## **L6R12 Series**

# 12W Wall Mount Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL 62368-1 Safety Approved
- Corded Output Connection
- 5Vdc USB Connection Available
- Light Weight and Compact
- RoHS Compliant Class II Design



Model No.	Application	Output Connector	Output Voltage	Output Current			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R12-050U	AV / ITE	USB Connector	+5.0V	0	2.10	_	±5%	< ± 1%	± 1%	± 5%
L6R12-050		5.5 x 2.1 x 9.5mm Corded Plug	+5.0V	0	1.50	_	±5%	< ± 1%	± 1%	± 5%
L6R12-059			+5.9V	0	1.50	_	±5%	< ± 1%	± 1%	± 5%
L6R12-070			+7.0V	0	1.50	_	±5%	< ± 1%	± 1%	± 5%
L6R12-090			+9.0V	0	1.33	_	±5%	< ± 1%	± 1%	± 5%
L6R12-120			+12.0V	0	1.00	_	±5%	< ± 1%	± 1%	± 5%
L6R12-180			+18.0V	0	0.67	_	±5%	< ± 1%	± 1%	± 5%
L6R12-240			+24.0V	0	0.50	_	±5%	< ± 1%	± 1%	± 5%
L6R12-300			+30.0V	0	0.40	_	±5%	< ± 1%	± 1%	± 5%
L6R12-360			+36.0V	0	0.33	_	±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.





## **L6R12 Series**

Innovative, reliable, and inexpensive. That's the L6R12 Series.

This economical, UL/cUL 62368-1 approved Class II design is a DOE Level VI compliant power supply/ charger rated up to 12W when charging any mobile

or wireless device. Plenty of voltage levels to choose from, too. From 5.0Vdc all the way up to 36.0Vdc (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.

## **Specifications**

#### Input

Input Voltage Input Frequency

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

## Output

Output Voltage Range Output Current Range Minimum Load Line Regulation

- 5.0 to 36.0 Vdc
- 333 1500mA 12W Max.
- No min. load required.
- ± 1% at rated load across input voltage range

Load Regulation Ripple & Noise

100mVp-p Max. Auto recovery

± 5%

- Overvoltage Protection Overload Protection Short Circuit Protection
- Auto recovery Auto recovery

## General

Insulation Resistance Efficiency

- 50MΩ Min.
- Level VI compliant
- **MTBF** 50,000 hrs to MIL-HDBK-217F at +25°C

#### Environmental

Operating Temperature Operating Humidity Storage Temperature

- 0°C to 40°C
- 5% 95% RH, Non-Condensing
- -20°C to +80°C

#### **EMC & Safety**

Safety Approvals

- UL: ANSI/UL 62368-1
- cUL: CAN/CSA C22.2 NO. 62368-1

**EMC** Approvals

#### Warranty

Warranty Period

3 years

#### **Dimensions and Notes**

Dimensions in mm

Tolerance

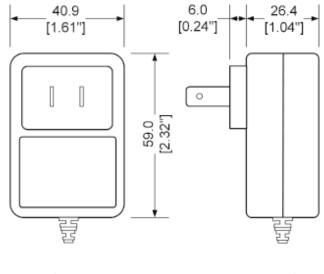
± 0.2mm

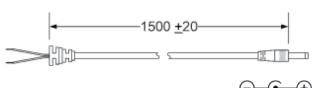
Size

- 59.0 x 40.9 x 25.5 mm
- 2.32 x 1.60 x 1.00 Inches Approx. 105g (3.7 oz.)
- Weight Connectors
- AC input, US 2-prong inlet plug
- DC output, standard 5.5 x 2.1 x 9.5mm corded dc output plug or per

customer specification. Cord length 1500 ± 20 mm (59 ± .8")

# Mechanical Drawing





2021-04