



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

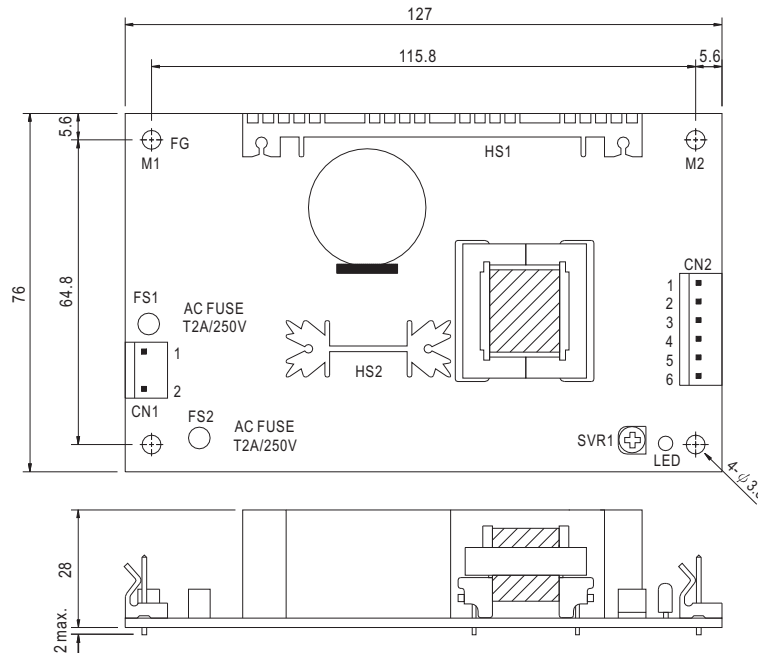


SPECIFICATION

MODEL	MPS-45-3.3	MPS-45-5	MPS-45-7.5	MPS-45-12	MPS-45-13.5	MPS-45-15	MPS-45-24	MPS-45-27	MPS-45-48		
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V	
	RATED CURRENT	8A	8A	5.4A	3.7A	3.3A	3A	1.9A	1.7A	1A	
	CURRENT RANGE	0 ~ 10.7A	0 ~ 10.5A	0 ~ 7A	0 ~ 4.4A	0 ~ 3.9A	0 ~ 3.5A	0 ~ 2.2A	0 ~ 1.95A	0 ~ 1.1A	
	RATED POWER	26.4W	40W	40.5W	44.4W	44.55W	45W	45.6W	45.9W	48W	
	OUTPUT POWER (max.)	52W(+3.3V:35W)with 18CFM min. Forced air convection									
	RIPPLE & NOISE (max.) Note.2	80mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	2.97 ~ 3.63V	4.5 ~ 5.5V	6.75 ~ 8.25V	10.8 ~ 13.2V	12.2 ~ 14.85V	13.5 ~ 16.5V	21.6 ~ 26.4V	24.3 ~ 29.7V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	\pm 3.0%	\pm 3.0%	\pm 3.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	
	LINE REGULATION	\pm 1.0%	\pm 1.0%	\pm 1.0%	\pm 1.0%	\pm 1.0%	\pm 1.0%	\pm 1.0%	\pm 1.0%	\pm 1.0%	
	LOAD REGULATION	\pm 3.0%	\pm 3.0%	\pm 3.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	\pm 2.0%	
SETUP, RISE TIME	800ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load										
HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load										
INPUT	VOLTAGE RANGE	90 ~ 264VAC		127 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 440Hz									
	EFFICIENCY(Typ.)	65%	72%	75%	76%	76%	77%	78%	78%	78%	
	AC CURRENT (Typ.)	1.2A/115VAC		0.7A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 17A/115VAC		35A/230VAC							
LEAKAGE CURRENT Note.7	Earth leakage current < 250 μ A/264VAC , Touch leakage current < 60 μ A/264VAC										
PROTECTION	OVERLOAD	53 ~ 75W (3.3V:36 ~ 55W) rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	3.8 ~ 4.46V	5.75 ~ 6.75V	8.63 ~ 10.1V	13.8 ~ 16.2V	15.5 ~ 18.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	31 ~ 36.45V	55.2 ~ 64.8V	
ENVIRONMENT	WORKING TEMP.	-10 ~ +60 $^{\circ}$ C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20 ~ +85 $^{\circ}$ C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	\pm 0.04%/ $^{\circ}$ C (0 ~ 50 $^{\circ}$ C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC (Note 4)	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved									
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC		I/P-FG:2KVAC		O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25 $^{\circ}$ C / 70% RH									
	EMC EMISSION	Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3									
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2, medical level, criteria A									
	MTBF	366.1Khrs min.		MIL-HDBK-217F (25 $^{\circ}$ C)							
	DIMENSION	127*76*28mm (L*W*H)									
	PACKING	0.18Kg; 72pcs/15.1Kg/1.35CUFT									
NOTE	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 20MHz 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 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) 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/N	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/L		

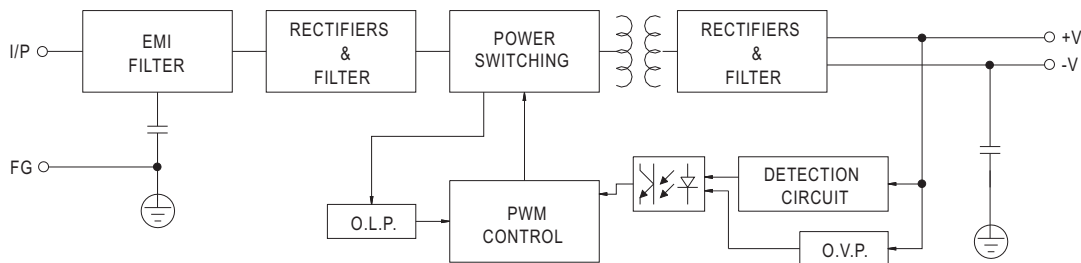
DC Output Connector (CN2) : Molex 5273-06 or equivalent

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

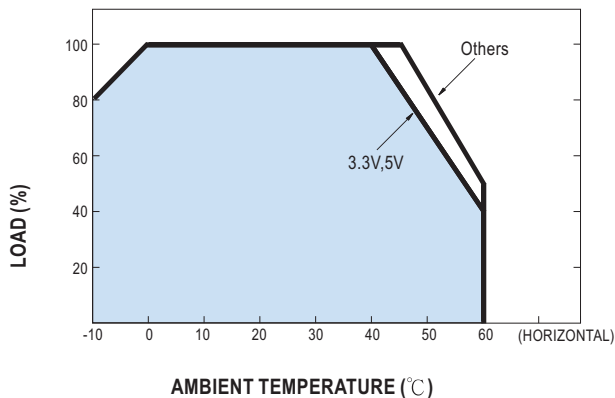
⚠ HS1,HS2 can not be shorted

Block Diagram

fosc : 45KHz



Derating Curve



Static Characteristics

