



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## L6R90D Series

# 90W Desktop Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- UL/cUL Safety 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 Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
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

Input Voltage	• 90 Vac ~ 264 Vac
Input Frequency	• 47 Hz to 63 Hz
No Load Input Power	• < 0.21W
Input Current	• 1.2A 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	• 1.6 to 7.0A
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: UL60950-1
	• CE: IEC 60950-1
EMC Approvals	• FCC

### Warranty

Warranty Period	• 1 year
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### Dimensions and Notes

Dimensions in mm	
Tolerance	• $\pm 0.2\text{mm}$
Size	• 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"
Weight	• Approx. 460g (1.0 lb.)
Connectors	• 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.
Output Cord length	• 1500 $\pm$ 30 mm (59 $\pm$ 1.2")

## Mechanical Drawing

