



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 Accuracy	Ripple Noise	Line Reg.	Load Reg.
				Min	Rated	Peak				
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	• 90 Vac ~ 264 Vac, 100~240Vac Nominal
Input Frequency	• 47 Hz to 63 Hz
No Load Input Power	• < 0.15W
Input Current	• 1.8A @ 120Vac / 0.9A @ 230Vac
Inrush Current	• 60A Max. / 230Vac
Leakage Current	• < 100µA
Input Connection	• IEC 60320 C6 / C14

Output

Output Voltage Range	• 12.0 to 48.0Vdc
Output Current Range	• 12.5A to 3.3A
Minimum Load	• No min. load required.
Line Regulation	• $\pm 1\%$ at rated load across input voltage range
Load Regulation	• $\pm 5\%$ (typical)
Ripple & Noise	• 2% Vp-p Max. @ full load
Hold-up Time	• 10mS @ Full Load
Overvoltage Protection	• Auto recovery
Overload Protection	• Auto recovery
Short Circuit Protection	• Auto recovery

General

Dielectric Withstand	• 4,000Vac Primary to Secondary
Efficiency	• DoE Level VI, ErP Stage 2 compliant
MTBF	• 300,000 hrs. @ 25°C per Telcordia SR-332

Environmental

Operating Temperature	• 0°C to 40°C
Operating Humidity	• 20 to 80% RH, Non-Condensing
Storage Temperature	• -20°C to +80°C
Storage Humidity	• 10 to 90%, Non-Condensing
Altitude for Operation	• 5000M

EMC & Safety

Safety Approvals	• UL/cUL 62368-1, 60950-1	
	• CE: IEC 62368-1, 60950-1	
EMC Approvals	• FCC	
Harmonic Currents	• EN61000-3-2 Class A	
EMI	• EN 55022/CISPR 22 Class B, EN61000-3-3	
ESD Immunity	• EN 61000-4-2; $\pm 15\text{KV}$ as air discharge $\pm 8\text{KV}$ as contact discharge	Criterion B Criterion A
Radiated Immunity	• EN 61000-4-3; 10V/m 80% AM @ 1kHz	Criterion A
EFT Burst	• EN 61000-4-4; $\pm 2\text{KV}$	Criterion A
Surge	• EN 61000-4-5; L-N: $\pm 1\text{KV}$ L-PE: $\pm 2\text{KV}$ N-PE: $\pm 2\text{KV}$	Criterion A
Conducted Immunity	• EN 61000-4-6; 0.15~80 MHz, 3Vrms, 80% AM, 1KHz	Criterion A
Magnetic Fields	• EN 61000-4-8; 30A/m	Criterion A
Dips & Interruptions	• EN 61000-4-11; Dips: Reduction 100% 10ms Reduction 100% 20ms Reduction 30% 500ms Interruptions: Reduction 100% 5000ms	Criterion A Criterion A Criterion B Criterion B

Warranty

Warranty Period	• 2 years
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Dimensions and Notes

Dimensions in mm	
Tolerance	• $\pm 0.2\text{mm}$
Size	• L 183 x W 81 x H 42 mm L 7.20" x W 3.19" x H 1.65"
Weight	• 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	• L6R160DM-120: 1200 ± 50 mm [47.2 ± 2.0 "] All other models: 1500 ± 50 mm [59.1 ± 2.0 "]

Mechanical Drawing

