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. 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.

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	 -20°C to +80°C 				
Input Current	• 1.2A Max.	Storage Humidity	 10 to 90%, Non-Condensing 				
Inrush Current • 60A Max. / 230Vac Leakage Current • 3.5mA Max.		EMC & Safety					
Input Connection	 IEC 60320 C6 or C14 	Safety Approvals	• UL/cUL: UL/cUL 62368-1, 60950-1				
Output		EMC Approvals	CE: IEC 62368-1, 60950-1FCC				
Output Voltage Range	• 12.0 to 56.0Vdc						
Output Current Range	 1.6 to 7.0A 	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	 2% Vp-p Max. @ full load 	Tolerance	• ± 0.2mm				
Overvoltage 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 Efficiency	 3,000Vac Primary to Secondary Level VI, ErP Stage 2, CoC Tier 2 compliant 	Connectors	 AC input; IEC 60320 C6 or C14 connector 				
MTBF	300,000 hrs. @ 25°C per Telcordia SR-332		 DC output; Standard 2.5mm x 5.5mm x 9.5mm barrel connector or per customer specification. 				
		Output Cord length	 1500 ±30 mm (59 ±1.2") 				

Mechanical Drawing

