

## 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. <sup>1</sup> | Application | Output Connector | Output Voltage | Output Current |       |      | Voltage Accuracy | Ripple Noise | Line Reg. | Load Reg. |
|------------------------|-------------|------------------|----------------|----------------|-------|------|------------------|--------------|-----------|-----------|
|                        |             |                  |                | Min            | Rated | Peak |                  |              |           |           |
| 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%      |

- 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. 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.

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

### Output

|                          |  |
|--------------------------|--|
| Output Voltage Range     | • 5.0 to 36.0 Vdc  |
| Output Current Range     | • L6R24D: 667 - 3500mA, 24W Max.<br>• L6R30D: 833 - 3500mA, 30W Max. |
| Minimum Load             | • No min. load required.   |
| Line Regulation          | • $\pm 1\%$ at rated load across input voltage range                 |
| Load Regulation          | • $\pm 5\%$  |
| Ripple & Noise           | • 240mVp-p Max.  |
| Overvoltage Protection   | • Auto recovery  |
| Overload Protection      | • Auto recovery  |
| Short Circuit Protection | • Auto recovery  |

### General

|                       |  |
|-----------------------|--|
| Insulation Resistance | • 50M $\Omega$ Min.                    |
| Efficiency            | • Level VI compliant                   |
| MTBF                  | • 50,000 hrs to MIL-HDBK-217F at +25°C |

### Environmental

|                       |                               |
|-----------------------|-------------------------------|
| Operating Temperature | • 0°C to 40°C                 |
| Operating Humidity    | • 5% - 95% RH, Non-Condensing |
| Storage Temperature   | • -20°C to +80°C              |

### EMC & Safety

|                  |                                     |
|------------------|-------------------------------------|
| Safety Approvals | • UL: UL60950-1<br>• cUL: UL60950-1 |
| EMC Approvals    | • FCC                               |

### Warranty

|                 |          |
|-----------------|----------|
| Warranty Period | • 1 year |
|-----------------|----------|

### Dimensions and Notes

|                  |  |
|------------------|--|
| Dimensions in mm |  |
| Tolerance        | • $\pm 0.2\text{mm}$   |
| Size             | • 91.9 x 45.4 x 27.5 mm<br>• 3.62 x 1.79 x 1.14 Inches   |
| Weight           | • Approx. 140g (4.9oz.)  |
| Connectors       | • AC input; IEC 60320 C8 connector<br>• DC output, standard 5.5mm x 2.1mm corded dc output jack or per customer specification. |
| Cord length      | • 1500 $\pm$ 20 mm (59 $\pm$ .8")  |

### Mechanical Drawing

