GREEN POWER

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

Description

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.

Model No.[1]	Application	Output Connector	Output Voltage	Output Current (A)			Voltage Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
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.

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L6R300D Series

Specifications

Input

Input Voltage	•	90 Vac ~ 264 Vac
Input Frequency	•	47 Hz to 63 Hz
No Load Input Power	•	< 0.5W
Input Current	•	3.9A 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	•	24.0 to 5.36A
Minimum Load	•	No min. load required.
Line Regulation	•	± 1% at rated load across input voltage range
Load Regulation	•	± 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. @ 25ºC 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
Altitude for Operation	•	5000M

EMC & Safety

Safety Approvals	•	UL/cUL: UL/cUL 62368-1, 60950-1 CE: IEC 62368-1, 60950-1	
EMC Approvals	•	FCC	
Harmonic Currents	•	EN61000-3-2 Class A	
EMI	•	EN 55022/CISPR 22 Class B, EN61000-3-3	
ESD Immunity	•	EN 61000-4-2 ;	±8KV as air discharge ±4KV as contact discharge
Radiated Immunity	•	EN 61000-4-3;	3V/m 80% AM @ 1kHz
EFT Burst	•	EN 61000-4-4;	±1KV
Surge	•	EN 61000-4-5;	L-N: ±1KV L-PE: ±2KV N-PE: ±2KV
Conducted Immunity	•	EN 61000-4-6;	0.15~80 MHz, 3Vrms, 80% AM, 1KHz
Magnetic Fields	•	EN 61000-4-8;	1A/m at 50Hz
Dips, Dropouts & Interruptions	•	EN 61000-4-11;	Reduction 95% 10ms Reduction 30% 500ms Reduction 95% 5000ms

Criterion A
Criterion A
Criterion A
Criterion A
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Criterion A
Criterion A Criterion A Criterion B

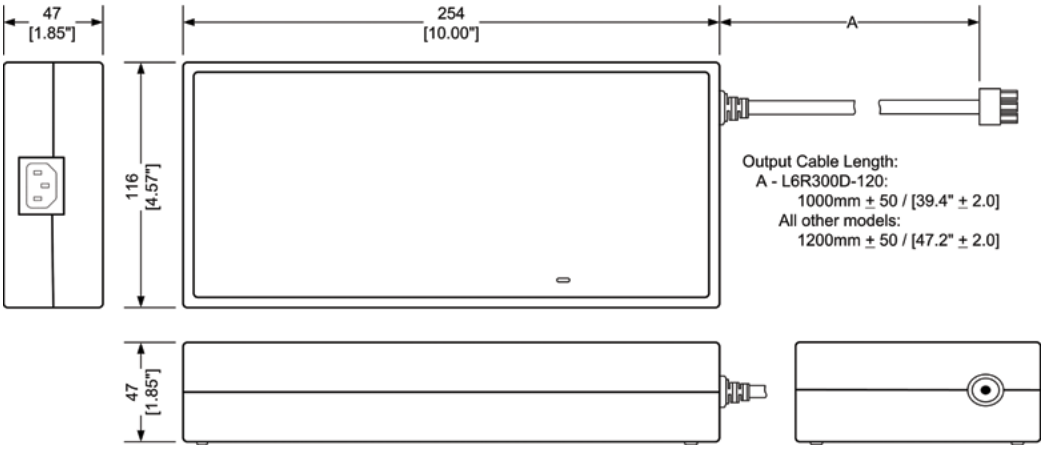
Warranty

Warranty Period	•	1 year

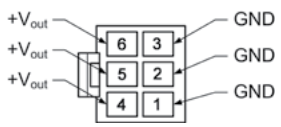
Dimensions and Notes

Dimensions in mm Tolerance	•	± 0.2mm
Size	•	L 254 x W 116 x H 47 (mm) L 10.00" x W 4.57" x H 1.85"
Weight	•	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")

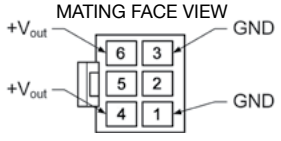
Mechanical Drawing



Output Connector Housing:
Molex P/N: 39-01-2060 or equiv.
Mating connectors: Molex 5559, 5566, 5569 42404, 42440 or equiv.



L6R300D-120
MATING FACE VIEW



L6R300D-190, -240, -480, -560
MATING FACE VIEW

2022-02