

L6R160D Series**160W Desktop Power Supply**

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL/IEC 62368-1 Approved
- Corded Output Connection
- IEC 60320 C6 and C14 AC input connectors
- Light Weight and Compact



| Model No. ¹ | Application | Output Connector | Output Voltage | Output Current (A) | | | Voltage Accuracy | Ripple Noise | Line Reg. | Load Reg. |
|------------------------|-------------|-----------------------|----------------|--------------------|-------|------|------------------|--------------|-----------|-----------|
| | | | | Min | Rated | Peak | | | | |
| L6R160D-120 | ITE | 4-Pin Circular DIN | +12.0V | 0 | 12.50 | — | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160D-150 | ITE | | +15.0V | 0 | 10.00 | — | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160D-190 | ITE | | +19.0V | 0 | 8.40 | — | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160D-240 | ITE | | +24.0V | 0 | 6.60 | — | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160D-480 | ITE | | +48.0V | 0 | 3.30 | — | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160D-560 | ITE | | +56.0V | 0 | 2.86 | — | ±5% | < ± 2% | ± 1% | ± 5% |

1. Add "C6" or "C14" for the required AC input connector configuration.

- 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.

L6R160D Series

Innovative, reliable, and inexpensive. This economical DOE Level VI compliant power supply/charger is available in a variety of voltage levels,

12.0 to 56.0Vdc (per the model number table) to match your needs. Rated up to 160W when powering either stationary or charging portable devices.

Specifications

Input

| | |
|---------------------|-----------------------|
| Input Voltage | • 90 Vac ~ 264 Vac |
| Input Frequency | • 47 Hz to 63 Hz |
| No Load Input Power | • < 0.15W |
| Input Current | • 2.2A Max. |
| Inrush Current | • 60A Max. / 230Vac |
| Leakage Current | • 3.5mA Max. |
| Input Connection | • IEC 60320 C6 or C14 |

Output

| | |
|--------------------------|--|
| Output Voltage Range | • 12.0 to 56.0Vdc |
| Output Current Range | • 12.5 to 2.86A |
| Minimum Load | • No min. load required. |
| Line Regulation | • $\pm 1\%$ at rated load across input voltage range |
| Load Regulation | • $\pm 5\%$ (typical) |
| Ripple & Noise | • 2% Vp-p Max. @ full load |
| Overvoltage Protection | • Auto recovery |
| Overload Protection | • Auto recovery |
| Short Circuit Protection | • Auto recovery |

General

| | |
|----------------------|---|
| Dielectric Withstand | • 3,000Vac Primary to Secondary |
| Efficiency | • Level VI, ErP Stage 2, CoC Tier 2 compliant |
| MTBF | • 300,000 hrs. @ 25°C per Telcordia SR-332 |

Environmental

| | |
|-----------------------|--------------------------------|
| Operating Temperature | • 0°C to 40°C |
| Operating Humidity | • 20 to 80% RH, Non-Condensing |
| Storage Temperature | • -20°C to +80°C |
| Storage Humidity | • 10 to 90%, Non-Condensing |

EMC & Safety

| | |
|------------------|-----------------------------------|
| Safety Approvals | • UL/cUL: UL/cUL 62368-1, 60950-1 |
| | • CE: IEC 62368-1, 60950-1 |
| EMC Approvals | • FCC |

Warranty

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

Dimensions and Notes

| | |
|--------------------|---|
| Dimensions in mm | |
| Tolerance | • $\pm 0.2\text{mm}$ |
| Size | • L 175 x W 74 x H 42 (mm) L 6.89" x W 2.91" x H 1.65" |
| Weight | • Approx. 700g (1.54 lb.) (Ref.) |
| Connectors | • AC input; IEC 60320 C6 or C14 connector |
| | • DC output; 4-pin circular DIN output connector or per customer specification. |
| Output Cord length | • L6R160D-120: 1200 \pm 30 mm (47.2 \pm 1.2") All other P/Ns: 1500 \pm 30 mm (59 \pm 1.2") |

Mechanical Drawing

