

**L6R120D Series****120W 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



Model No. <sup>1</sup>	Application	Output Connector	Output Voltage	Output Current (A)			Voltage Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
L6R120D-120	ITE	4-Pin Circular DIN	+12.0V	0	9.00	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-150	ITE		+15.0V	0	8.00	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-160	ITE		+16.0V	0	7.50	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-180	ITE		+18.0V	0	6.60	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-190	ITE		+19.0V	0	6.30	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-200	ITE		+20.0V	0	6.00	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-240	ITE	2.5mm I.D. x 5.5mm O.D. x 9.5mm Barrel	+24.0V	0	5.00	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-300	ITE		+30.0V	0	4.00	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-480	ITE		+48.0V	0	2.50	—	±5%	< ± 2%	± 1%	± 5%
L6R120D-560	ITE		+56.0V	0	2.14	—	±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.

# L6R120D Series

Innovative, reliable, and inexpensive. This Class II design is an 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 120W 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	• < 0.21W
Input Current	• 1.6A 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	• 2.14 to 9.00A
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 168 x W 66 x H 39 (mm)
	• L 6.61" x W 2.60" x H 1.54"
Weight	• Approx. 600g (1.3 lb.) (Ref.)
Connectors	• AC input; IEC 60320 C6 or C14 connector
	• DC output; -120 thru -200: 4-pin circular DIN
	-240 thru -560: 2.5mm I.D. x 5.5mm O.D. x 9.5mm barrel or per customer specification.
Output Cord length	• -120 thru -200: 1200 $\pm 30\text{mm}$ (47.3 $\pm 1.2$ ")
	• -240 thru -560: 1500 $\pm 30\text{mm}$ (59.1 $\pm 1.2$ ")

## Mechanical Drawing

