L6R90D Series

90W Desktop Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL Safety 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 | Ripple | Line | Load |
|------------------------|-------------|--|-------------------|--------------------|-------|------|----------|--------|------|------|
| | | | | Min | Rated | Peak | Accuracy | Noise | Reg. | Reg. |
| L6R90D-120 | ITE | 2.5mm I.D. x 5.5mm O.D. x 9.5mm Barrel | +12.0V | 0 | 7.00 | _ | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-150 | ITE | | +15.0V | 0 | 6.00 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-160 | ITE | | +16.0V | 0 | 5.63 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-180 | ITE | | +18.0V | 0 | 5.00 | _ | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-190 | ITE | | +19.0V | 0 | 4.74 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-200 | ITE | | +20.0V | 0 | 4.50 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-240 | ITE | | +24.0V | 0 | 3.75 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-300 | ITE | | +30.0V | 0 | 3.00 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-480 | ITE | | +48.0V | 0 | 1.88 | _ | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R90D-560 | ITE | | +56.0V | 0 | 1.60 | - | ±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.





L6R90D Series

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

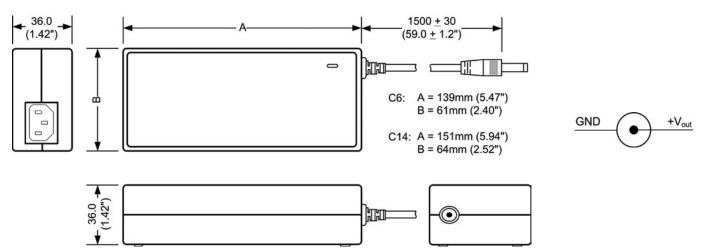
12.0 to 56.0Vdc (per the model number table) to match your needs. Rated up to 90W when powering either stationary or charging portable devices.

• 1500 ±30 mm (59 ±1.2")

Specifications

Environmental Input Input Voltage 90 Vac ~ 264 Vac Operating Temperature 0°C to 40°C 47 Hz to 63 Hz 20 to 80% RH. Non-Condensing Input Frequency Operating Humidity No Load Input Power < 0.21WStorage Temperature -20°C to +80°C Input Current 1.2A Max. Storage Humidity 10 to 90%, Non-Condensing Inrush Current 60A Max. / 230Vac EMC & Safety Leakage Current 3.5mA Max. IEC 60320 C6 or C14 Input Connection Safety Approvals UL/cUL: UL60950-1 CE: IEC 60950-1 Output **EMC Approvals** FCC 12.0 to 56.0Vdc Output Voltage Range Warranty **Output Current Range** 1.6 to 7.0A Minimum Load No min. load required. Warranty Period • 1 year Line Regulation ± 1% at rated load across input Dimensions and Notes voltage range Load Regulation ± 5% (typical) Dimensions in mm Ripple & Noise 2% Vp-p Max. @ full load Tolerance + 0.2 mmOvervoltage Protection Auto recovery Size C6: L 139 x W 61 x H 36 (mm) Overload Protection Auto recovery L 5.5" x W 2.4" x H 1.4" Short Circuit Protection Auto recovery C14: L 151 x W 64 x H 36 (mm) L 5.9" x W 2.5" x H 1.4" General Weight Approx. 460g (1.0 lb.) Dielectric Withstand • 3,000Vac Primary to Secondary Connectors AC input; IEC 60320 C6 or C14 connector Efficiency Level VI, ErP Stage 2, CoC Tier 2 compliant DC output; Standard 2.5mm x 5.5mm x **MTBF** 300,000 hrs. @ 25°C per Telcordia SR-332 9.5mm barrel connector or per customer specification.

Mechanical Drawing



Output Cord length

2017-10