

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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#### **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. <sup>1</sup>	Application	Output Connector	Output Voltage	Output Current			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R48D-090	ITE	Corded Jack	+9.0V	0	5.0	_	±5%	< ± 1%	± 1%	± 5%
L6R48D-120	ITE	Corded Jack	+12.0V	0	4.0	_	±5%	< ± 1%	± 1%	± 5%
L6R48D-180	ITE	Corded Jack	+18.0V	0	2.67	_	±5%	< ± 1%	± 1%	± 5%
L6R48D-240	ITE	Corded Jack	+24.0V	0	2.0	_	±5%	< ± 1%	± 1%	± 5%
L6R48D-300	ITE	Corded Jack	+30.0V	0	1.6	_	±5%	< ± 1%	± 1%	± 5%
L6R48D-360	ITE	Corded Jack	+36.0V	0	1.33	_	±5%	< ± 1%	± 1%	± 5%

<sup>1.</sup> Add "C6", "C8", or "C14" for the required AC input connector configuration.

- Output voltages from 5.0Vdc to 48.0Vdc 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.





### **L6R48D Series**

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

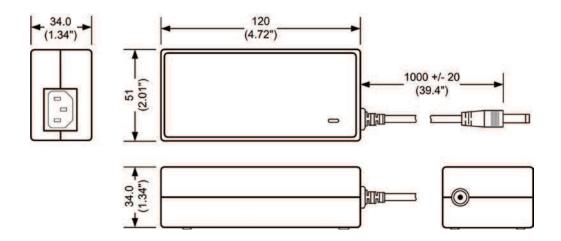
5.0Vdc to 48.0Vdc (in increments of 0.1V) to match your needs. Rated up to 48W when powering either stationary or charging portable devices.

#### **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 Auto recovery 4.72 x 2.01 x 1.34 Inches Overload Protection Weight Auto recovery Approx. 280g (9.9oz.) Short Circuit Protection Auto recovery Connectors AC input; IEC 60320 C6, C8 or C14 connector General DC output, standard 5.5mm x 2.1mm 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** 



2017-04

50,000 hrs to MIL-HDBK-217F at +25°C