200W Power Supply



INPUT SPECIFICATIONS			
Input Voltage	85-264 VAC (Universal)		
Input Frequency	47-63Hz		
Input Current	2.5A _{RMS} at 115VAC / 1.2A _{RMS} at 230VAC		
Inrush Current	<80A @ 240 VAC, Cold Start		
Power Factor	>0.95		
Earth Leakage Current	<250µA @ 264VAC (Class I)		
Patient Leakage Current	<100µA @ 264VAC		
Input Protection	Internal T5.0A / 250V Fuse (Line & Neutral)		

OUTPUT SPECIFICATIONS			
Output Voltage	See Table		
Line Regulation	±0.5%		
Load Regulation	±2%		
Minimum Load	None		
Transient Response	\pm 5%, 50% step-load, slew rate 1A/ μ S		
Ripple / Noise	1% pk-pk typical		
Turn-On Delay	3 seconds max @ 115VAC		
Hold-Up Time	>20ms at 115VAC Full Load		
Over-Voltage	110-140% Latching		
Over-Load	120-150% (Hiccup Mode, Auto-Recovery)		
Short Circuit	Hiccup Mode		
Over-Temperature	Auto-Recovery		

GENERAL SPECI	FICATIONS
Efficiency	91%min at 115VAC/230VAC, full load
Isolation	Input to Output: 4000 VAC, 2xMOPP Input to Ground (Class I): 1500 VAC, 1xMOPP Output to Ground (Class I):1500 VAC, 1xMOPP
MTBF	300K Hours, Mil-217F at 25 °C, full load
Weight	430g

FEATURES

- 60950-1 & Medical 60601-1 Safety Approvals
- Small 5 x 3 x 1.5" Package
- Class I, Class II Construction Compatible
- High Efficiency 91.5% typical at full load
- EN55011 / EN55022 / FCC Part 15J Class B Emissions
- Medical type BF Rating
- 3 Year Warranty

ENVIRONMENTAL SPECIFICATIONS			
Operating Temperature	$0^{\circ}\text{C} \sim +40^{\circ}\text{C}$		
Derating	$1.67\%^{\circ}$ C, $> 40^{\circ}$ C, up to 70° C max		
Storage Temperature	$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$		
Operating Humidity	5~95% (non-condensing)		
Operating Altitude	3000M (max)		
Shock	294m/s², 10ms on 3 axes		
Vibration	10-500Hz, 19.6m/s ² (2G), 20mins on 3 axes		

EMC & SAFETY			
Emissions	EN55022 / EN55011 FCC J15, Class B, Conducted EN55022 / EN55011 FCC J15, Class B, Radiated		
Harmonic Current	EN61000-3-2 Class A		
Voltage Flicker	EN61000-3-3		
ESD	EN61000-4-2, 6kV contact, 8kV Air Discharge		
EFT/Burst	EN61000-4-4, Level 3, Criterion A		
Surge	EN61000-4-5, Installation Class3, Criterion A		
Conducted Immunity	EN61000-4-6 ,3V _{RMS} , Criterion A		
Radiated Immunity	EN61000-4-3, 3V/m, Criterion A		
Magnetic Field	EN61000-4-8, 3A/m, Criterion A		
Dips & Interruptions	EN61000-4-11, 0% 10ms, 40% 100ms, 70% 500ms, 0% 5000ms; Criterion A/B/C		
Safety Approvals	CE Mark IEC 60950-1, 3rd Ed & IEC 60601-1, 3rd Ed ANSI / UL 60950-1 & ANSI / AAMI ES60601-1 CSA C22.2 No 60950-1 & No 60601-1 EN60950-1, 3rd Ed & EN60601-1, 3rd Ed		





