

SPECIFICATION

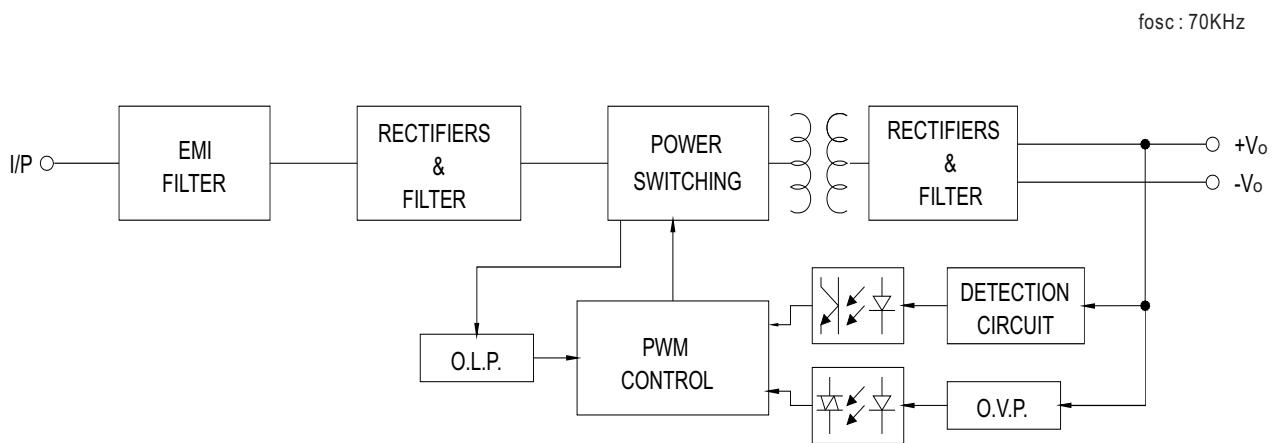
MODEL	MPM-45-5 <input type="checkbox"/>	MPM-45-12 <input type="checkbox"/>	MPM-45-15 <input type="checkbox"/>	MPM-45-24 <input type="checkbox"/>	MPM-45-48 <input type="checkbox"/>					
OUTPUT	DC VOLTAGE	5V	12V	15V	24V					
	CURRENT Peak(10 sec.)	8.8A	4.13A	3.3A	2.1A					
	Convection	8A	3.75A	3A	1.88A					
	RATED POWER	Peak(10 sec.) ^{Note.2}	44W	49.5W	50.4W					
	Convection	40W	45W	45W	45W					
	RIPPLE & NOISE (max.) ^{Note.3}	80mVp-p	120mVp-p	120mVp-p	200mVp-p					
	VOLTAGE TOLERANCE ^{Note.4}	±2.0%	±2.0%	±2.0%	±2.0%					
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%					
	LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%					
	SETUP, RISE TIME	1000ms, 30ms/230VAC	1000ms, 30ms/115VAC at full load							
INPUT	HOLD UP TIME (Typ.)	50ms/230VAC	12ms/115VAC at full load							
	VOLTAGE RANGE ^{Note.5}	80 ~ 264VAC	113 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	88%	91.5%	92.5%	92.5%	92%				
	AC CURRENT (Typ.)	1.2A/115VAC	0.6A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START	30A/115VAC	60A/230VAC						
PROTECTION	LEAKAGE CURRENT (max.) ^{Note.6}	Touch current <100 μ A/264VAC								
	OVERLOAD	115% ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	5.3 ~ 7.2V	12.6 ~ 16.2V	15.8 ~ 20.3V	25.2 ~ 32.4V	50.4 ~ 64.8V				
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover								
ENVIRONMENT	WORKING TEMP.	-30 ~ +80°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP.	-40 ~ +85°C								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)								
	SOLDERING TEMPERATURE	260°C ± 5°C/10sec.max.								
	VIBRATION	Blank:10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ST:10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	OPERATING ALTITUDE ^{Note.7}	4000 meters / OVC II								
SAFETY & EMC (Note 8)	SAFETY STANDARDS	IEC60601-1, BS EN/EN60601-1, EAC TP TC 004, UL ANSI/AAMI ES60601-1(3.1 version), CAN/CSA-C22 3 rd Edition approved; Design refer to BS EN/EN60335-1(by request)								
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP								
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION	Parameter	Standard	Test Level / Note						
		Conducted	BS EN/EN55011 (CISPR11)	Class B						
		Radiated	BS EN/EN55011 (CISPR11)	Class B						
		Harmonic Current	BS EN/EN61000-3-2	Class A						
		Voltage Flicker	BS EN/EN61000-3-3	----						
	EMC IMMUNITY	BS EN/EN60601-1-2								
		Parameter	Standard	Test Level / Note						
		ESD	BS EN/EN61000-4-2	Level 4, 15KV air ; Level 4, 8KV contact						
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz)						
		EFT bursts	BS EN/EN61000-4-4	Level 3, 2KV						
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line						
		Conducted susceptibility	BS EN/EN61000-4-6	Level 3, 10V						
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4, 30A/m						
OTHERS	Voltage dip, interruption	BS EN/EN61000-4-11 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods								
	MTBF	563.44Khrs min.	MIL-HDBK-217F (25°C);	1530.14Khrs min.	Telcordia TR/SR-332 (Bellcore) (25°C)					
	DIMENSION	PCB mounting style : 87*52*29.5mm (L*W*H)		Screw terminal style : 109*52*33.5mm (L*W*H)						
NOTE	PACKING	PCB mounting style : 0.185Kg;60pcs/12.1Kg/0.94CUFT		Screw terminal style : 0.206Kg;50pcs/11.3Kg/0.56CUFT						
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ f & 47 μ f parallel capacitor. 4. Tolerance : includes set up tolerance, line regulation and load regulation. 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. Touch current was measured from primary input to DC output. 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 8. 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)									
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										



