# **L6R12H Series**

# 12W Wall Mount Power Supply

- 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	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R12H-050	ITE	2.1mm I.D. x 5.5mm O.D. x 9.5mm Barrel	+5.0V	0	2.1	-	±5%	< ± 1%	±1%	± 5%
L6R12H-059	ITE		+5.9V	0	1.8	-	±5%	< ± 1%	±1%	± 5%
L6R12H-070	ITE		+7.0V	0	1.7	-	±5%	< ± 1%	±1%	± 5%
L6R12H-090	ITE		+9.0V	0	1.0	_	±5%	< ± 1%	± 1%	± 5%
L6R12H-120	ITE		+12.0V	0	1.0	-	±5%	< ± 1%	±1%	± 5%

Output voltages from 5.0Vdc to 12.0Vdc 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.





50,000 hrs to MIL-HDBK-217F at +25°C

## **Power** Supplies

## L6R12H Series

Innovative, reliable, and inexpensive. That's the L6R12H Series.

This economical, DOE Level VI compliant power supply/charger is rated up to 12W when charging any mobile or wireless device.

**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	<ul> <li>US (others available)</li> </ul>
Output	
Output Voltage Range	• 5.0 to 12.0 Vdc
Output Current Range	• 500 - 2100mA, 12W Max.
Minimum Load	<ul> <li>No min. load required.</li> </ul>
Line Regulation	• ± 1% at rated load across input voltage range
Load Regulation	• ± 5%
Ripple & Noise	• 100mVp-p Max.
Overvoltage Protection	Auto recovery
Overload Protection	Auto recovery
Short Circuit Protection	Auto recovery
General	
Insulation Resistance	<ul> <li>50MΩ Min.</li> </ul>
Efficiency	Level VI compliant

#### Environmental

MTBF

Operating Temperature	• 10°C to 40°C
Operating Humidity	• 5% - 95% RH, Non-Condensing
Storage Temperature	<ul> <li>-20°C to +80°C</li> </ul>
EMC & Safety	
Safety Approvals	• UL: UL60950-1

### Safety Approvals

	• OL. OL00330-1
	<ul> <li>cUL: UL60950-1</li> </ul>
EMC Approvals	• FCC

1 year

#### Warranty

Warranty Period

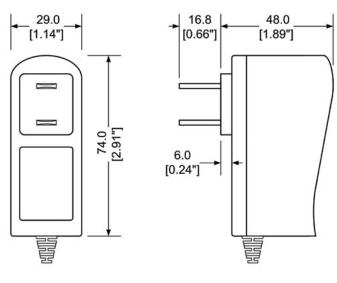
Plenty of voltage levels to choose from, too. From 5.0Vdc to 12.0Vdc (in increments of 0.1V), to match your need.

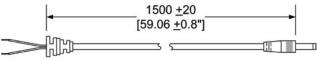
Contact us (800-657-0853 or Sales@Tri-Mag.com) for the part number to match your specifications.

#### **Dimensions and Notes**

Dimensions in mm	
Tolerance	• ± 0.2mm
Size	• 74.0 x 29.0 x 48.0 mm
	2.91 x 1.14 x 1.89 Inches
Weight	<ul> <li>Approx. 120g (4.2 oz.)</li> </ul>
Connectors	<ul> <li>AC input, US 2-prong inlet plug</li> </ul>
	DC output, standard 2.1mm x 5.5mm x 9.5mm corded dc barrel connector or per customer specification.
Cord length	• 1500 ± 20 mm (59 ± .8")

#### Mechanical Drawing





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