

L6R12M / ICM12M Series

12W Medical Power Supply / Adapter

- 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 Connector or USB Output Connection
- Single (L6R12M) or Interchangeable International (ICM12M) AC Plug Adapters
- Light Weight and Compact
- 2-Year Warranty



ICM12M

L6R12M

Model No.	Application	Output Connector	Output Voltage	Output Current (A)			Voltage	Ripple	Line	Load
				Min	Rated	Peak	Accuracy	Noise	Reg.	Reg.
L6R/ICM12M-033	Medical	2.1mm I.D. x 5.5mm O.D. x 9.5mm Barrel	+3.3V	0	2.00	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-050	Medical		+5.0V	0	2.00	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-051	Medical		+5.0V	0	3.00	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-050U	Medical	USB Connector	+5.0V	0	2.00	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-059	Medical	2.1mm I.D. x 5.5mm O.D. x 9.5mm Barrel	+5.9V	0	2.00	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-062	Medical		+6.2V	0	2.00	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-090	Medical		+9.0V	0	1.20	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-120	Medical		+12.0V	0	1.00	_	±5%	< ± 2%	± 1%	± 5%
L6R/ICM12M-150	Medical		+15.0	0	0.80	_	+5%	<+2%	+1%	+5%
L6R/ICM12M-180	Medical		+18.0	0	0.67	_	+5%	<+2%	+1%	+5%
L6R/ICM12M-240	Medical		+24.0	0	0.50	_	+5%	<+2%	+1%	+5%

- 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.





L6R12M / ICM12M Series

Innovative, inexpensive and medical reliability. This economical DOE Level VI compliant medical power supply/charger is available in a variety of voltage levels, 5.0 to 24.0Vdc (per the model number table) to match your needs. Rated up to 12W 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
- 0.32A 0.19A
- 40A Max. / 230Vac
- < 100uA
- L6R12M-xxx: U.S. AC Connector ICM12M-xxx: Interchangeable International AC Connectors

Output

Output Voltage Range Output Current Range Minimum Load Line Regulation

Load Regulation

Ripple & Noise

- 5.0 to 24.0Vdc
- 2.00 to 0.50A
- No min. load required.
- ± 1% at rated load across input voltage range
- ± 5% (typical)
- 2% Vp-p Max. @ full load
- 10mS @ Full Load Hold-up Time
- Overvoltage Protection Auto recovery
- Overload Protection 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 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

 ANSI/AAMI ES60601-1:2012, edition 3.1 IEC/EN ES60601-1:2012, edition 3.1

EMC Approvals

· Radiated & Conducted Emissions: EN55011 CISPR 11, Class B

Harmonic Current: EN61000-3-2, 3 EMC: IEC60601-1-2:2014, edition 4.0

FMI

• EN 55022/CISPR 22 Class B; EN 61000-3-3

ESD Immunity EN 61000-4-2. ±15kV/Air Criterion A Criterion A ± 8kV/Contact

Radiated Immunity

• EN 61000-4-3, 10V/m with 80% AM @ 1kH

Criterion A Criterion A

EFT Burst Surge

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

EN 61000-4-4, ±2kV

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

10ms

Warranty

Warranty Period

2 years

Dimensions and Notes

Dimensions in mm Tolerance Size

+ 0.2 mm

L 80.2 x W 46 x H 57.5 mm L 3.16" x W 1.81" x H 2.26"

Approx. 140g [0.31 lb.] (ref.)

Weight Connectors

AC Input:

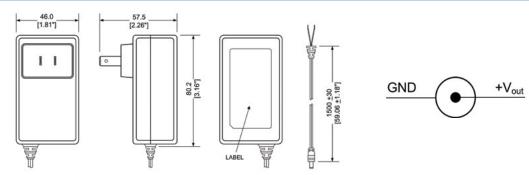
L6R12M-xxx: U.S. AC Connector ICM12M-xxx: Interchangeable International AC Connectors

DC output:

L6R/ICM12M-xxxU: USB Connector All other models: standard 2.1mm I.D. x 5.5mm O.D. x 9.5mm barrel connector or per customer specification.

1500 ±50 mm [59.1 ±2.0"]

Mechanical Drawing



Output Cord length

2018-12