MENB1080

Universal Input 80 Watt Series

Medical Switch-Mode Power Supply

3 Year Warranty

- *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*

Specifications

All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.

AC Input	100-240Vac, +/-10%, 47-63 Hz, 1∅	**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	**Overload Protection**	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 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 Noise	1% pk-pk max., 20MHz BW	**Operating Temperature**	0° to 40°C, no derating
Line/Load Regulation	Line: +/- 1 to 2%, Load: +/-5% at end of cable	**Storage Temperature**	-30 to +85°C
Transient Response	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**	Cable: 20AWG, 1,800mm, 4 conductor Connector: Ault #3, 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

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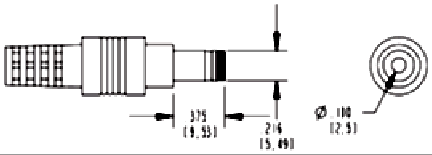
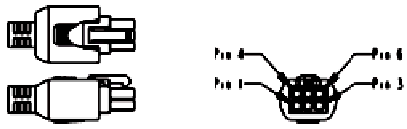
Model Number	Volts (V)	Output Current (max)	Max Watts	Ripple (Vp-p max)
MENB1080A1251F01	12 V	6.5 A	78.0 W	120mV
MENB1080A1503F01	15 V	5.2 A	78.0 W	150mV
MENB1080A1803F01	18 V	4.33 A	78.0 W	180mV
MENB1080A2403F01	24 V	3.25 A	78.0 W	240mV

Model Number Key

MENB 1 080 A VV 03 F 01

Model	"01" = Standard. "02" and higher indicates a modified model.
Input Connector:	"F" = IEC320 C14 grounded, Other options available, see below
Output Connector:	"03" = 2.5mm Barrel Type Connector, "51" = 6 pin Molex. Other options available.
Output Voltage:	"05" = 5Vdc, "12" = 12Vdc, "24" = 24Vdc, etc.
Model	"A" = Original Configuration
Output Power:	"080" = 80 Watts
# of Outputs	"1" = Single Output
Product Family:	"M" = Medical, "E" = External, "NB" = Model Series Designator

Input Receptacle	Output Connector	Output Connector (12V Model)
 IEC320 C14 - Class I Grounded (F)	3 	51 

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

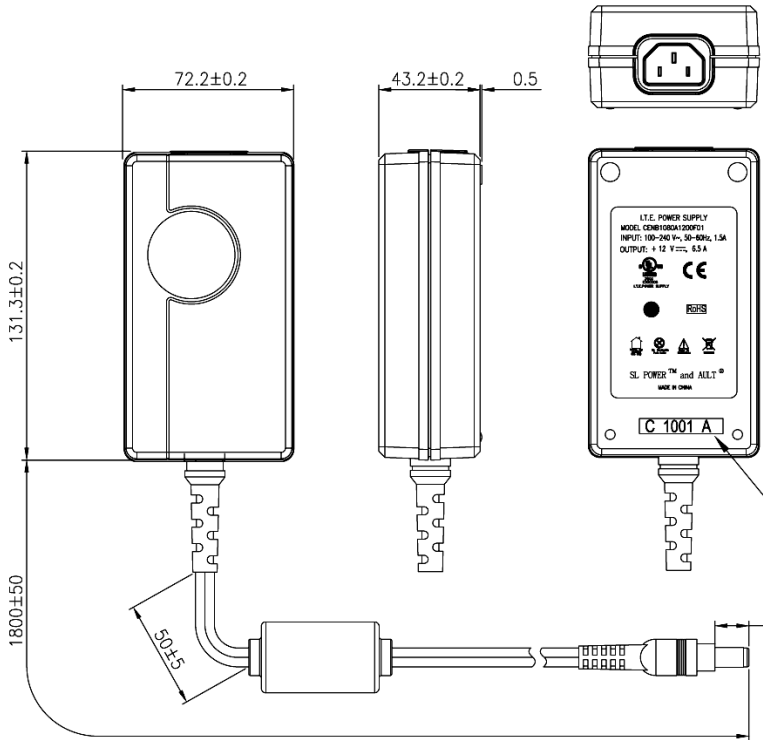
"#51" Connector is Molex 39-01-2060 or equivalent.

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

Outline Drawing

Ault #3 connector shown.

Dimensions are in mm



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