

### 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.	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			s/115VAC at ful					,	
	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%			75%			75%			
	AC CURRENT (Typ.)	1.2A/115VAC 0.7A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 40A/230VAC 40A/230VAC									
	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°C (Refer to output load derating curve)									
		20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.04%/°C (0~50°C) on +5V output									
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	VIBRATION SAFETY STANDARDS	UL2601-1, TUV EN60601-1, IEC60601-1 approved									
SAFETY & EMC (Note 4)	WITHSTAND VOLTAGE	1/P-O/P:4KVAC 1/P-FG:1.5KVAC 0/P-FG:0.5KVAC 1min.									
	ISOLATION RESISTANCE										
	EMI CONDUCTION & RADIATION	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
		Compliance to EN55011 (CISPR11) Class B									
		Compliance to EN61000-3-2,-3									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN60601-1-2, medical level, criteria A									
OTHERS	MTBF	271.5Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	127*76*28mm (L*W*H)									
NOTE	<ol> <li>All parameters NOT specia</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>The power supply is consid EMC directives. For guidan (as available on http://www.</li> </ol>	2 should be grounded for EMI purposes.									



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