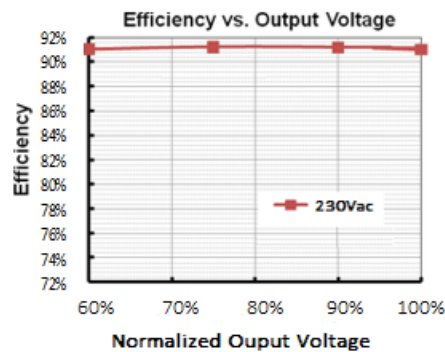
- Derating Curve



- Life Time vs. Ambient Temperature Curve



- Efficiency vs. Load



Modified Date	Rev.	Description of Change		
		Item	From	To
16.6.2021	1	Datasheet Release	/	/