

L6R50D Series

50W 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, C8 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				
L6R50D-050C14	ITE	4-Pin Circular DIN	+5.0V	0	10.00	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-090	ITE	2.5mm I.D. x 5.5mm O.D. x 9.5mm Barrel	+9.0V	0	5.00	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-120	ITE		+12.0V	0	4.20	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-135	ITE		+13.5V	0	3.71	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-150	ITE		+15.0V	0	3.34	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-180	ITE		+18.0V	0	2.78	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-190	ITE		+19.0V	0	2.64	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-240	ITE		+24.0V	0	2.10	—	±5%	< ± 2%	± 1%	± 5%
L6R50D-480	ITE		+48.0V	0	1.05	—	±5%	< ± 2%	± 1%	± 5%

1. An IEC 60320 C8 connector is the standard AC input configuration. For alternate input connector options, add "C6" or "C14" to designate the desired input 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.

L6R50D Series

Innovative, reliable, and inexpensive. This economical DOE Level VI compliant power supply/charger is available in a variety of voltage levels, 5.0 to 48.0Vdc

(per the model number table) to match your needs. Rated up to 50W 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	• 1.2A Max.
Inrush Current	• 60A Max. / 230Vac
Leakage Current	• 0.25mA Max. (2-pin), 3.5mA Max. (3-pin)
Input Connection	• IEC 60320 C6, C8 or C14

Output

Output Voltage Range	• 5.0 to 48.0Vdc
Output Current Range	• 10 to 1.05A
Minimum Load	• No min. load required.
Line Regulation	• ± 1% at rated load across input voltage range
Load Regulation	• ± 5% (typical)
Ripple & Noise	• 2% Vp-p Max. @ full load
Overvoltage Protection	• Auto recovery
Overload Protection	• Auto recovery
Short Circuit Protection	• Auto recovery

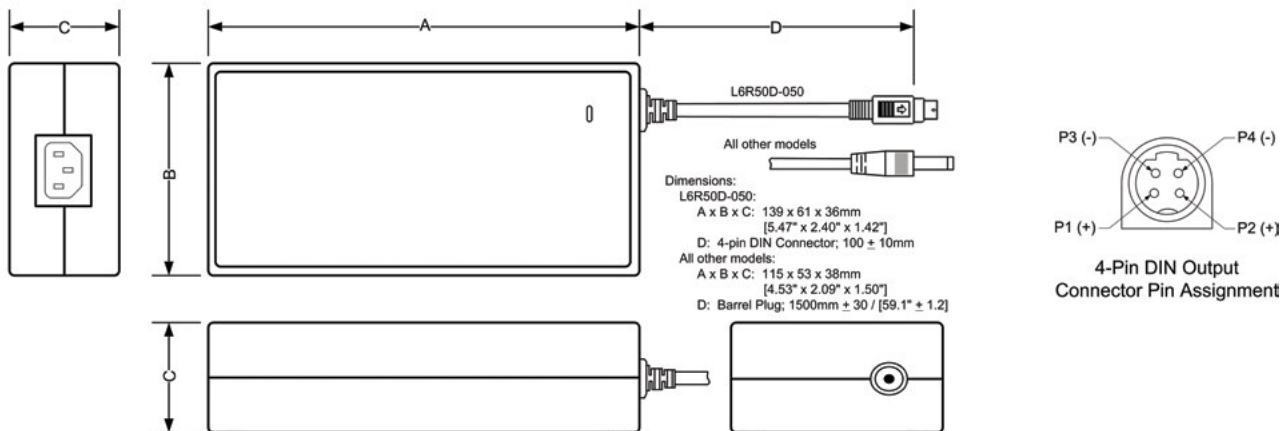
General

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

Mechanical Drawing



EMC & Safety

Safety Approvals	• UL/cUL: UL60950-1
	• CE: IEC 60950-1
EMC Approvals	• FCC

Warranty

Warranty Period	• 1 year
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Dimensions and Notes

Dimensions in mm	
Tolerance	• ± 0.2mm
Size	• L6R50D-050: L 139 x W 61 x H 36 (mm) L 5.5" x W 2.4" x H 1.4" All Others: L 115 x W 53 x H 38 (mm) L 4.5" x W 2.1" x H 1.5"
Weight	• Approx. 310g (0.7 lb.)
Connectors	• AC input; IEC 60320 C6, C8 or C14 connector • L6R50D-050: Circular 4-pin DIN Connector All Other models: DC output, standard 5.5mm x 2.1mm corded dc output jack or per customer specification. • AC Input: IEC 60320 C8 is standard. Add "C6" or "C14" for optional input connections. • DC output: -050C14: 4-pin circular DIN All other models: Standard 2.5mm x 5.5mm x 9.5mm corded dc output barrel or per customer specification.
Output Cord length	• L6R50D-050C14: 100 ± 10mm (3.94 ± 0.39") All Other Models: 1500 ± 30 mm (59 ± 1.2")