

150W 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 24VDC driver applications
- Comply with the world lighting safety code
- Comply with the Class 1 insulation grade, Class 1 leakage protection grade
- 3 years quality guarantee



Input Specifications

| Parameter | Min. | Typ. | Max. | Notes |
|----------------------|---------|---------|---------|---------------------------------|
| Mains supply voltage | 220 VAC | - | 240 VAC | |
| Input AC Current | - | 1.6 A | - | Full load at 230 VAC/50Hz input |
| Input Frequency | - | 50/60Hz | - | |
| Power Factor | 0.5 | - | - | 230 VAC/50Hz, full load |
| Efficiency | - | 92% | - | 230 VAC/50Hz |
| Dimmability | | | | not dimmable |

Output Specifications

| Parameter | Min. | Typ. | Max. | Notes |
|-------------------------------|------|----------|--------|---|
| Output Voltage | - | 24.0 VDC | - | Depends of mains supply voltage range, LED Modules Load, temperature conditions |
| Output Current | - | - | 6.25 A | |
| Output Power | - | - | 150 W | |
| Voltage Ripple & Hoise (Vp-p) | - | 400 mV | - | 230 VAC/50Hz |

Protections 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 | 91% | - | - | |
| Life Time | - | 3 years | - | Depends of Tc and LED Modules load |
| Dimensions (L x W x H)/Weight | | 118/54/35 mm | 425 g | With shell |
| Fixing dimensions | | | | 125.0 mm |
| Mounting | | | | 2xM4 screws |
| Housing | | | | Metal |
| Inputs - wire cross-section | | | | 3x0.75 mm ² |
| Outputs- wire cross-section | | | | 2x1.5 mm ² (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 | -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 | - | 80°C | |
| Storage humidity | | | | 20~95% RH no condensation |
| Waterproofing Grade | - | - | IP67 | |

Safety&EMC complaiance

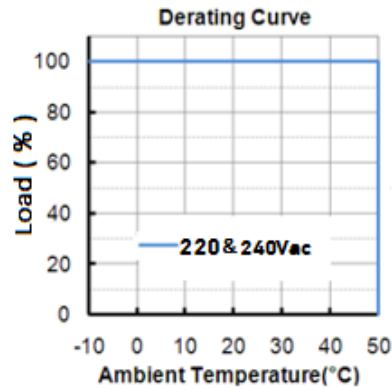
| Category | Standard |
|----------------------|---|
| CE, CB, SASO | |
| LVD | EN 61347-1, EN61347-2-13* |
| EMC | EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61000-4-4, EN 61000-4-5, EN 61547 |
| Withstand Voltage | I/P ~ O/P:3750VAC/50Hz 1min, I/P ~ CASE:2000VAC/50Hz 1min, O/P ~ CASE:1500VAC/50Hz 1min |
| 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

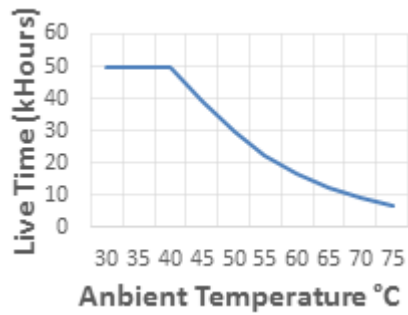
| Standard | Notes: |
|--------------|---|
| EN 55015 | Conducted Emission Test & Radiated Emission |
| EN 61000-3-2 | Harmonic Current Emissions Class A |
| EN 61000-3-3 | Voltage Fluctuations & Flicker |
| EN 61000-4-4 | Electrical Fast Transient / Burst |
| EN 61000-4-5 | Level 3 is strictly tested,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

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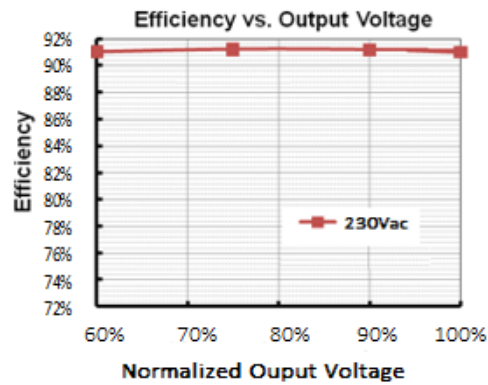
- Derating Curve



- Life Time vs. Ambient Temperature Curve



- Efficiency vs. Load



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