GREEN POWER

L6R250D Series

250W 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
- RoHS Compliant Class II Design

Description

Innovative, reliable, and inexpensive. This economical, Class II design is a 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 250W when powering either stationary or charging portable devices.

Model No.[1]	Application	Output Connector	Output Voltage	Output Current (A)			Voltage Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
L6R250D-120	ITE	6-Pin Rectangular	+12.0V	0	20.00	—	±5%	< ± 2%	± 1%	± 5%
L6R250D-190	ITE	6-Pin Rectangular	+19.0V	0	13.20	—	±5%	< ± 2%	± 1%	± 5%
L6R250D-240	ITE	6-Pin Rectangular	+24.0V	0	10.42	—	±5%	< ± 2%	± 1%	± 5%
L6R250D-480	ITE	6-Pin Rectangular	+48.0V	0	5.20	—	±5%	< ± 2%	± 1%	± 5%
L6R250D-560	ITE	6-Pin Rectangular	+56.0V	0	4.48	—	±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.

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L6R250D Series

Specifications

Input

Input Voltage	• 90 Vac ~ 264 Vac
Input Frequency	• 47 Hz to 63 Hz
No Load Input Power	• < 0.15W
Input Current	• 3.3A 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	• 20.0 to 4.48A
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. @ 25ºC 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
Altitude for Operation	• 5000M

EMC & Safety

Safety Approvals	• UL/cUL: UL/cUL 62368-1, 60950-1 • CE: IEC 62368-1, 60950-1		
EMC Approvals	• FCC		
Harmonic Currents	• EN61000-3-2 Class A		
EMI	• EN 55022/CISPR 22 Class B, EN61000-3-3		
ESD Immunity	• EN 61000-4-2 ;	±8KV as air discharge ±4KV as contact discharge	Criterion A Criterion A
Radiated Immunity	• EN 61000-4-3;	3V/m 80% AM @ 1kHz	Criterion A
EFT Burst	• EN 61000-4-4;	±1KV	Criterion A
Surge	• EN 61000-4-5;	L-N: ±1KV L-PE: ±2KV N-PE: ±2KV	Criterion A Criterion A Criterion A
Conducted Immunity	• EN 61000-4-6;	0.15~80 MHz, 3Vrms, 80% AM, 1KHz	Criterion A
Magnetic Fields	• EN 61000-4-8;	1A/m at 50Hz	Criterion A
Dips, Dropouts & Interruptions	• EN 61000-4-11;	Reduction 95% 10ms Reduction 30% 500ms Reduction 95% 5000ms	Criterion A Criterion A Criterion B

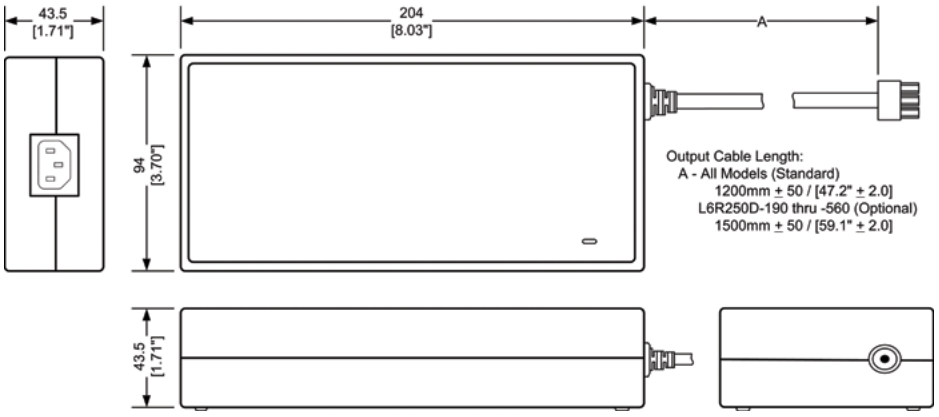
Warranty

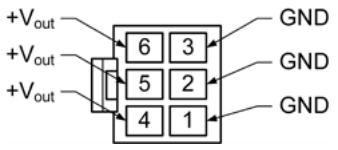
Warranty Period	• 1 year

Dimensions and Notes

Dimensions in mm Tolerance	• ± 0.2mm
Size	• L 204 x W 94 x H 43.5 (mm) L 8.03” x W 3.70” x H 1.71”
Weight	• Approx. 1040g (2.3 lb.) (Ref.)
Connectors	• AC input; IEC 60320 C6 or C14 connector • DC output; 6-pin (2x3) rectangular dc output connector or per customer specification.
Output Cord length	• 1200 ±30 mm (47.2 ±1.2”)

Mechanical Drawing





AS VIEWED FROM THE MATING END

2022-02