

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	-	At 230Vac, 100% load
Efficiency	-	89%	-	Power on for 30 minutes
Surge Current	-	50A	-	At 230Vac, 25°C
Leak Current	-	0.7mA	-	At 230Vac, 50Hz

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Rated Output Voltage	-	12V	-	
Rated Output Current	-	8A	-	
Maximum Output Power	-	100W	-	
Maximum Output Voltage	-	-	12.4V	No load
Voltage Ripple & Hoise (Vp-p)	-	-	150mV	

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Protections Functions

Parameter	Min.	Typ.	Max.	Notes
Over Load protection	109% load	-	115% load	Protected mode. The power supply shall be self-recovery when the fault condition is removed.
Short circuit protection	-	-	-	The power supply shall be self-recovery when the fault condition is removed.
Over voltage protection	-	-	12.4V	The power supply shall be self-recovery when the fault condition is removed.
Over temperature protection	-10°C	-	115°C	Protected mode. Turn off the input voltage, restart after temperature drop to normal

General Specifications

Parameter	Min.	Typ.	Max.	Notes
Efficiency	89%	90%	-	Power on for 30 minutes
NoLoad.Power Dissipation	-	-	3W	
Life Time	-	5years	-	Measured at 230 Vac Input 100% Load and 50°C ambient temperature, See life time vs Ta for more details
Dimensions (L × W × H)		158*72*52mm		With shell

Environmental Specifications

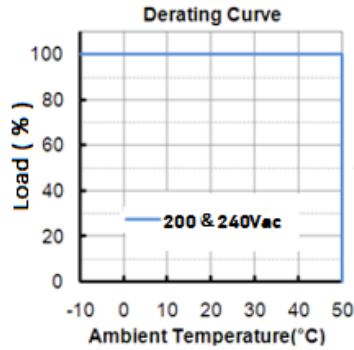
Parameter	Min.	Typ.	Max.	Notes
Operating Temperature	-20°C	-	50°C	Humidity: 15% RH to 90% RH. See Derating Curve for more details
Storage Temperature	-20°C	-	80°C	
Temperature Coefficient	-	-	0.05%/°C	Ambient temperature = 0°C ~Ta max
Waterproofing Grade	-	-	IP67	

Safety & EMC Compliance

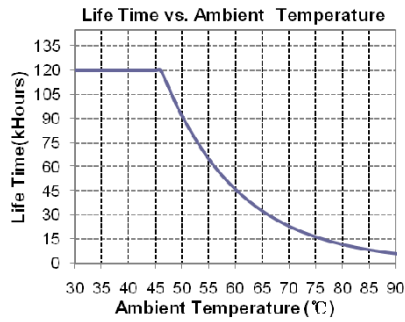
Safety Category	Standart
CE	EN 61347-1, EN61347-2-13
Withstand Voltage	I/P ~ O/P 3750VAC/50Hz 1m in, I/P ~ CASE 2000VAC/50Hz 1m in, O/P ~ CASE 1500VAC/50Hz 1m in
Insulation Impedance	I/P ~ O/P, I/P ~ FG :100M Ohm /500VDC/25°C/70% RH
EMI Standart	Notes
EN 55015	Conducted Emission Test & Radiated Emission
EN 61000-3-2	Harmonic Current Emissions Class D
EN 61000-3-3	Voltage Fluctuations & Flicker
EMI Standart	Notes
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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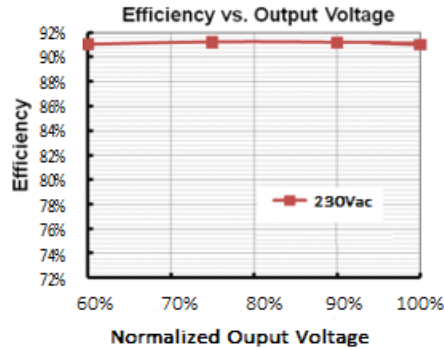
- Derating Curve



- Life Time vs. Ambient Temperature Curve



- Efficiency vs. Load



Revision History

Modified Date	Rev.	Description of Change		
		Item	From	To
17.3.2021	1	Datasheet Release	/	/