## L6R24 / L6R30 Series

# 24W & 30W 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
- Light Weight and Compact



Model No.	Application	Output Connector	Output Voltage	Output Current			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R24-120	UL/cUL 62368-1 AV/ITE	Corded Plug 5.5 x 2.1 x 9.5mm	+12.0V	0	2.0	-	±5%	100mV <sub>p-p</sub> Max.	± 1%	± 5%
L6R24-180			+18.0V	0	1.3	_				
L6R24-240			+24.0V	0	1.0	-				
L6R24-300			+30.0V	0	0.8	_				
L6R24-360			+36.0V	0	0.7	-				
L6R24-480			+48.0V	0	0.5	-				
L6R30-120			+12.0V	0	2.5	-				
L6R30-180			+18.0V	0	1.6	_				
L6R30-240			+24.0V	0	1.2	_				
L6R30-300			+30.0V	0	1.0	_				
L6R30-360			+36.0V	0	0.8	_				
L6R30-480	]		+48.0V	0	0.6	-				

- 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. Output voltages from 5.0V to 11.9V 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.





# L6R24 / L6R30 Series

Innovative, reliable, and inexpensive. That's the L6R24/L6R30 Series.

This economical, UL/cUL 62368-1 approved, DOE Level VI compliant power supply/charger is rated up to 30W when powering stationary or charging portable devices.

Plenty of voltage levels to choose from, too. From 5.0Vdc all the way up to 48.0Vdc (in increments of 0.1V), to match your need.

Call us (800-657-0853) 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** 

- 5.0 to 48.0 Vdc
- L6R24: 667 3000mA, 24W Max. L6R30: 833 - 3000mA, 30W Max.

Minimum Load Line Regulation No min. load required. ± 1% at rated load across input voltage range

Load Regulation Ripple & Noise Overvoltage Protection Overload Protection

100mVp-p Max. Auto recovery

± 5%

- Short Circuit Protection
- Auto recovery Auto recovery

#### General

Insulation Resistance Efficiency **MTBF** 

- 50MΩ Min.
- Level VI compliant
- 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: UL62368-1
- cUL: cUL62368-1

**EMC** Approvals

#### Warranty

Warranty Period

3 years

#### Dimensions and Notes

Dimensions in mm Tolerance

Size

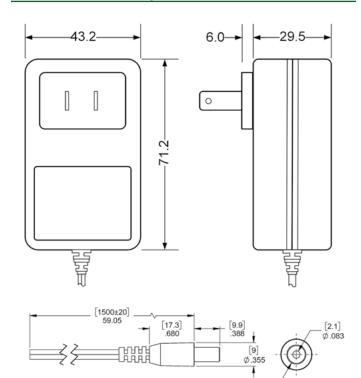
± 0.2mm

- 71.2 x 43.2 x 29.5 mm 2.80 x 1.70 x 1.16 Inches
- Weight Approx. 150g (4.3oz.) 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



2021-02