# L6R24/L6R30 Series

# 24W/30W 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.
L6R24-090	ITE	Corded Jack	+9.0V	0	2.7	_	±5%	< ± 1%	± 1%	± 5%
L6R24-120	ITE	Corded Jack	+12.0V	0	2.0	_	±5%	< ± 1%	± 1%	± 5%
L6R24-180	ITE	Corded Jack	+18.0V	0	1.3	_	±5%	< ± 1%	± 1%	± 5%
L6R24-240	ITE	Corded Jack	+24.0V	0	1.0	_	±5%	< ± 1%	± 1%	± 5%
L6R24-300	ITE	Corded Jack	+30.0V	0	0.8	_	±5%	< ± 1%	± 1%	± 5%
L6R24-360	ITE	Corded Jack	+36.0V	0	0.7	_	±5%	< ± 1%	± 1%	± 5%
L6R30-090	ITE	Corded Jack	+9.0V	0	3.3	_	±5%	< ± 1%	± 1%	± 5%
L6R30-120	ITE	Corded Jack	+12.0V	0	2.5	_	±5%	< ± 1%	± 1%	± 5%
L6R30-180	ITE	Corded Jack	+18.0V	0	1.67	_	±5%	< ± 1%	± 1%	± 5%
L6R30-240	ITE	Corded Jack	+24.0V	0	1.25	_	±5%	< ± 1%	± 1%	± 5%
L6R30-300	ITE	Corded Jack	+30.0V	0	1.0	_	±5%	< ± 1%	± 1%	± 5%
L6R30-360	ITE	Corded Jack	+36.0V	0	0.83	_	±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.





# L6R24/L6R30 Series

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

This economical, 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 36.0Vdc (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 36.0 Vdc

L6R24: 667 - 3500mA, 24W Max. L6R30: 833 - 3500mA, 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

240mVp-p Max. Auto recovery Auto recovery

± 5%

Short Circuit Protection

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: UL60950-1

cUL: UL60950-1

**EMC** Approvals

## Warranty

Warranty Period

1 year

## **Dimensions and Notes**

Dimensions in mm Tolerance

± 0.2mm

Size

71.2 x 43.2 x 29.0 mm 2.80 x 1.70 x 1.14 Inches

Weight

Approx. 140g (4.9oz.)

Connectors

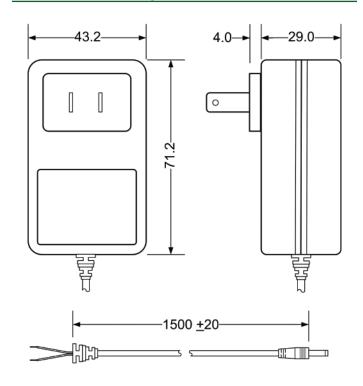
AC input, US 2-prong inlet plug DC output, standard 5.5mm x 2.1mm

corded dc output jack or per customer specification.

Cord length

1500 ± 20 mm (59 ± .8")

# Mechanical Drawing



2017-03