L6R120D Series

120W Desktop Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- cULus and CE 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.
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 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 Input Frequency No Load Input Power Input Current

Inrush Current Leakage Current Input Connection

- 90 Vac ~ 264 Vac
- 47 Hz to 63 Hz
- < 0.21W
- 1.6A Max.
- 60A Max. / 230Vac
- 3.5mA Max.
- IEC 60320 C6 or C14

Output

Output Voltage Range **Output Current Range** Minimum Load Line Regulation

- 12.0 to 56.0Vdc
- 2.14 to 9.00A
- No min. load required.
- ± 1% at rated load across input voltage range

Load Regulation

2% Vp-p Max. @ full load Ripple & Noise

Overvoltage Protection Overload Protection **Short Circuit Protection** Auto recovery Auto recovery

± 5% (typical)

Auto recovery

General

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

Environmental

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

EMC & Safety

UL/cUL: UL60950-1 Safety Approvals CE: IEC 60950-1

EMC Approvals FCC

Warranty

Warranty Period 1 year

Dimensions and Notes

Dimensions in mm Tolerance

± 0.2mm Size

L 168 x W 66 x H 39 (mm) L 6.61" x W 2.60" x H 1.54"

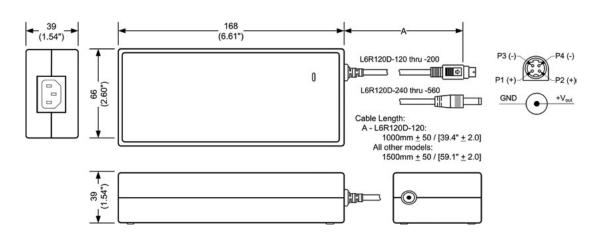
Weight Approx. 590g (1.3 lb.)

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 1500 ±30 mm (59 ±1.2")

Mechanical Drawing



2017-10