L6R24D / L6R30D Series

24W & 30W Desktop Power Supplies

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL Safety Approved
- Corded Output Connection
- IEC 60320 C8 AC input connector
- · Light Weight and Compact



Model No.¹	Application	Output Connector	Output Voltage	Output Current			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R24D-090	ITE	Corded Jack	+9.0V	0	2.7	_	±5%	< ± 1%	± 1%	± 5%
L6R24D-120	ITE	Corded Jack	+12.0V	0	2.0	_	±5%	< ± 1%	± 1%	± 5%
L6R24D-180	ITE	Corded Jack	+18.0V	0	1.3	_	±5%	< ± 1%	± 1%	± 5%
L6R24D-240	ITE	Corded Jack	+24.0V	0	1.0	-	±5%	< ± 1%	± 1%	± 5%
L6R24D-300	ITE	Corded Jack	+30.0V	0	0.8	_	±5%	< ± 1%	± 1%	± 5%
L6R24D-360	ITE	Corded Jack	+36.0V	0	0.7	-	±5%	< ± 1%	± 1%	± 5%
L6R30D-090	ITE	Corded Jack	+9.0V	0	3.3	_	±5%	< ± 1%	± 1%	± 5%
L6R30D-120	ITE	Corded Jack	+12.0V	0	2.5	_	±5%	< ± 1%	± 1%	± 5%
L6R30D-180	ITE	Corded Jack	+18.0V	0	1.67	_	±5%	< ± 1%	± 1%	± 5%
L6R30D-240	ITE	Corded Jack	+24.0V	0	1.25	_	±5%	< ± 1%	± 1%	± 5%
L6R30D-300	ITE	Corded Jack	+30.0V	0	1.0	_	±5%	< ± 1%	± 1%	± 5%
L6R30D-360	ITE	Corded Jack	+36.0V	0	0.83	-	±5%	< ± 1%	± 1%	± 5%

- 1. Add "C8" suffix for the required AC input connector configuration.
- 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.





L6R24D / L6R30D Series

Whether powering stationary or charging portable devices, this desktop power supply is reliable and economical.

DOE Level VI compliant. Rated up to 30W. Voltage

levels from 5.0Vdc to 36.0Vdc (in increments of 0.1V), to match your specifications.

Call us (800-657-0853) for the part number to match your particular need.

Specifications

Input

Input Voltage Input Frequency No Load Input Power Input Current

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

L6R24D: 667 - 3500mA, 24W Max.
 L6R30D: 833 - 3500mA, 30W Max.

L6R30D: 833 - 3500m/
 No min. load required.

± 1% at rated load across input

voltage range

± 5%

Load Regulation
Ripple & Noise
Overvoltage Protection

Short Circuit Protection

Overload Protection

240mVp-p Max.Auto recoveryAuto recoveryAuto recovery

General

Insulation Resistance Efficiency MTBF

• 50M Ω 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

FCC

Warranty

Warranty Period

• 1 year

Dimensions and Notes

Dimensions in mm

Tolerance

± 0.2mm

Size

91.9 x 45.4 x 27.5 mm

• 3.62 x 1.79 x 1.14 Inches

Weight

Approx. 140g (4.9oz.)

Connectors

AC input; IEC 60320 C8 connector

 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

