# **MENB1090**





#### Medical Switch-Mode Power Supply

- ·100-240VAC Universal Input
- •Meets EISA2007, CEC Efficiency Level V, EU (EC) No 278/2009 Phase II
- ·Desktop Style
- •12V to 24V Single Output Models, up to 90W
- ·Modified and Custom Designs Available
- ·Regulated Output with Low Ripple
- ·Impact-Resistant Polycarbonate Enclosure
- •No Load Power Consumption <0.5W
- ·Meets UL/EN/IEC60601-1



3 Year Warranty





Specification	S All Specificat	All Specifications are typical at nominal input, full load at 25℃ unless otherwise stated.			
AC Input	100-240VAC, +/-10%, 47-63 Hz, 1∅	MTBF	>100,000 hours (calculated)		
Input Current	100Vac: 2.0A	Hold-up Time	18 ms min. @ 115Vac, 60 ms min. @ 230 Vac		
Inrush Current	60A peak @ 264Vac	Overload Protection	Hiccup Mode		
Input Fuse	3.15A, 250V Internal Primary Current Fuse is provided	<b>Short Circuit Protection</b>	Hiccup Mode		
Efficiency	Meets International Efficiency Level V	Topology	Switching – Fixed Frequency Flyback		
Output Voltage	See chart	Safety and EMC Approvals	EN/IEC/CSA/UL60601-1 EMC: See chart		
Output Power	See chart	Dielectric Withstand	Input-Output: 5,656Vdc Input-GND: 1,500 Vac, Output-GND: 500Vdc		
Ripple and Nois	e 1% pk-pk max., 20MHz BW	Operating Temperature	0° to 40°C, no derating		
Line/Load Regu	<b>ation</b> Line: +/- 1%, Load: +/-5%	Storage Temperature	-30 to +85°C		
Transient Respo	nse 500µs max., 50% load step, typical	Relative Humidity	5% to 95%, non-condensing		
Minimum Load	Not required	Altitude	0 to 10,000 ft		
Case Material	Black 94V0 Polycarbonate	Output Connections Connector: Ault #3, 2.	Cable: 18AWG, 1,500mm, 4 conductor 5mm barrel or #51, 6-pin Molex. See drawings.		
Case Dimension	s 129 x 77 x 40mm See outline drawing	Weight	600g		

EMI/EMC Compliance					
Conducted Emissions	FCC Part 15, Class B, EN55011 Class B, EN55024				
Radiated Emissions	FCC Part 15, Class B, EN55011 Class B, EN55024				
Voltage Fluctuations	EN61000-3-3, Line Flicker				
Static Discharge Immunity	EN61000-4-2, 6kV Contact Discharge, 8kV air discharge				
Radiated RF Immunity	EN61000-4-3, 3V/m.				
EFT/Burst Immunity	EN61000-4-4, 2kV/5kHz				
Line Surge Immunity	EN61000-4-5, 1kV differential, 2kV common-mode				
Conducted RF Immunity	EN61000-4-6, 3Vrms				
Power Frequency Magnetic Field Immunity	EN61000-4-8, 3A/m				
Voltage Dip Immunity	EN61000-4-11 crit. A, 100Vac 60Hz, 40%/5 cycles with 70% full load.				
Line Frequency Harmonics	EN61000-3-2, Class A				

# **MENB1090**



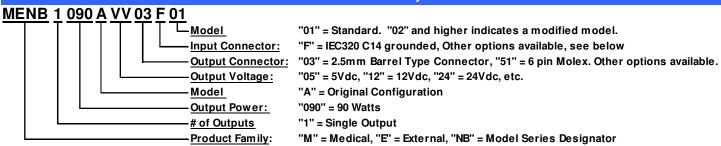
Universal Input 90 Watt Series

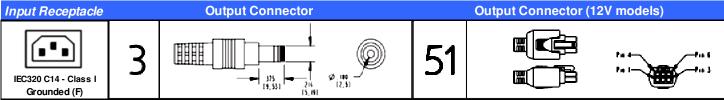
#### Medical Switch-Mode Power Supply

#### 3 Year Warranty

Model Number	Volts (V)	Output Current (max)	Max Watts	Ripple (Vp-p max)
MENB1090A1251F01	12 V	7.0 A	84.0 W	120mV
MENB1090A1503F01	15 V	6.0 A	90.0 W	150mV
MENB1090A1803F01	18 V	5.0 A	90.0 W	180mV
MENB1090A2403F01	24 V	3.75 A	90.0 W	240mV

#### **Model Number Key**



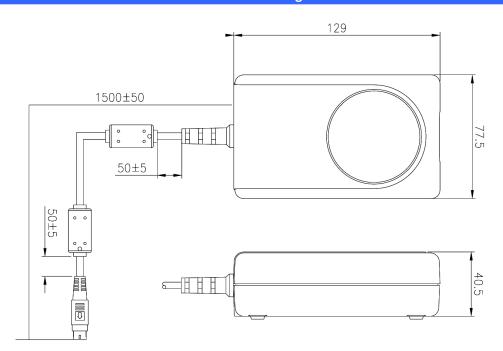


"#3" Connector is 2.5mm barrel type, center (+)

"#51" Connector is Molex 39-01-2060 or equivalent.

<u>"51" Connector Pinout:</u> Pins 1, 4: (+), Pins 3, 6: (-). Mate = Molex 39-01-2061 or equiv.

#### **Outline Drawing**



DIN connector shown. Standard connector is "#3" or "#51" connector. See above.

Dimensions are in mm

Data Sheet © 2011 SL Power Electronics Corp. The information and specifications contained herein are believed to be correct at the time of publication. Rev. 4-25-2011 However, SL Power accepts no responsibility for consequences arising from reproduction errors or inaccuracies. Specifications are subject to change without notice.

### **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### SL Power:

MENB1090A1251F01 MENB1090A1503F01 MENB1090A1803F01 MENB1090A2403F01