

# **L6R120DM Series**

# 120W 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 C6 / C14, C8 / C18 AC input connectors
- 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.
L6R120DM-120	Medical	Corded Connector	+12.0V	0	9.00	_	±5%	< ± 2%	± 1%	± 5%
L6R120DM-150	Medical	Corded Connector	+15.0V	0	8.00	_	±5%	< ± 2%	± 1%	± 5%
L6R120DM-180	Medical	Corded Connector	+18.0V	0	6.67	_	±5%	< ± 2%	± 1%	± 5%
L6R120DM-190	Medical	Corded Connector	+19.0V	0	6.30	_	±5%	< ± 2%	± 1%	± 5%
L6R120DM-200	Medical	Corded Connector	+20.0V	0	6.00	_	±5%	< ± 2%	± 1%	± 5%
L6R120DM-240	Medical	Corded Connector	+24.0V	0	5.00	_	±5%	< ± 2%	± 1%	± 5%
L6R120DM-480	Medical	Corded Connector	+48.0V	0	2.50	_	±5%	< ± 2%	± 1%	± 5%

<sup>1.</sup> Add "C6", C8, "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.





# **L6R120DM 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 120W 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
- < 0.15W
- 1.4A @ 120Vac / 0.5A @ 230Vac
- 60A Max. / 230Vac
- < 100uA</li>
- IEC 60320 C6 / C14 or C8 / C18, dependent upon output voltage and resulting input current

# Output

Output Voltage Range Output Current Range Minimum Load Line Regulation

Load Regulation

Overvoltage Protection

Overload Protection

Ripple & Noise

Hold-up Time

- 12.0 to 48.0Vdc
- 9.00A to 2.50A
- · 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
- Short Circuit Protection 

   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 Temperature Storage Humidity

- midity 20
- 20 to 80% RH, Non-Condensing
  - -20°C to +80°C

0°C to 40°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

Size

• ± 0.2mm

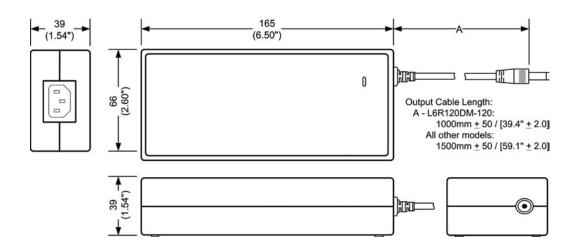
L 165 x W 66 x H 39 mm
 L 6.50" x W 2.60" x H 1.54"

Weight

Connectors

- Approx. 590g [1.3 lb.] (ref.)
- AC input: IEC 60320 C6 / C14 or C8 / C18 connector DC output: standard 5.5mm x 2.1mm corded dc output connector or per customer specification.
- Output Cord length
- L6R120DM-120: 1000 ±50 mm [39.4 ±2.0"]
   All other models: 1500 ±50 mm [59.1 ±2.0"]

# Mechanical Drawing



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