L6R48D Series

48W Desktop Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL Safety Approved
- Corded Output Connection
- IEC 60320 C6, C8 or C14 AC input connectors
- Light Weight and Compact



Model No.¹	Application	Output Connector	Output Voltage	Output Current			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R48D090500	ITE	Corded Jack	+9.0V	0	5.0	_	±5%	< ± 1%	± 1%	± 5%
L6R48D120400	ITE	Corded Jack	+12.0V	0	4.0	_	±5%	< ± 1%	± 1%	± 5%
L6R48D180267	ITE	Corded Jack	+18.0V	0	2.67	-	±5%	< ± 1%	± 1%	± 5%
L6R48D240200	ITE	Corded Jack	+24.0V	0	2.0	_	±5%	< ± 1%	± 1%	± 5%
L6R48D300160	ITE	Corded Jack	+30.0V	0	1.6	-	±5%	< ± 1%	± 1%	± 5%
L6R48D360133	ITE	Corded Jack	+36.0V	0	1.33	_	±5%	< ± 1%	± 1%	± 5%

C8 is the standard option for input connector. Add suffix "C6" or "C14" for alternate input connector options.

- 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.





L6R48D Series

Innovative, reliable, and inexpensive. This economical DOE Level VI compliant power supply/ charger is available in a variety of voltage levels,

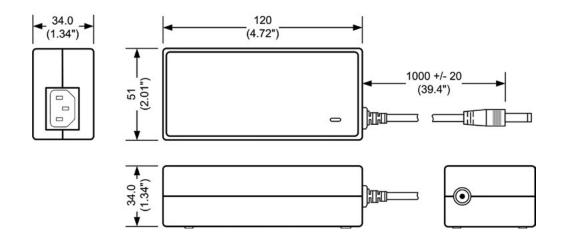
5.0Vdc to 48.0Vdc (in increments of 0.1V) to match your needs. Rated up to 48W when powering either stationary or charging portable devices.

Specifications

Input Environmental Input Voltage 90 Vac ~ 264 Vac Operating Temperature 0°C to 40°C Input Frequency 47 Hz to 63 Hz Operating Humidity 5% - 95% RH, Non-Condensing No Load Input Power < 0.1W Storage Temperature -20°C to +80°C Input Current 1.2A Max. EMC & Safety Inrush Current 40A Max. Leakage Current 0.25mA Max. Safety Approvals UL: UL60950-1 Input Connection US (others available) cUL: UL60950-1 **EMC Approvals** FCC Output Warranty Output Voltage Range • 5.0 to 36.0 Vdc Warranty Period **Output Current Range** L6R48D: 1.3 - 5.0A, 48W Max. • 1 year Minimum Load No min. load required. **Dimensions and Notes** Line Regulation ± 1% at rated load across input voltage range Dimensions in mm Load Regulation ± 5% Tolerance ± 0.2mm Ripple & Noise 240mVp-p Max. Size 120.0 x 51.0 x 34.0 mm Overvoltage Protection 4.72 x 2.01 x 1.34 Inches Auto recovery Overload Protection Weight Auto recovery Approx. 280g (9.9oz.) Short Circuit Protection AC input; IEC 60320 C6, C8 or Auto recovery Connectors C14 connector General DC output, standard 5.5mm x 2.1mm x 9.5mm corded dc output jack or per Insulation Resistance 50MΩ Min. customer specification. Efficiency Level VI compliant Cord length 1000 ± 20mm (39.4 ± .8")

Mechanical Drawing

MTBF



2019-08

50,000 hrs to MIL-HDBK-217F at +25°C