L6R90D Series

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		+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	2.5mm I.D. x 5.5mm O.D. x	+19.0V	0	4.74	_	±5%	< ± 2%	± 1%	± 5%
L6R90D-200	ITE	9.5mm Barrel	+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.





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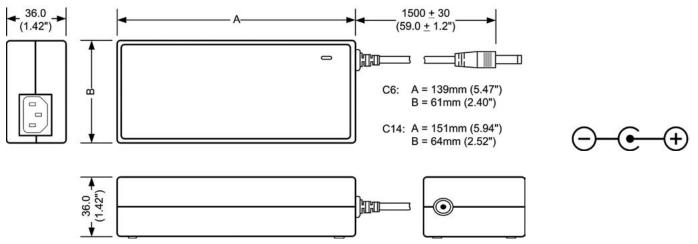
Innovative, reliable, and inexpensive. This economical DOE Level VI compliant power supply/ charger is available in a variety of voltage levels,

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 Input Frequency No Load Input Power Input Current Inrush Current	 90 Vac ~ 264 Vac 47 Hz to 63 Hz < 0.21W 1.2A Max. 60A Max. / 230Vac 	Operating Temperature Operating Humidity Storage Temperature Storage Humidity	 0°C to 40°C 20 to 80% RH, Non-Condensing -20°C to +80°C 10 to 90%, Non-Condensing 				
Leakage Current Input Connection	3.5mA Max.IEC 60320 C6 or C14	EMC & Safety Safety Approvals	 UL/cUL: UL/cUL 62368-1, 60950-1 CE: IEC 62368-1, 60950-1 				
Output Output Voltage Range Output Current Range	12.0 to 56.0Vdc1.6 to 7.0A	EMC Approvals Warranty	• FCC				
Minimum Load Line Regulation	 No min. load required. ± 1% at rated load across input voltage range 	Warranty Period • 1 year Dimensions and Notes					
Load Regulation Ripple & Noise Overvoltage Protection Overload Protection Short Circuit Protection	 ± 5% (typical) 2% Vp-p Max. @ full load Auto recovery Auto recovery Auto recovery 	Dimensions in mm Tolerance Size	 ± 0.2mm C6: L 139 x W 61 x H 36 (mm) L 5.5" x W 2.4" x H 1.4" C14: L 151 x W 64 x H 36 (mm) L 5.9" x W 2.5" x H 1.4" 				
Dielectric Withstand Efficiency MTBF	 3,000Vac Primary to Secondary Level VI, ErP Stage 2, CoC Tier 2 compliant 300,000 hrs. @ 25°C per Telcordia SR-332 	Weight Connectors Output Cord length	 Approx. 460g (1.0 lb.) AC input; IEC 60320 C6 or C14 connector DC output; Standard 2.5mm x 5.5mm x 9.5mm barrel connector or per customer specification. 1500 ±30 mm (59 ±1.2") 				

Mechanical Drawing



2020-12