# **MENB1080**

Universal Input 80 Watt Series

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 80W
- •Modified and Custom Designs Available
- •Regulated Output with Low Ripple
- Impact-Resistant Polycarbonate Enclosure
- •No Load Power Consumption <0.5W
- •Certified to UL/EN/IEC60601-1

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	All Specifications are typical at nominal input, full load at 25	5

Specifications	All Specification	ons are typical at nominal inpu	t, full load at 25℃ unless otherwise stated.
AC Input	100-240Vac, +/-10%, 47-63 Hz, 1Ø	MTBF	>100,000 hours calculated
Input Current	100Vac: 1.35A	Hold-up Time	18 ms min. @ 115Vac, 60 ms min. @ 230 Vac
Inrush Current	60A peak @ 264Vac, cold start	<b>Overload Protection</b>	Hiccup Mode
Input Fuse	3.15A, 250V Internal Primary Current Fuse provided	Short Circuit Protection	Hiccup Mode
Efficiency	Meets International Efficiency Level V	Topology	Switching – Fixed Frequency Flyback
Output Voltage	See chart	Safety and EMC Approval	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 Noise	1% pk-pk max., 20MHz BW	Operating Temperature	0° to 40°C, no derating
Line/Load Regulat	ion Line: +/- 1 to 2%, Load: +/-5% at end of cable	Storage Temperature	-30 to +85°C
Transient Respons	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,	Cable: 20AWG, 1,800mm, 4 conductor 2.5mm barrel or #51, 6-pin Molex (12V model)
Case Dimensions	131 x 72 x 43mm See outline drawing	Weight	500g

#### **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				



**3** Year Warranty

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## Universal Input 80 Watt Series

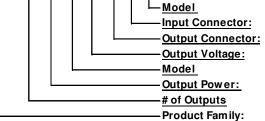
# Medical Switch-Mode Power Supply

#### **3 Year Warranty**

Model Number	Volts (V)	Output Current (max)	Max Watts	Ripple (Vp-p max)
MENB1080A1251F01	12 V	6.5 A	78.0 W	120mV
MENB1080A1503F01	15 V	5.2 A	78.0 W	150mV
MENB1080A1803F01	18 V	4.33 A	78.0 W	180mV
MENB1080A2403F01	24 V	3.25 A	78.0 W	240mV

#### Model Number Key

## MENB 1 080 A VV 03 F 01



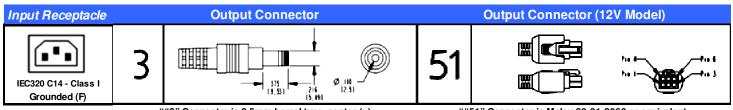
"01" = Standard. "02" and higher indicates a modified model.

 $"\ensuremath{\mathsf{F}}"$  = IEC320 C14 grounded, Other options available, see below

"03" = 2.5mm Barrel Type Connector, "51" = 6 pin Molex. Other options available.

- "05" = 5Vdc, "12" = 12Vdc, "24" = 24Vdc, etc.
- "A" = Original Configuration
- "080" = 80 Watts
- "1" = Single Output

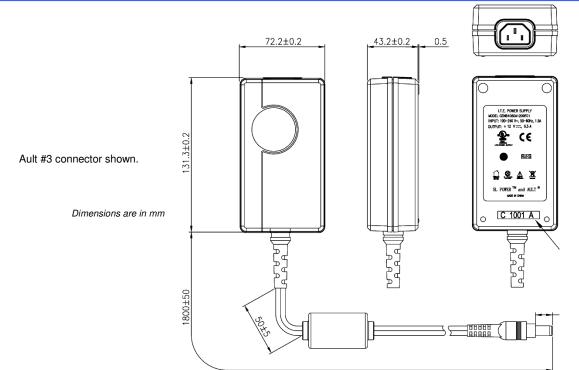
"M" = Medical, "E' = External, "NB" = Model Series Designator



"#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**



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