







■ Features :

- Universal AC input / Full range
- Low leakage current <250μA
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Medical safety approved (2 x MOPP between primary to secondary)
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 3 years warranty



■ GTIN CODE

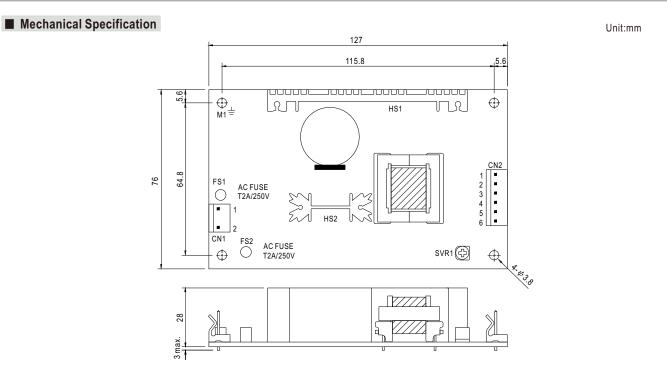
SPECIFICATION

MW Search: https://www.meanwell.com/serviceGTIN.aspx



MODEL		MPT-45A			MPT-45B			MPT-45C			
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
	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									
OUTPUT	RIPPLE & NOISE (max.) Note.2	60mVp-p	120mVp-p	60mVp-p	60mVp-p	120mVp-p	100mVp-p	60mVp-p	120mVp-p	100mVp-p	
	VOLTAGE ADJ. RANGE	CH1:4.5 ~ 5.5	iV								
	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			115VAC at full						
	HOLD UP TIME (Typ.)	80ms/230VAC 12ms/115VAC at full load									
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	90 ~ 204 VAC 127 ~ 370 VDC 47 ~ 63Hz									
	EFFICIENCY(Typ.)	73%			75%			75%			
INPUT	AC CURRENT (Typ.)		0.71/230)\/AC	1070			1370			
	INRUSH CURRENT (Typ.)		1.2A/115VAC 0.7A/230VAC								
	LEAKAGE CURRENT Note.7					60 110/264\/0	^				
	LEARAGE CORRENT Note./	Earth leakage current < 250 PA/264VAC , Touch current < 60 PA/264VAC									
	OVERLOAD	53 ~ 75W rated output power									
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	5.75 ~ 6.75 VDC on CH1									
	WORKING TEMP	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.04%/°C (0 ~ 50°C) 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 & ISOLATION LEVEL Primary-Secondary: 2xMOPP, Primary-Earth:1xMOPP											
EMC	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC 1min.									
(Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION	Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2, medical level									
	EMC IMMUNITY							= (0=00)			
	MTBF	2952.3K hrs		lia SR-332 (Be	llcore) ; 402.8k	Chrs min. M	IIL-HDBK-217F	- (25°C)			
OTHERS	DIMENSION	127*76*28mm (L*W*H)									
	PACKING	0.21Kg; 72pcs/18Kg/1.28CUFT									
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p Mounting holes M1 and M2 Heat Sink HS1,HS2 can no Touch current was measure	leters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. er supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on "360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to hese EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) holes M1 and M2 should be grounded for EMI purposes. k1S1,HS2 can not be shorted. rrent was measured from primary input to DC output. Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									
								F	ile Name:MPT-45-	SPEC 2022-0	





AC Input Connector (CN1): Molex 5277-02 or equivalent

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Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	Molex 5195	Molex 5194
2	AC/N	or equivalent	or equivalent

HS1,HS2 can not be shorted

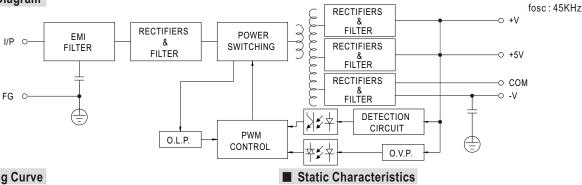
DC Output Connector (CN2): Molex 5273-06 or equivalent

Pin No.	Assignment	Mating Housing	Terminal	
1	+V			
2,3	+5V	Molex 5195	Molex 5194	
4,5	COM	or equivalent	or equivalent	
6	-V			

±: Grounding Required

1.HS1,HS2 cannot be shorted 2.M1 is safety ground

■ Block Diagram



■ Derating Curve

