# **L6R06H Series**

# 6W 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



Model No.	Application	Output Connector	Output Voltage	Output Current			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R06H-050U	UL\cUL 62368-1 AV/ITE	USB Connector	+5.0V	0	1.2	_	±5%	100mV <sub>թ-թ</sub> Max.	± 1%	± 5%
L6R06H-050		5.5 x 2.1 x 9.5mm Corded Plug	+5.0V	0	1.2	_				
L6R06H-070*			+7.0V	0	0.86	_				
L6R06H-090			+9.0V	0	0.67	_				
L6R06H-120			+12.0V	0	0.50	_				
L6R06H-150			+15.0V	0	0.40	_				
L6R06H-180			+18.0V	0	0.33	_				
L6R06H-190			+19.0V	0	0.31	_				
L6R06H-240			+24.0V	0	0.25	_				

<sup>\*</sup> Output voltages from 6.0V to 8.9V do not meet Level VI efficiency requirements and are subject to associated importation regulations.

- Output voltages from 5.0Vdc to 24.0Vdc 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.





# **L6R06H Series**

Innovative, reliable, and inexpensive. That's the **L6R06H Series.** 

This economical, UL/cUL 62368-1 approved, DOE Level VI compliant power supply/charger is rated up to 6W when charging any mobile or wireless device.

Plenty of voltage levels to choose from, too. From 5.0Vdc all the way up to 24.0Vdc (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 24.0 Vdc
- 250 1200mA, 6W Max.
- No min. load required.
- ± 1% at rated load across input voltage range

Load Regulation

Ripple & Noise
Overvoltage Protection
Overload Protection
Short Circuit Protection

100mVp-p Max.

± 5%

Auto recoveryAuto recoveryAuto recovery

#### General

Insulation Resistance Efficiency MTBF

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

## Environmental

Operating Temperature
Operating Humidity
Storage Temperature

- 10°C to 40°C
- 5% 95% RH, Non-Condensing
- Storage Temperature -20°C to +80°C

#### **EMC & Safety**

Safety Approvals

- UL: UL62368-1
- cUL: cUL62368-1
- EMC Approvals

### Warranty

Warranty Period

• 3 years

FCC

## **Dimensions and Notes**

Dimensions in mm Tolerance

Size

• ± 0.2mm

Corded Output: 42.0 x 38.7 x 23.7 mm

1.65 x 1.52 x 0.93 Inches -050U: 42.0 x 39.2 x 24.0 mm

L6R06H-050U: 42.0 x 39.2 x 24.0 mm 1.65 x 1.54 x .95 inches

Weight Connectors

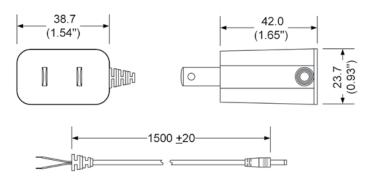
Cord length

• Approx. 90g (3.17 oz.)

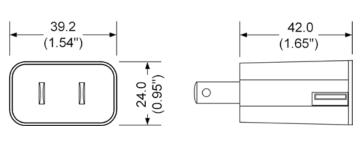
 AC input, US 2-prong inlet plug DC output, standard 5.5mm x 2.1mm corded dc output jack, USB Type A connector or per customer specification.

• 1500 ± 20 mm (59 ± .8")

# Mechanical Drawing







L6R06H-050U Outline Drawing

2021-02a