MENT1220



Universal 220 Watt Series

Universal Input 100Vac – 240Vac

Single Output to 220W

Medical Switch-Mode Power Supply

- **3Year Warranty**
- 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 CODUS (C ROHS (Formal Certifications Pending) Specifications All Specifications are typical at nominal input, full load at 25°C unless otherwise stated. **Output Specifications General Specifications** +/-0.5% maximum 50 - 120Khz, variable Line and Load Line **Switching Frequency** Voltage Regulation +/-2% maximum Load 1% Vp-p max. (20Mhz bandwidth) Efficiency Ripple 92% typical **Transient Response** 5mS for 50% Load Change, 0.2A/µS **Turn-On Time** 3 sec. maximum at 115VAC current slew rate. Max/ voltage deviation is 5%. Hold-up Time @ 115VAC Leakage Current <260µA at 264VAC 16.7mS. min. Protection Approvals and Safety UL60601-1 110-150% of full load, auto-recovery Overcurrent Short Circuit Hiccup Mode, Auto-recovery Standards TUV/EN60601-1 IEC60601-1 Overvoltage 130% of nominal output Over temperature Provided, Auto-recovery Input Specifications MTBF 25 ℃ @ full load 100,000 Calculated Hours Input Voltage Range Universal Input 100-240VAC, -/-10% **Dialectric Withstand** Input-Output 4,000VAC Input-Ground 1500VAC Output-Ground 700VDC Line Frequency 47-63Hz **Case and Dimensions** Desktop Style: 8.4"L x 4.25"W x 1.85"H No Load Power <0.5W **Case Material** Black 94V0 Polycarbonate Input Current 115VAC 3.0A max. **Output Connections** See chart 230VAC 1.5A max. **EMC Specifications** FCC Part 15 Protection Input fuse Internal 6.3A Primary Current Fuse Subpart B Inrush Current 75A max. @ 264VAC, Cold Start EN55011 Class B EN61000-3-2 Class A **Environmental Specifications** EN61000-3-3 Line Flicker 0°-40℃, derate to 60% load at 70℃ EN61000-4-2 Air 8kV **Temperature Range** Operating EN61000-4-2 Contact 6kV Non-operating -20 °C to +85 °C EN61000-4-3 3V/m EN61000-4-4 2kV/5Khz **Relative Humidity** Non-condensing 5% to 95% EN61000-4-5 1kV diff., 2kV common EN61000-4-6 3Vrms Altitude 0 to 10,000 feet Operating EN61000-4-8 3A/M, Criteria A -500 to 40.000 feet Non-operating EN61000-4-11 Criteria A, 100VAC, 60Hz; 40%/5

cycles with 70% load.

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		OUTPUT PA	RAMETERS		
Model Number	Output Volts	Output Curre		Max Watts	Ripple (Vp-p max)
MENT1220A2451F01	24V	9.174	1	220W	240mV
MENT1220A2851F01	28V	7.85A	N I	220W	280mV
MENT1220A3251F01	32V	6.90A		220W	320mV
MENT1220A4851F01	48V	4.58A		220W	480mV
		Model Nu	mber Key		
<u>MENT 1 220 A</u>		el Configuration:	"01" = Standard.	"02" and higher indica	ates a modified model.
	Inpu	t Connector:	"F" = IEC320 C14 grounded		
	Outr	- <u>Output Connector:</u> "51" = Molex 39-01-2060 (or equiv.) connector, see below for pinou and mating information.			
	Outr	out Voltage:	"24" = 24Vdc, "28	" = 28Vdc, "32" = 32Vd	ic, "48" = 48Vdc
	Mod	el Configuration:			
	<u>Outr</u>	out Power:	"220" = 220 Watts	;	
	<u># of</u>	<u>Outputs</u>			
	<u>Proc</u>	luct Family:		= External, "NT" = N	ew Technology
		Outline	Drawing		
	[4.252]	214.0 [8.425]			Pin 4 Pin 1 Pin 1
_AC Inp	out IEC320/C14 Inlet			LEADWIRE H	DOK-UP
			n.	PIN#	COLOR
				PIN 1 PIN 3 PIN 4 PIN 6	RED +V OUT GREEN GND WHITE +V OUT BLACK GND
		L BASE MARKING		PIN 3 PIN 4 PIN 6	GREEN GND WHITE +V OUT

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