

L6R90DM Series

90W 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. ¹	Application	Output Connector	Output Voltage	Output Current (A)			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R90DM-120	Medical	2.5mm I.D. x 5.5mm O.D. x 9.5mm Barrel Connector	+12.0V	0	7.00	_	±5%	< ± 2%	± 1%	± 5%
L6R90DM-150	Medical		+15.0V	0	6.00	_	±5%	< ± 2%	± 1%	± 5%
L6R90DM-180	Medical		+18.0V	0	5.00	_	±5%	< ± 2%	± 1%	± 5%
L6R90DM-190	Medical		+19.0V	0	4.74	_	±5%	< ± 2%	± 1%	± 5%
L6R90DM-240	Medical		+24.0V	0	3.75	_	±5%	< ± 2%	± 1%	± 5%
L6R90DM-480	Medical		+48.0V	0	1.88	_	±5%	< ± 2%	± 1%	± 5%

^{1.} An IEC 60320 C8 conneactor is the standard AC input configuration. For alternate input connector options, add "C6", "C14" or "C18" to designate the desired input 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.





L6R90DM 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 90W 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
- 1.2A @ 120Vac / 0.5A @ 230Vac
- 60A Max. / 230Vac
- < 100µA
- IEC 60320 C6 / C14 or C8 / C18, dependent upon output voltage and resulting input current

Output

Output Voltages Output Current Range Minimum Load Line Regulation

- 12.0, 15.0, 18.0, 19.0, 24.0 and 48.0Vdc
- 7.00 to 1.88A
- No min. load required.
- ± 1% at rated load across input voltage range
- Load Regulation ± 5% (typical)
- Ripple & Noise 2% Vp-p Max. @ full load

Hold-up Time

Overvoltage Protection Overload Protection

- **Short Circuit Protection**
- 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

ESD Immunity

EMI

- 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 • EN 61000-3-2 Class A

Harmonic Currents

 EN 55022/CISPR 22 Class B; EN 61000-3-3 • EN 61000-4-2, ±15kV/Air

± 8kV/Contact

Criterion A Criterion A

• EN 61000-4-3, 10V/m with Radiated Immunity

80% AM @ 1kH Criterion A EN 61000-4-4. ±2kV Criterion A

EFT Burst Surge Conducted Immunity

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

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

Warranty

Warranty Period

2 years

± 0.2mm

Dimensions and Notes

Dimensions in mm Tolerance

Size

L 151 x W 64 x H 35 mm L 5.94" x W 2.52" x H 1.38"

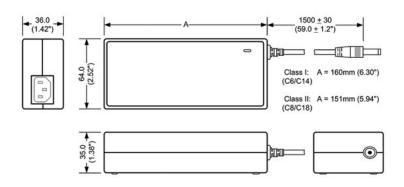
Weight Connectors

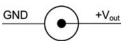
- Approx. 450g [1.0 lb.] (ref.)
- AC Input: IEC 60320 C8 is standard. Add "C6", "C14" or "C18" for optional input connections. DC output: Standard 2.5mm x 5.5mm x 9.5mm corded dc output connector or per customer specification.

Output Cord length

1500 ±50 mm [59.1 ±2.0"]

Mechanical Drawing





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