

LS-PSU-12V/24V-96W-5in1

### Dimmable Junction-Box LED Driver

Auto-switching output — Triac / 0-10V / 1-10V / 10V PWM / Potentiometer dimming — IP54



**96 W**  
RATED POWER

**12 / 24 V**  
AUTO-SWITCH

**89 %**  
EFFICIENCY

**IP54**  
INGRESS RATING

**5 yr**  
WARRANTY

UL 8750

UL 1310

EN 61347-1 / -2-13

FCC Part 15 B

RoHS

CE

SELV

CLASS 2

CLASS P

#### INPUT

Input Voltage Range	100 – 277 V AC
Power Factor	PF > 0.9
Efficiency	Up to 89 %
Loading Range	10 % to 100 %

#### OUTPUT

Rated Power	96 W
Output Voltage	12 V DC or 24 V DC — auto-switching
Dimming Methods	Triac • 0-10V • 1-10V • 10V PWM • Potentiometer
Flicker	Flicker-free

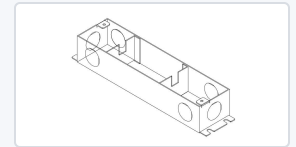
12 V MODE: **8 A** (96 W)

24 V MODE: **4 A** (96 W)

#### DIMENSIONS

**275 × 56 × 36 mm**  
10.83" × 2.20" × 1.42"

L: 275 mm W: 56 mm H: 36 mm Enclosure: IP54 junction box  
Cooling: Free air



#### ENVIRONMENT

Operating Temp. / Humidity	-40 °C to +70 °C / 20 % to 90 % RH, non-condensing
Storage Temp. / Humidity	-40 °C to +80 °C / 10 % to 95 % RH
Temperature Coefficient	±0.03 %/°C (0 °C to 50 °C)
Vibration	10 – 500 Hz, 2G, 10 min./cycle, 72 min. per X/Y/Z axis
Location	Dry or damp location use

#### SAFETY & EMC

Safety Standards	UL 8750 + UL 1310 Class 2, EN 61347-1, EN 61347-2-13
Withstand Voltage	I/P – O/P: 3.75 kVAC
Isolation Resistance	I/P – O/P: 100 MΩ / 500 VDC / 25 °C / 70 % RH
EMC Emission	EN 55015, EN 61000-3-2/-3 (≥60 % loading), FCC Part 15 B
Compatible Dimmers	Forward / Reverse phase, Triac, 0/1-10V, Multifunction (min. 1.5× driver output)

#### PROTECTIONS

Short Circuit	Shutdown of output voltage — re-power to recover after fault is removed
Over Current	≤ 1.2 × I <sub>out</sub>
Over Loading	≤ 120 % — output voltage shutdown, re-power to recover
Over Temperature	Output voltage shutdown at 100 °C ± 10 °C — re-power to recover

#### NOTES

- All parameters not specifically mentioned are measured at 230 VAC input, rated load, and 25 °C ambient temperature.
- Tolerance includes setup tolerance, line regulation, and load regulation.
- This power supply is a component to be operated in combination with the final equipment. EMC performance depends on the complete installation; the final equipment manufacturer must re-qualify EMC directive compliance. Installation must be performed by a qualified professional with adequate ventilation for heat dissipation.