

L6R160DM Series

160W 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 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. |
| L6R160DM-120 | Medical | 4-Pin Circular DIN | +12.0V | 0 | 12.5 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160DM-190 | Medical | 4-Pin Circular DIN | +19.0V | 0 | 8.4 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160DM-240 | Medical | 4-Pin Circular DIN | +24.0V | 0 | 6.6 | - | ±5% | < ± 2% | ± 1% | ± 5% |
| L6R160DM-480 | Medical | 4-Pin Circular DIN | +48.0V | 0 | 3.3 | - | ±5% | < ± 2% | ± 1% | ± 5% |

^{1.} Add "C6" or "C14" 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.





L6R160DM 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 160W 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

• 1.8A @ 120Vac / 0.9A @ 230Vac

60A Max. / 230Vac

• < 100µA

• IEC 60320 C6 / C14

Output

Output Voltage Range Output Current Range Minimum Load

Minimum Load Line Regulation

Load Regulation
Ripple & Noise
Hold-up Time
Overveltage Protect

Overvoltage Protection Overload Protection Short Circuit Protection 12.0 to 48.0Vdc

• 12.5A to 3.3A

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

Altitude for Operation

0°C to 40°C

20 to 80% RH, Non-Condensing

-20°C to +80°C

• 10 to 90%, Non-Condensing

• 5000M

EMC & Safety

Safety Approvals

• UI/cUL 62368-1, 60950-1

• CE: IEC 62368-1, 60950-1

EMC Approvals

• FCC

Harmonic Currents • EN61000-3-2 Class A

EMI ESD Immunity

Radiated Immunity

• EN 55022/CISPR 22 Class B, EN61000-3-3

 EN 61000-4-2; ±15KV as air discharge ±8KV as contact discharge

-4-5; L-N: ±1KV L-PE: ±2KV

• EN 61000-4-3; 10V/m 80% AM @ 1kHz

N-PE: ±2KV
Conducted Immunity • EN 61000-4-6; 0.15~80 MHz,

3Vrms, 80% AM, 1KHz

Dips & Interruptions • EN 61000-4-11; Dips:

• EN 61000-4-8; 30A/m

Reduction 100% 10ms
Reduction 100% 20ms
Reduction 30% 500ms
Interruptions:
Reduction 100% 5000ms

Criterion A Criterion B Criterion B

Criterion B

Criterion A

Warranty

Magnetic Fields

Warranty Period

2 years

± 0.2mm

Dimensions and Notes

Dimensions in mm

Tolerance

Size

• L 183 x W 81 x H 42 mm

Weight

L 7.20" x W 3.19" x H 1.65"
• Approx. 820g [1.8 lb.] (ref.)

Connectors

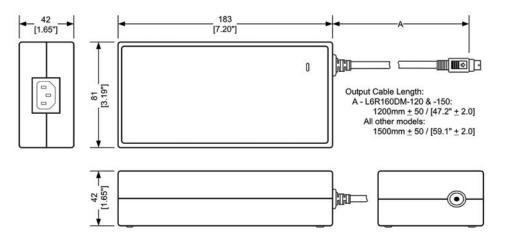
AC input: IEC 60320 C6 / C14

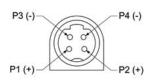
DC output: 4-Pin DIN corded DC output connector or per customer specification.

Output Cord length • L6R

• L6R160DM-120: 1200 ±50 mm [47.2 ±2.0"] All other models: 1500 ±50 mm [59.1 ±2.0"]

Mechanical Drawing





4-Pin DIN Output Connector Pin Assignment

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