CB

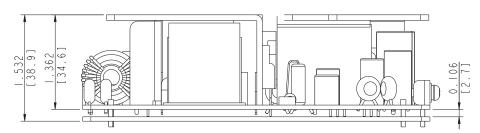


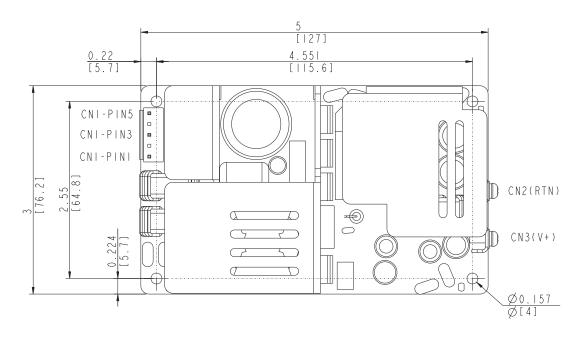
REV 1.1

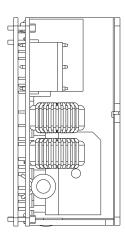
MODELS	MAIN OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE& NOISE(MAX)	MAX TOTAL REGULATION
MKP199C/MKP199M-12	12V	16.67A	120mV	$\pm 3\%$
MKP199C/MKP199M-19	19V	10.52A	190mV	±3%
MKP199C/MKP199M-24	24V	8.33A	240mV	±3%
MKP199C/MKP199M-28	28V	7.14A	280mV	±3%
MKP199C/MKP199M-48	48V	4.16A	480mV	±3%

Naming rules: MKP199y-XX-ABC; MKP199 series name; y=C or M (They are identical); XX=output voltage A=A for class I, B for class II; BC for customer product or not use

OUTLINE DRAWING







AC INPU		
JST P/N: B5P-VH		
Mates With: JST VHR-5N		
Pin 1	Line	
Pin 3	Neutral	
Pin 5	Earth Ground	

Removed

IC OL	JTP	UT		
armin	ale	with	6 32	inch

es Screw Pan HD Mates With: 16 AWG wire crimped to ring Tongue Terminal AMP: 8-31886-1

CN2(RTN) Return	CN3(V+)	Output VDC	
	CN2(RTN)	Return	

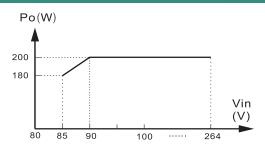
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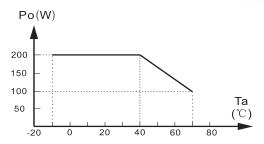
Pin 2.Pin 4

00W Power Supply

OUTPUT POWER VS INPUT VOLTAGE

OUTPUT POWER VS AMBIENT TEMPERATURE

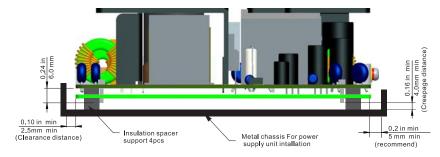




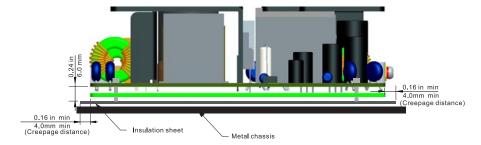
CLEARANCE DISTANCE AND CREEPAGE DISTANCE FOR ASSEMBLY IN ME EQUIPMENT

A. Class II construction & the metal chassis is accessible part or electrically connected to accessible part

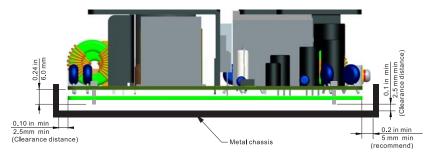
1. Installed on metal chassis



2.Not Installed on metal chassis with insulation sheet



3.Not Installed on metal chassis without insulation sheet



B. Class I construction

The bottom side of the shield board in the power supply is connected to PE, no clearance or creepage distance requirement here. But be careful if there are side walls on the metal chassis, the clearance/creepage distance between side wall and the power supply are 2.5mm min/4.0mm min, and recommonded 3.2 mm/4mm.

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