

**L6R48 / L6R60 Series****48W / 60W Wall Mount Power Supplies**

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL Safety Approved
- Corded DC Output Connector
- Light Weight and Compact



Model No.	Application	Output Connector	Output Voltage	Output Current			Voltage Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
L6R48-120400	ITE	2.1mm I.D. x 5.5mm O.D. x 9.5mm Barrel	+12.0V	0	4.0	—	±5%	< ± 1%	± 1%	± 5%
L6R48-180267	ITE		+18.0V	0	2.7	—	±5%	< ± 1%	± 1%	± 5%
L6R48-240200	ITE		+24.0V	0	2.0	—	±5%	< ± 1%	± 1%	± 5%
L6R48-300160	ITE		+30.0V	0	1.6	—	±5%	< ± 1%	± 1%	± 5%
L6R48-360133	ITE		+36.0V	0	1.3	—	±5%	< ± 1%	± 1%	± 5%
L6R60-120	ITE		+12.0V	0	5.0	—	±5%	< ± 1%	± 1%	± 5%
L6R60-180	ITE		+18.0V	0	3.3	—	±5%	< ± 1%	± 1%	± 5%
L6R60-240	ITE		+24.0V	0	2.5	—	±5%	< ± 1%	± 1%	± 5%
L6R60-300	ITE		+30.0V	0	2.0	—	±5%	< ± 1%	± 1%	± 5%
L6R60-360	ITE		+36.0V	0	1.6	—	±5%	< ± 1%	± 1%	± 5%

- Output voltages from 5.0Vdc to 36.0Vdc are available in increments of 0.1V. Please contact Tri-Mag, LLC for the part number and specifications for your output voltage requirement and application. Output voltages from 6.0V to 8.9V do not meet Level VI efficiency requirements and are subject to associated importation regulations.
- The output voltage is verified to specs at 60 percent rated load condition.
- The **line regulation** is defined by changing ± 10 percent of input voltage from the nominal line at rated load.
- The **load regulation** is defined by changing ± 40 percent of the measured output load from 60 percent of the rated load.
- The **ripple and noise** is measured by using 20MHz bandwidth limited oscilloscope with each output terminated with a 10 µF electrolytic and a 0.1 µF capacitor at rated load and nominal line.
- The **efficiency** is measured at rated load and nominal line.

# L6R48 / L6R60 Series

Economical and dependable whether powering stationary or portable devices.

This DOE Level VI compliant power supply/charger is rated up to 60W, with plenty of voltage levels to

choose from: 12.0Vdc to 36.0Vdc (in increments of 0.1V), to match your specific need.

Call us (800-657-0853) for the part number to match your particular need.

## Specifications

### Input

Input Voltage	• 90 Vac ~ 264 Vac
Input Frequency	• 47 Hz to 63 Hz
No Load Input Power	• < 0.1W
Input Current	• 1.2A Max.
Inrush Current	• 40A Max.
Leakage Current	• 0.25mA Max.
Input Connection	• US (others available)

### Output

Output Voltage Range	• 5.0 to 36.0 Vdc
Output Current Range	• L6R48: 5.0 - 1.3 A, 48W Max. • L6R60: 6.0 - 1.6 A, 60W Max.
Minimum Load	• No min. load required.
Line Regulation	• $\pm 1\%$ at rated load across input voltage range
Load Regulation	• $\pm 5\%$
Ripple & Noise	• 240mVp-p Max.
Overvoltage Protection	• Auto recovery
Overload Protection	• Auto recovery
Short Circuit Protection	• Auto recovery

### General

Insulation Resistance	• 50M $\Omega$ Min.
Efficiency	• Level VI compliant
MTBF	• 50,000 hrs to MIL-HDBK-217F at +25°C

### Environmental

Operating Temperature	• 0°C to 40°C
Operating Humidity	• 5% - 95% RH, Non-Condensing
Storage Temperature	• -20°C to +80°C

### EMC & Safety

Safety Approvals	• UL: UL60950-1 • cUL: UL60950-1
EMC Approvals	• FCC

### Warranty

Warranty Period	• 1 year
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### Dimensions and Notes

Dimensions in mm	
Tolerance	• $\pm 0.2\text{mm}$
Size	• 117.3 x 51.3 x 40.0 mm • 4.62 x 2.02 x 1.57 Inches
Weight	• Approx. 200g (7.0oz.)
Connectors	• AC input, US 2-prong inlet plug • DC output, standard 2.1mm x 5.5mm x 9.5mm corded dc barrel connector or per customer specification.
Cord length	• 1000 $\pm$ 20 mm (39.3 $\pm$ .8")

### Mechanical Drawing

