

L6R250DM Series

250W 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.
L6R250DM-120	Medical	6-Pin Rectangular	+12.0V	0	20.00	-	±5%	< ± 2%	± 1%	± 5%
L6R250DM-150	Medical	6-Pin Rectangular	+15.0V	0	16.66	-	±5%	< ± 2%	± 1%	± 5%
L6R250DM-240	Medical	6-Pin Rectangular	+24.0V	0	10.40	-	±5%	< ± 2%	± 1%	± 5%
L6R250DM-480	Medical	6-Pin Rectangular	+48.0V	0	5.21	-	±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.





L6R250DM 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 250W 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
- 3.3A @ 120Vac / 1.3A @ 230Vac
- 120A 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
- 20.8 to 5.2A
- No min. load required.
- ± 1% at rated load across input voltage range

Load Regulation

Ripple & Noise Hold-up Time

Overvoltage Protection
Overload 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

Size

Weiaht

Connectors

Size

L 204 x W 94 x H 43.5 mm

L 8.03" x W 3.70" x H 1.71

Approx. 1145g [2.52 lbs.] (ref.)

± 0.2mm

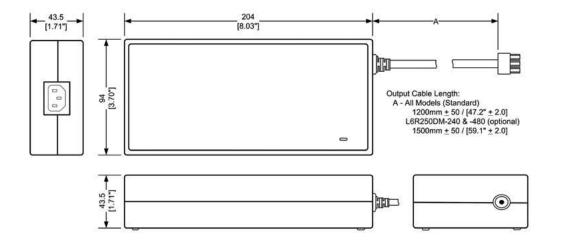
AC input: IEC 60320 C14 / C18 Connector
 DC output: Standard 6-pin (2x3) Molex
 5557 series or equivalent
 rectangular connector.

Output Cord length

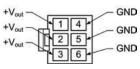
 1200 ±50 mm [47.2 ±2.0"]
 1500 ±50 mm [59.1 ±2.0"] optional for 24Vdc and 48Vdc outputs.

42440 or equiv.

Mechanical Drawing



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



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