

## 300W 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 I insulation grade, Class I leakage protection grade
- 3 years quality guarantee



### Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Mains supply voltage	220 VAC	-	240 VAC	
Input AC Current	-	2.6 A	-	Full load at 230 VAC/50Hz input
Input Frequency	-	50/60 Hz	-	
Power Factor	0.5	-	-	230 VAC/50Hz, full load
Efficiency	-	92%	-	230 VAC/50Hz
Dimmability				not dimmable

### Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Rated Output Voltage	-	12.0 VDC	-	Full load at 220 VAC/50Hz input
Rated Output Current	-	-	25 A	230 VAC/50Hz
Output Power	-	-	300 W	230 VAC/50Hz
Voltage Ripple & Hoise (Vp-p)	-	400 mV	-	230 VAC/50Hz, full load

### Protection Functions

Parameter	Min.	Typ.	Max.	Notes
Over Load protection	-	-	-	Yes. Self-recovering. Depends of mains voltage and LED Modules load. Please take attention of LED Modules load and connections.
Short circuit protection	-	-	-	Yes, Self-recovering
No load operation	-	-	-	Yes, Self-recovering

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### General Specifications

Parameter	Min.	Typ.	Max.	Notes
Efficiency	90%	-	-	
Life Time	-	3 years	-	Depends of Tc and LED Modules load
Dimensions (L x W x H)/Weight		200/54/35 mm	680 g	With shell
Fixing dimensions				210.0 mm
Mounting				2xM4 screws
Housing				Metal
Inputs - wire cross-section				3x0.75 mm <sup>2</sup>
Outputs - wire cross-section				4x1.5 mm <sup>2</sup> (AWG16)

### Environmental Specifications

Parameter	Min.	Typ.	Max.	Notes
Operating ambient temperature	-20°C	-	45°C	Humidity: 15% RH to 90% RH. Depends of LED Modules load. See Derating Curve for more details
Temperature of Tc point	-	-	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	-	80°C	
Storage humidity				20~95% RH no condensation
Waterproofing Grade	-	-	IP67	

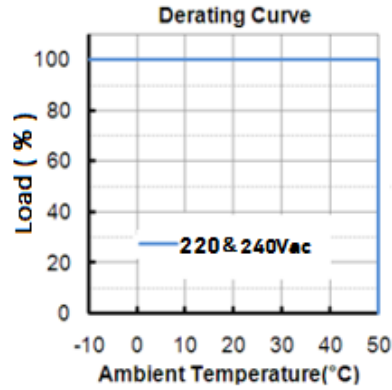
### Safety&EMC compliance

Category	Standard
CE	
LVD	EN 61347-1, EN61347-2-13*
EMC	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61000-4-4, EN 61000-4-5, EN 61547
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
* Safety class I	Galvanic Isolated I/O, SELV output

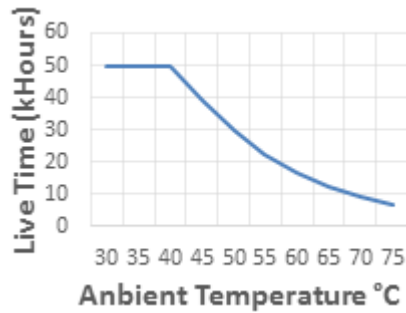
Standard	Notes:
EN 55015	Conducted Emission Test & Radiated Emission
EN 61000-3-2	Harmonic Current Emissions Class A
EN 61000-3-3	Voltage Fluctuations & Flicker
EN 61000-4-4	Electrical Fast Transient / Burst
EN 61000-4-5	Level 3 is strictly tested, L-N:2KV: L/N-GND:4KV
EN 61547	Electromagnetic Immunity Requirements Applies to Lighting Equipment

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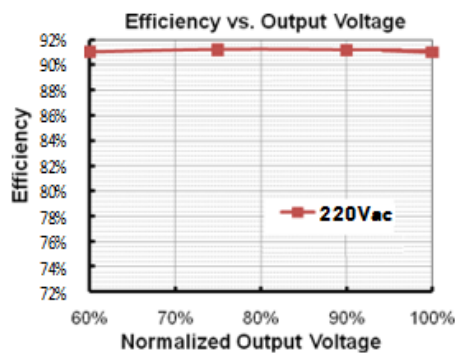
- Derating Curve



- Life Time vs. Ambient Temperature Curve



- Efficiency vs. Load



Modified Date	Rev.	Description of Change		
		Item	From	To
28.2.2024	3	Datasheet Release	/	/