

# MENB1121

Universal Input 120 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 120W
- 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<sup>rd</sup> Edition



### Specifications

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

AC Input	100-240Vac, +/-10%, 47-63 Hz, 1Ø	MTBF	100,000 hours calculated
Input Current	100 Vac: 2.2 A	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, 3 <sup>rd</sup> Edition EMC: See chart
Output Power	See chart	Dielectric Withstand	Input-Output: 2xMOOP Input-GND: 1 MOOP, Output-GND: 500Vdc
Ripple and Noise	1% pk-pk max., 20MHz BW	Operating Temperature	0° to 40°C, no derating
Line/Load Regulation	Excluding Cord: Line: +/- 1%, Load: +/-5%	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: 18AWG, 1,200mm, 4 conductor Connector: #51, 6-pin Molex
Case Dimensions	212.4mm x 67.4mm x 45mm, see outline drawing	Weight	700g

### EM/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)
MENB1121A1251F01	12 V	10.0 A	120 W	120mV
MENB1121A1551F01	15 V	8.0 A	120 W	150mV
MENB1121A1851F01	18 V	6.6 A	120 W	180mV
MENB1121A2451F01	24 V	5.0 A	120 W	240mV

## Model Number Key

**MENB 1 120 A 12 51 F 01**

## - Model

- **Input Connector:**

**- Output Connector:**

**- Output Voltage:**

## - Model

**- Output Power:**

- # of Outputs

**- Product Family:**

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

**"F"** = IEC320 C14 grounded. Other options available, see below.

**"51" = Molex 39-01-2060. Other options available.**

**"12" = 12Vdc, "15" = 15Vdc, etc.**

**"A" = Original Configuration**

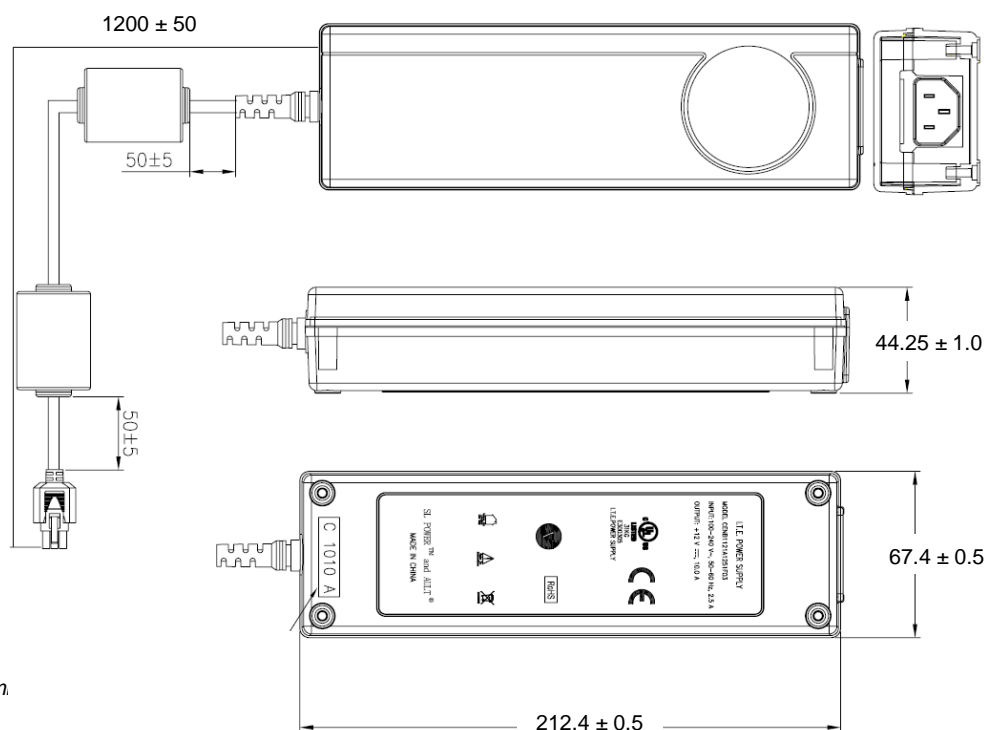
**"150" = 150 Watts**

**"1" = Single Output**

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

Input Connector Options	DC Output Connector		
	Output Connector Options	Pinout	Mating Connector
<u>Class I (grounded) Inlet:</u> “F” = IEC60320 C14 <u>Class II (ungrounded) Inlets:</u> “N” = IEC60320 C8 “Q” = IEC60320 C18	“51” = 6 pin, Molex 39-01-2060 or equiv.	Pins 1,4: +Vout Pins 3,6: -Vout Pins 2,4: NC	Molex 39-01-3063 or equiv.

## Outline Drawing



*Dimensions are in m*

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