

MPD-45 Series

45W Dual Output Medical Type Power Supply



Features

- Universal AC input/ Full range
- Low leakage current <250μA
- · Protections: Short circuit, Overload and Over voltage
- Cooling by free air convection
- Fixed switching frequency at 45KHz
- 100% full load burn-in test



Specification

Specification	n					
INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 370VDC.				
	Frequency	47 440 Hz				
	Current	<1.2A@115VAC; 0.7A@230VAC full load				
	Inrush Current	<15A@115VAC, 30A@230VAC Cold start				
	Leakage Current	Earth leakage current <250µA@264VAC input, Touch leakage current <60µA@264VAC				
ОИТРИТ	MODEL No.	MPD-45A		MPD-45B		
	Channel	CH1	CH2	CH1	CH2	
	Voltage	5V	12V	5V	24V	
	Rated Current	3.2A	2A	3.2A	1.2A	
	Current Range	0.4~5A	0.2~2.5A	0.4~5A	0.2~1.8A	
	Output Tolerance	± 4%	± 7%	± 4%	± 7%	
	Line Regulation	± 1%	± 2%	± 1%	± 2%	
	Load Regulation	± 3%	± 4%	± 3%	± 4%	
	Ripple Noise MAX.	60mV	120mV	60mV	150mV	
	Efficiency (TYP.)	76%		78%		
	Rated Power	40W		44.8W		
PROTECTION	Over Voltage	CH1:5.75~6.75V		CH1:5.75~6.75V		
		Hiccup mode, recovers automatically after fault condition is removed				
	Over Load	53~75W rated output power Hiccup mode, recovers automatically after fault condition is removed				
ELEC. CHAR.	Rise Time	<20mS@115~230VAC, full load				
	Hold up Time	>50mS@230VAC, 16ms@115VAC, full load				
	Setup Time	<0.8 Sec@115~230VAC, full load				
ENVIRONMENT	Temperature	Operating: -10 \sim +70 $^{\circ}\mathrm{C}$; Storage: -20 $^{\sim}$ +85 $^{\circ}\mathrm{C}$				
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH				
SAFETY	Withstand Voltage	I/P-O/P4KVAC; I/P-FG:2KVAC; O/P-FG:0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, 100MΩ/500VDC				
	Safety Standard	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 Approved				
EMC	EMI	EN55011 (CISPR11), Class B, EN61000-3-2,3				
	EMS	EN61000-4-2,3,4	EN61000-4-2,3,4,5,6,8,11; EN60601-1-2, Medical level, criteria A			
OTHERS	Cooling	Cooling by free air convection				
	M.T.B.F.	291.3K hrs min. MIL-HDBK-217F (°C)				
	Packing	0.2Kg; 72pcs/17.4Kg/1.35 CUFT				

- $1 \ All \ parameters \ NOT \ specially \ mentioned \ are \ measured \ at \ 230VAC \ input, \ rated \ load \ and \ 25^{\circ}C \ of \ ambient \ temperature$
- 2 Ripple & noise are measured at 20HMHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor
- 3 Tolerance: includes set up tolerance, line regulation and load regulation
- 4 The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives
- 5 Mounting holes M1 and M2 should be grounded for EMI purposes
- 6 Heat sink HS1, HS2 can not be shorted
- 7 Touch current was measured from primary input to DC output $\,$



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