

L6R300DM Series

300W Medical Power Supply

- DOE Level VI Efficiency Rating
- Universal Input: 90 ~ 264Vac, 47/63 Hz
- ANSI/AAMI/IEC/EN ES60601-1:2012 Approved
- Means of Protection: 2xMOPP
- Corded Output Connection
- IEC 60320 C14 or C18 AC input connector
- Light Weight and Compact
- 2-Year Warranty



Model No. ¹	Application	Output Connector	Output Voltage	Output Current (A)			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R300DM-120	Medical	8-Pin Rectangular	+12.0V	0	25.00	-	±5%	< ± 2%	± 1%	± 5%
L6R300DM-150	Medical	6-Pin Rectangular	+15.0V	0	20.00	-	±5%	< ± 2%	± 1%	± 5%
L6R300DM-240	Medical	6-Pin Rectangular	+24.0V	0	12.50	-	±5%	< ± 2%	± 1%	± 5%
L6R300DM-480	Medical	6-Pin Rectangular	+48.0V	0	6.25	-	±5%	< ± 2%	± 1%	± 5%

^{1.} Add "C14" or "C18" 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.





L6R300DM Series

Innovative, inexpensive and medical reliability. This economical DOE Level VI compliant medical power supply/charger is available in a variety of voltage levels, 12.0 to 48.0Vdc (per the model number table) to match your needs. Rated up to 300W when powering either stationary or charging portable devices for home healthcare and medical office/ hospital applications.

Specifications

Input

Input Voltage Input Frequency No Load Input Power Input Current Inrush Current

- Leakage Current Input Connection
- 90 Vac ~ 264 Vac, 100~240Vac Nominal
- 47 Hz to 63 Hz
- 3.4A @ 120Vac / 1.6A @ 230Vac
- 60A Max. / 230Vac
- < 100µA
- IEC 60320 C14 or C18

Output

Output Voltages Output Current Minimum Load Line Regulation

- Load Regulation Ripple & Noise Hold-up Time Overvoltage Protection
- Overload Protection Short Circuit Protection

- 12.0, 15.0, 24.0 and 48.0Vdc
- 25.00 to 6.25A
- No min. load required.
- ± 1% at rated load across input voltage range
- ± 5% (typical)
- 2% Vp-p Max. @ full load
- 10mS @ Full Load
- Auto recovery
- Auto recovery
- Auto recovery

General

Dielectric Withstand Efficiency **MTBF**

- 4,000Vac Primary to Secondary
- DoE Level VI, ErP Stage 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

- ANSI/AAMI ES60601-1:2012, edition 3.1 IEC/EN ES60601-1:2012, edition 3.1
- Radiated & Conducted Emissions: EN55011 CISPR 11, Class B Harmonic Current: EN61000-3-2, 3 EMC: IEC60601-1-2:2014, edition 4.0

Harmonic Currents ЕMI **ESD** Immunity

Radiated Immunity

- EN 61000-3-2 Class A
- EN 55022/CISPR 22 Class B; EN 61000-3-3 Criterion A

• EN 61000-4-2, ±15kV/Air ± 8kV/Contact Criterion A • EN 61000-4-3, 10V/m with 80% AM @ 1kH Criterion A

EFT Burst Surge Conducted Immunity Magnetic Fields

- EN 61000-4-4, ±2kV Criterion A EN 61000-4-5, ±1kV/L-L, ±2kV/L-G Criterion A
- EN 61000-4-6, 3V_{ms} 80% AM,1kHz Criterion A • EN 61000-4-8, 30A/m Criterion A • EN 61000-4-11,100% dips Criterion A Dips & Interruptions 10ms

100% dips 20ms Criterion A 30% dips 500ms Criterion B

Warranty

Warranty Period

2 years

Dimensions and Notes

Dimensions in mm Tolerance

Output Cord length

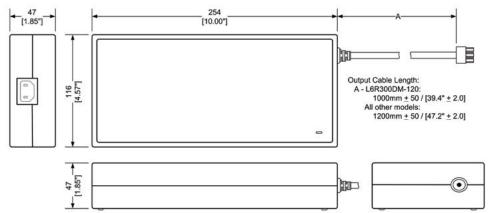
Size

+ 0.2mm

Weight Connectors

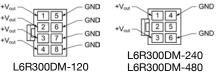
- L 254 x W 116 x H 47 mm L 10.00" x W 4.57" x H 1.85'
- Approx. 1600g [3.52 lbs.] (ref.)
- AC input: IEC 60320 C14 / C18 Connector DC output; Standard 6-pin (2x3) Molex P/N: 39-01-2060 or equivalent connector. See Mechanical Drawing below for mating connector information.
- L6R300DM-120: 1000 ±50 mm [39.37 ±2.0"] All others: 1200 ±50 mm [47.2 ±2.0"]

Mechanical Drawing



Output Connector Housing:

-120: Molex P/N: 39-01-2080 or equiv. All Others: Molex P/N: 39-01-2060 or equiv. Mating connectors: Molex 5559, 5566, 5569 42404, 42440 or equiv.



L6R300DM-150

2019-03