# **L6R120D Series**

# 120W 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
- RoHS Compliant Class II Design



Model No.¹	Application	Output Connector	Output Voltage	Outrout Commant (A)					Line	Load
				Output Current (A)			Voltage	Ripple		
				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%

<sup>1.</sup> 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 Class II design is an 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**

Safety Approvals

**EMC** Approvals

- UL/cUL: UL/cUL 62368-1, 60950-1
- CE: IEC 62368-1, 60950-1
- FCC

## Warranty

Warranty Period

1 year

## Dimensions and Notes

Dimensions in mm Tolerance

Size

± 0.2mm

L 168 x W 66 x H 39 (mm)

L 6.61" x W 2.60" x H 1.54"

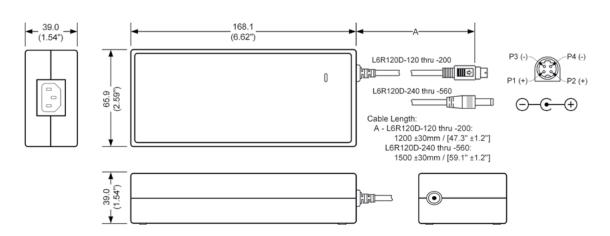
Weight Connectors Approx. 600g (1.3 lb.) (Ref.) AC input; IEC 60320 C6 or C14 connector

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

- -120 thru -200: 1200 ±30mm (47.3 ±1.2")
- -240 thru -560: 1500 ±30mm (59.1 ±1.2")

# Mechanical Drawing



2021-01