

# 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.

Output Specifications		
Line and Load	Line	+/-0.5% maximum
Voltage Regulation	Load	+/-2% maximum
Ripple		1% Vp-p max. (20Mhz bandwidth)
Transient Response		5mS for 50% Load Change, 0.2A/μS current slew rate. Max/ voltage deviation is 5%.
Hold-up Time	@ 115VAC	16.7mS, min.
Protection	Overcurrent	110-150% of full load, auto-recovery
	Short Circuit	Hiccup Mode, Auto-recovery
	Overvoltage	130% of nominal output
	Over temperature	Provided, Auto-recovery

Input Specifications		
Input Voltage Range	Universal Input	100-240VAC, +/-10%
Line Frequency		47-63Hz
No Load Power		<0.5W
Input Current	115VAC	3.0A max.
	230VAC	1.5A max.
Protection	Input fuse	Internal 6.3A Primary Current Fuse
	Inrush Current	75A max. @ 264VAC, Cold Start

Environmental Specifications		
Temperature Range	Operating	0°-40°C, derate to 60% load at 70°C
	Non-operating	-20°C to +85°C
Relative Humidity	Non-condensing	5% to 95%
Altitude	Operating	0 to 10,000 feet
	Non-operating	-500 to 40,000 feet

General Specifications		
Switching Frequency		50 - 120Khz, variable
Efficiency		92% typical
Turn-On Time		3 sec. maximum at 115VAC
Leakage Current		<260μA at 264VAC
Approvals and Safety Standards		UL60601-1
		TUV/EN60601-1
		IEC60601-1
MTBF	25°C @ full load	100,000 Calculated Hours
Dielectric Withstand	Input-Output	4,000VAC
	Input-Ground	1500VAC
	Output-Ground	700VDC
Case and Dimensions	Desktop Style:	8.4"L x 4.25"W x 1.85"H
Case Material		Black 94V0 Polycarbonate
Output Connections		See chart
EMC Specifications	FCC Part 15	Subpart B
	EN55011	Class B
	EN61000-3-2	Class A
	EN61000-3-3	Line Flicker
	EN61000-4-2 Air	8kV
	EN61000-4-2 Contact	6kV
	EN61000-4-3	3V/m
	EN61000-4-4	2kV/5Khz
	EN61000-4-5	1kV diff., 2kV common
	EN61000-4-6	3Vrms
	EN61000-4-8	3A/M, Criteria A
EN61000-4-11	Criteria A, 100VAC, 60Hz; 40%/5 cycles with 70% load.	

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## OUTPUT PARAMETERS

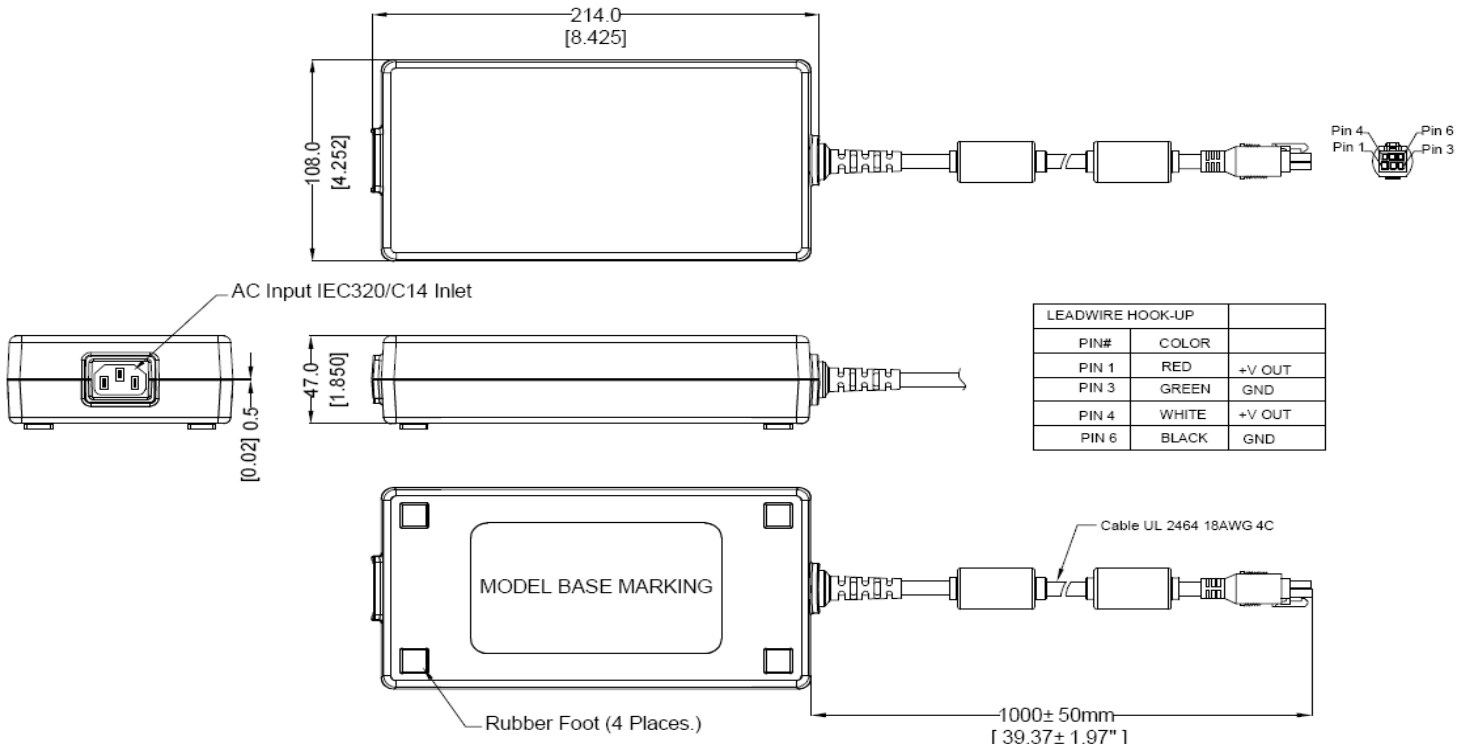
Model Number	Output Volts	Output Current (max)	Max Watts	Ripple (Vp-p max)
MENT1220A2451F01	24V	9.17A	220W	240mV
MENT1220A2851F01	28V	7.85A	220W	280mV
MENT1220A3251F01	32V	6.90A	220W	320mV
MENT1220A4851F01	48V	4.58A	220W	480mV

## 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



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