

45W Triple Output Medical Type

MPT-45 series



Features :

- Universal AC input / Full range
- Low leakage current ${\leq}0.3\text{mA}$
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 3 years warranty



SPECIFICATION

MODEL		MPT-45A			MPT-45B	MPT-45B			MPT-45C		
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
OUTPUT	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	
	RATED CURRENT	3A	2A	0.3A	3A	2A	0.3A	3A	1.6A	0.3A	
	CURRENT RANGE	0.4 ~ 5A	0.2 ~ 2.5A	0~0.5A	0.4 ~ 5A	0.2 ~ 2.5A	0~0.5A	0.4 ~ 5A	0.2 ~ 2.3A	0~0.5A	
	RATED POWER	40.5W			42.6W			43.5W			
	OUTPUT POWER (max.)	52W with 18CFM min. Forced air convection									
	RIPPLE & NOISE (max.) Note.2	60mVp-p	120mVp-p	60mVp-p	60mVp-p	120mVp-p	100mVp-p	60mVp-p	120mVp-p	100mVp-	
	VOLTAGE ADJ. RANGE	CH1:4.5~5	CH1:4.5 ~ 5.5V								
	VOLTAGE TOLERANCE Note.3	±4.0%	±7.0%	±5.0%	±4.0%	±7.0%	±5.0%	±4.0%	±7.0%	±5.0%	
	LINE REGULATION	±1.0%	±2.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±2.0%	±1.0%	
	LOAD REGULATION	±3.0%	±4.0%	±1.0%	±3.0%	±4.0%	±1.0%	±3.0%	±4.0%	±1.0%	
	SETUP, RISE TIME	800ms, 20ms/230VAC 800ms, 20ms/115VAC at full load									
	HOLD UP TIME (Typ.)	80ms/230VAC 12ms/115VAC at full load									
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 440Hz									
	EFFICIENCY(Typ.)	73%									
	AC CURRENT (Typ.)	1.2A/115VAC 0.7A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC									
	LEAKAGE CURRENT	<0.3mA / 264VAC									
PROTECTION		53 ~ 75W rated output power									
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed									
		5.75 ~ 6.75VDC on CH1									
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed									
ENVIRONMENT	WORKING TEMP.	-10 ~ +60 $^\circ\mathrm{C}$ (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.04%/℃ (0~50℃) on +5V output									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min.									
ЕМС	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
(Note 4)	EMC EMISSION	Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2, medical level, criteria A									
OTHERS	MTBF	271.5Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	127*76*28mm (L*W*H)									
	PACKING	0.21Kg; 72pcs/18Kg/1.35CUFT									
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) Mounting holes M1 and M2 should be grounded for EMI purposes. Heat Sink HS1,HS2 can not be shorted. 										



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