

# **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. <sup>1</sup>	Application	Output Connector	Output Voltage	Output Current (A)			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R300DM-120	Medical	Corded Connector	+12.0V	0	25.00	-	±5%	< ± 2%	± 1%	± 5%
L6R300DM-150	Medical	Corded Connector	+15.0V	0	20.00	_	±5%	< ± 2%	± 1%	± 5%
L6R300DM-240	Medical	Corded Connector	+24.0V	0	12.50	-	±5%	< ± 2%	± 1%	± 5%
L6R300DM-480	Medical	Corded Connector	+48.0V	0	6.25	_	±5%	< ± 2%	± 1%	± 5%

<sup>1.</sup> 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

- 90 Vac ~ 264 Vac, 100~240Vac Nominal
- 47 Hz to 63 Hz
- < 0.15W
- 3.4A @ 120Vac / 1.6A @ 230Vac
- 60A Max. / 230Vac
- < 100uA
- IEC 60320 C14 or C18

## Output

**Output Voltages Output Current** Minimum Load Line Regulation

Input Connection

- 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

Load Regulation

Ripple & Noise Hold-up Time

Overvoltage Protection

Overload Protection Short Circuit Protection

- ± 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

## Warranty

Warranty Period

2 years

#### **Dimensions and Notes**

Dimensions in mm

Tolerance

Connectors

Output Cord length

Size

± 0.2mm

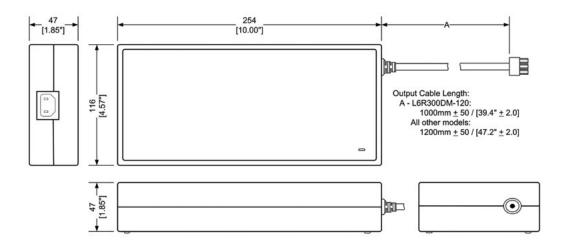
L 254 x W 116 x H 47 mm L 10.00" x W 4.57" x H 1.85"

Weiaht Approx. 1600g [3.52 lbs.] (ref.)

> AC input: IEC 60320 C14 / C18 Connector DC output: Standard 6-pin Molex (or equivalent) connector or per customer specification.

> L6R300DM-120: 1000 ±50 mm [39.37 ±2.0"] All others: 1200 ±50 mm [47.2 ±2.0"]

# Mechanical Drawing



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