## 90W 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. <sup>1</sup>	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.

## **Specifications**

Input		Environmental					
Input Voltage	• 90 Vac ~ 264 Vac	Operating Temperature	• 0°C to 40°C				
Input Frequency	• 47 Hz to 63 Hz	Operating Humidity	20 to 80% RH, Non-Condensing				
No Load Input Power	• < 0.21W	Storage Temperature	<ul> <li>-20°C to +80°C</li> </ul>				
Input Current	• 1.2A Max.	Storage Humidity	<ul> <li>10 to 90%, Non-Condensing</li> </ul>				
Inrush Current • 60A Max. / 230Vac Leakage Current • 3.5mA Max.		EMC & Safety					
Input Connection	<ul> <li>IEC 60320 C6 or C14</li> </ul>	Safety Approvals	• UL/cUL: UL/cUL 62368-1, 60950-1				
Output		EMC Approvals	<ul><li>CE: IEC 62368-1, 60950-1</li><li>FCC</li></ul>				
Output Voltage Range	• 12.0 to 56.0Vdc						
Output Current Range	<ul> <li>1.6 to 7.0A</li> </ul>	Warranty					
Minimum Load	No min. load required.	Warranty Period	• 1 year				
Line Regulation	Regulation • ± 1% at rated load across input voltage range		Dimensions and Notes				
Load Regulation	• ± 5% (typical)	Dimensions in mm					
Ripple & Noise	<ul> <li>2% Vp-p Max. @ full load</li> </ul>	Tolerance	• ± 0.2mm				
Overvoltage Protection	Auto recovery	Size	<ul> <li>C6: L 139 x W 61 x H 36 (mm)</li> </ul>				
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	<ul> <li>Approx. 460g (1.0 lb.)</li> </ul>				
Dielectric Withstand Efficiency	<ul> <li>3,000Vac Primary to Secondary</li> <li>Level VI, ErP Stage 2, CoC Tier 2 compliant</li> </ul>	Connectors	<ul> <li>AC input; IEC 60320 C6 or C14 connector</li> </ul>				
MTBF	300,000 hrs. @ 25°C per Telcordia SR-332		<ul> <li>DC output; Standard 2.5mm x 5.5mm x 9.5mm barrel connector or per customer specification.</li> </ul>				
		Output Cord length	<ul> <li>1500 ±30 mm (59 ±1.2")</li> </ul>				

## Mechanical Drawing

