L6R300D Series

300W 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	Output Current (A)			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R300D-120	ITE	6-Pin rectangular	+12.0V	0	24.00	_	±5%	< ± 2%	± 1%	± 5%
L6R300D-190	ITE	6-Pin rectangular	+19.0V	0	15.78	_	±5%	< ± 2%	± 1%	± 5%
L6R300D-240	ITE	6-Pin rectangular	+24.0V	0	12.50	_	±5%	< ± 2%	± 1%	± 5%
L6R300D-480	ITE	6-Pin rectangular	+48.0V	0	6.25	_	±5%	< ± 2%	± 1%	± 5%
L6R300D-560	ITE	6-Pin rectangular	+56.0V	0	5.36	_	±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.





L6R300D Series

Innovative, reliable, and inexpensive. This economical, Class II design is a 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 300W 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

< 0.5W

3.9A 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

24.0 to 5.36A

No min. load required.

± 1% at rated load across input voltage range

Load Regulation

Ripple & Noise Overvoltage Protection

Overload Protection Short Circuit Protection 2% Vp-p Max. @ full load

Auto recovery Auto recovery Auto recovery

± 5% (typical)

General

Dielectric Withstand Efficiency

• 3,000Vac Primary to Secondary

Level VI, ErP Stage 2, CoC Tier 2 compliant

MTBF 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

UL/cUL: UL/cUL 62368-1, 60950-1

CE: IEC 62368-1, 60950-1

EMC Approvals FCC

Warranty

Warranty Period

• 1 year

Dimensions and Notes

Dimensions in mm Tolerance

Size

Weight

± 0.2mm

L 254 x W 116 x H 47 (mm) L 10.00" x W 4.57" x H 1.85"

Approx. 1600g (3.52 lb.) (Ref.) Connectors

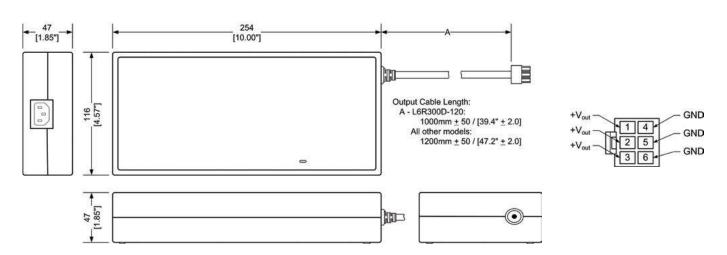
AC input; IEC 60320 C6 or C14 connector

DC output; 6-pin (2x3) rectangular output connector or per customer specification.

Output Cord length

L6R300D-120: 1000 ±30 mm (39.4 ±1.2") All other P/Ns: 1200 ±30 mm (47.2 ±1.2")

Mechanical Drawing



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