

L6R36/L6R48 Series

36W/48W Wall Mount Power Supplies

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



Model No.	Application	Output Connector	Output Voltage	Output Current			Voltage Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
L6R36-090	ITE	Corded Jack	+9.0V	0	4.0	—	±5%	< ± 1%	± 1%	± 5%
L6R36-120	ITE	Corded Jack	+12.0V	0	3.0	—	±5%	< ± 1%	± 1%	± 5%
L6R36-180	ITE	Corded Jack	+18.0V	0	2.0	—	±5%	< ± 1%	± 1%	± 5%
L6R36-240	ITE	Corded Jack	+24.0V	0	1.5	—	±5%	< ± 1%	± 1%	± 5%
L6R36-300	ITE	Corded Jack	+30.0V	0	1.2	—	±5%	< ± 1%	± 1%	± 5%
L6R36-360	ITE	Corded Jack	+36.0V	0	1.0	—	±5%	< ± 1%	± 1%	± 5%
L6R48-090	ITE	Corded Jack	+9.0V	0	5.0	—	±5%	< ± 1%	± 1%	± 5%
L6R48-120	ITE	Corded Jack	+12.0V	0	4.0	—	±5%	< ± 1%	± 1%	± 5%
L6R48-180	ITE	Corded Jack	+18.0V	0	2.67	—	±5%	< ± 1%	± 1%	± 5%
L6R48-240	ITE	Corded Jack	+24.0V	0	2.0	—	±5%	< ± 1%	± 1%	± 5%
L6R48-300	ITE	Corded Jack	+30.0V	0	1.6	—	±5%	< ± 1%	± 1%	± 5%
L6R48-360	ITE	Corded Jack	+36.0V	0	1.33	—	±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.
- 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.

L6R36/L6R48 Series

Economical and dependable whether powering stationary or portable devices.

This DOE Level VI compliant power supply/charger is rated up to 48W, with plenty of voltage levels to

choose from: 5.0Vdc 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	• L6R36: 1.0 - 5.0A, 36W Max. • L6R48: 1.3 - 5.0A, 48W Max.
Minimum Load	• No min. load required.
Line Regulation	• ± 1% at rated load across input voltage range
Load Regulation	• ± 5%
Ripple & Noise	• 240mVp-p Max.
Overvoltage Protection	• Auto recovery
Overload Protection	• Auto recovery
Short Circuit Protection	• Auto recovery

General

Insulation Resistance	• 50MΩ 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	• ± 0.2mm
Size	• 97.0 x 45.0 x 34.6 mm • 3.82 x 1.77 x 1.36 Inches
Weight	• Approx. 200g (7.0oz.)
Connectors	• AC input, US 2-prong inlet plug • DC output, standard 5.5mm x 2.1mm corded dc output jack or per customer specification.
Cord length	• 1500 ± 20 mm (59 ± .8")

Mechanical Drawing

