



User's Manual



■ 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

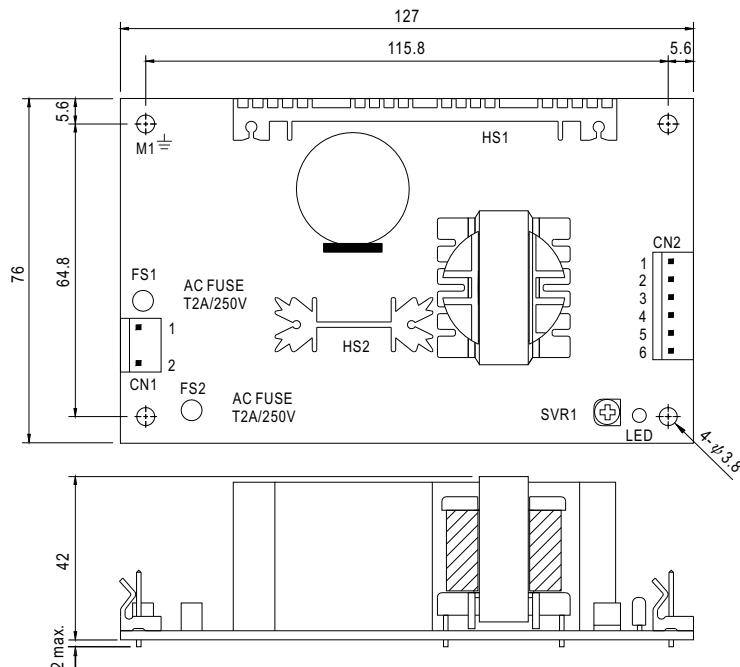
 MW Search: <https://www.meanwell.com/serviceGTIN.aspx>


SPECIFICATION

MODEL	MPT-65A			MPT-65B			MPT-65C															
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3												
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V												
	RATED CURRENT	5.5A	2.5A	0.5A	5.5A	2.5A	0.5A	5.5A	2A	0.5A												
	CURRENT RANGE	0.4 ~ 7A	0.2 ~ 3.2A	0 ~ 0.7A	0.4 ~ 7A	0.2 ~ 3.2A	0 ~ 0.7A	0.4 ~ 7A	0.2 ~ 2.6A	0 ~ 0.7A												
	RATED POWER	60W	63.5W					65W														
	OUTPUT POWER (max.)	72W with 18CFM min. Forced air convection																				
	ripple & noise (max.) Note.2	60mVp-p	120mVp-p	60mVp-p	60mVp-p	160mVp-p	100mVp-p	60mVp-p	180mVp-p	100mVp-p												
	VOLTAGE ADJ. RANGE	CH1:4.5 ~ 5.5V																				
	VOLTAGE TOLERANCE Note.3	±4.0%	+10,-7%	±5.0%	±4.0%	+10,-7%	±5.0%	±4.0%	+10,-7%	±5.0%												
	LINE REGULATION	±1.0%	±2.0%	±1.0%	±1.0%	±2.0%	±1.0%	±1.0%	±2.0%	±1.0%												
INPUT	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																		
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC																				
	FREQUENCY RANGE	47 ~ 63Hz																				
PROTECTION	EFFICIENCY(Typ.)	74%			74%			74%														
	AC CURRENT (Typ.)	1.6A/115VAC		1A/230VAC																		
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC		40A/230VAC																		
	LEAKAGE CURRENT Note.7	Earth leakage current < 250μA/264VAC , Touch current < 60μA/264VAC																				
	OVERLOAD	73 ~ 95W rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed																				
ENVIRONMENT	OVER VOLTAGE	5.75 ~ 6.75VDC on CH1 Protection type : Hiccup mode, recovers automatically after fault condition is removed																				
	WORKING TEMP.	-10 ~ +55°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%/°C (0 ~ 50°C) on +5V output																				
SAFETY & EMC (Note 4)	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																				
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP, Primary-Earth:1xMOPP																				
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC 1min.																				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH																				
OTHERS	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																				
	MTBF	2952.3K hrs min. Telcordia SR-332 (Bellcore) ; 402.8K hrs min. MIL-HDBK-217F (25°C)																				
NOTE	DIMENSION	127*76*42mm (L*W*H)																				
	PACKING	0.27Kg; 54pcs/16.8Kg/1.28CUFT																				
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF & 47μF 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 a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*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 perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 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.																						

■ Mechanical Specification

Unit:mm



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

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

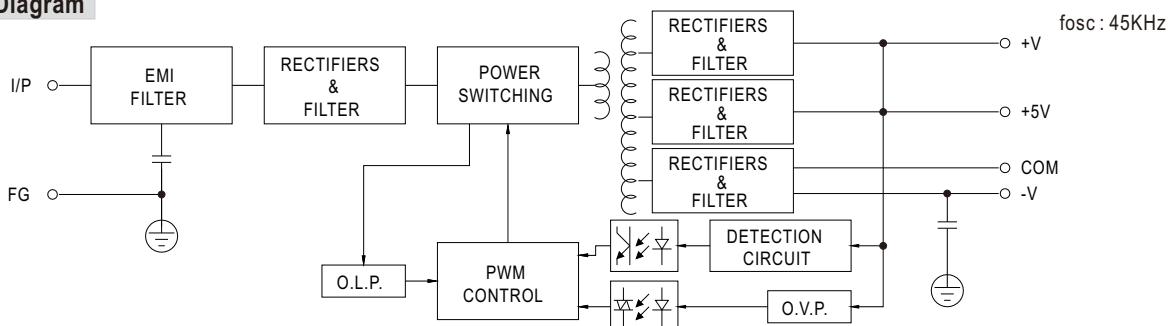
DC Output Connector (CN2) : Molex 5273-06 or equivalent

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

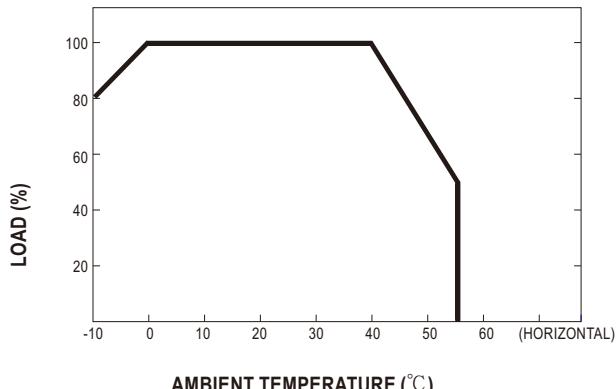
 \perp : Grounding Required

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

■ Block Diagram



■ Derating Curve



■ Static Characteristics

