

MENT1220

Universal 220 Watt Series

Medical Switch-Mode Power Supply



3Year Warranty

- Universal Input 100Vac – 240Vac
- Single Output to 220W
- Desktop Style/Non-vented case - No internal fan!
- Ribbed Case Surface to improve cooling
- Energy Star 2.0, Level V
- Certified to EN60601-1-2
- IPX1 Rated Enclosure
- 4 Models Available
- Modified and Custom Designs



International Safety Standard Approvals



Specifications

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

AC Input 100-240VAC, +/-10%, 47-63 Hz single phase.	MTBF >100,000 hours (calculated)
Input Current 115VAC: 3.0A, 230VAC: 1.5A.	Hold-up Time 16.7 ms min. @ 115VAC
Inrush Current 75A max. @ 264VAC, Cold Start	Overvoltage Protection 130% of nominal output voltage.
Input Fuses Internal 6.3A Primary Current Fuses are provided.	Overload Protection 110-150% of full rated load, auto-recovery.
Earth Leakage Current <260µA @264VAC	Short Circuit Protection Hiccup Mode, auto-recovery.
Efficiency 92% typical.	Switching Frequency 50-120kHz, variable
No Load Power <0.5W.	Safety Standards CSA/EN/IEC/UL60601-1
Ripple and Noise 1% pk-pk max., 20MHz BW, differential mode.	Isolation Input-Output: 4000VAC, Input-GND: 1500VAC, Output-GND: 700VDC.
Output Voltage See chart.	Operating Temperature 0° to 40°C, derate to 60% of full rated load at 70°C.
Line & Load Voltage Regulation Line: +/-0.5% max., Load: +/-2% max.	Storage Temperature -20 to +85°C.
Minimum Load Not required.	Relative Humidity 5% to 95%, non-condensing
Transient Response 5ms max. for 50% load step. Max deviation is 5%.	Altitude 0 to 10,000 ft.
Turn-on Time 3 sec. maximum @ 115VAC	Case Material: Black 94V-0 rated Polycarbonate
Output Connections: See chart and outline drawing.	Case Dimensions: Desktop Style: 8.4" x 4.25" x 1.85".

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OUTPUT PARAMETERS

Model Number	Output Volts	Output Current (max)	Max Watts	Ripple (Vp-p max)
MENT1220A2451F01	24V	9.17A	220W	240mV
MENT1220A2851F01	28V	7.85A	220W	280mV
MENT1220A3251F01	32V	6.90A	220W	320mV
MENT1220A4851F01	48V	4.58A	220W	480mV

Model Number Key

MENT 1 220 A VV 51 F 01

- Model Configuration:** "01" = Standard. "02" and higher indicates a modified model.
- Input Connector:** "F" = IEC320 C14 grounded
- Output Connector:** "51" = Molex 39-01-2060 (or equiv.) connector, see below for pinout and mating information.
- Output Voltage:** "24" = 24Vdc, "28" = 28Vdc, "32" = 32Vdc, "48" = 48Vdc
- Model Configuration:**
- Output Power:** "220" = 220 Watts
- # of Outputs**
- Product Family:** "M" = Medical, "E" = External, "NT" = New Technology

Outline Drawing