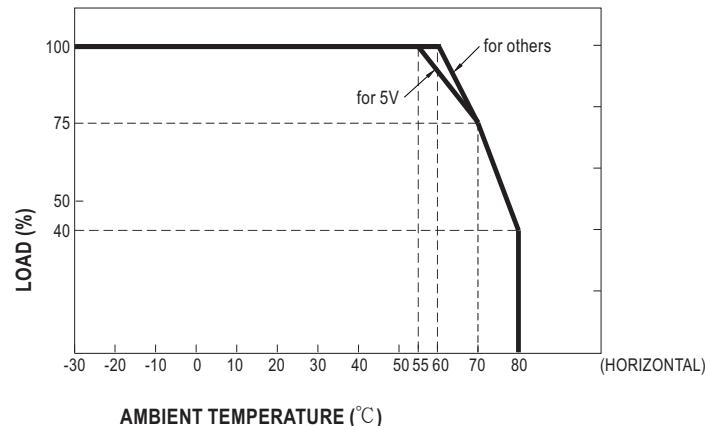
45W AC-DC High Reliable PCB-Mount Green Medical Power Module

MPM-45 series

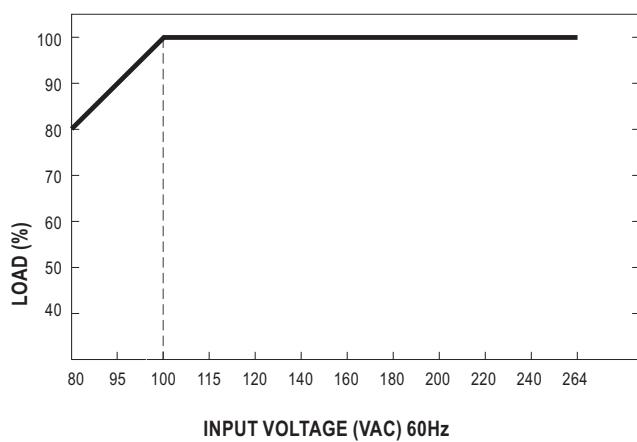
■ Block Diagram



■ Derating Curve



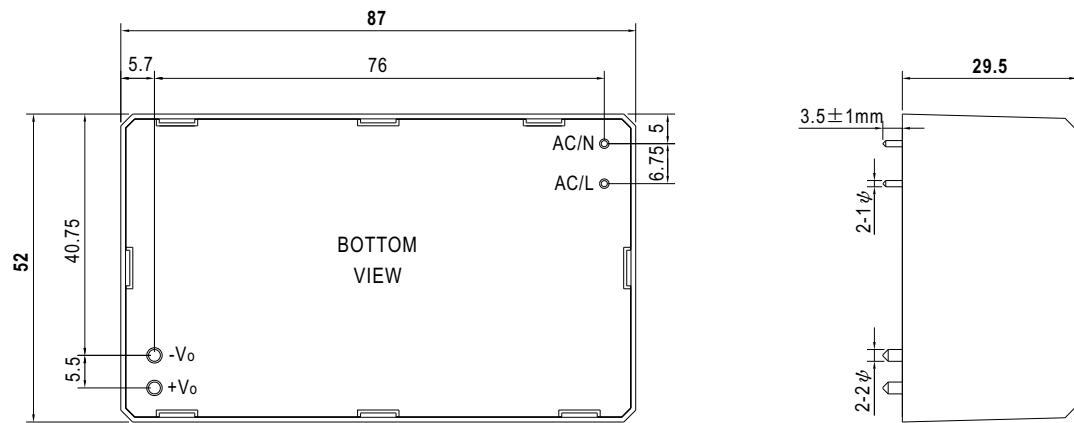
■ Output Derating VS Input Voltage



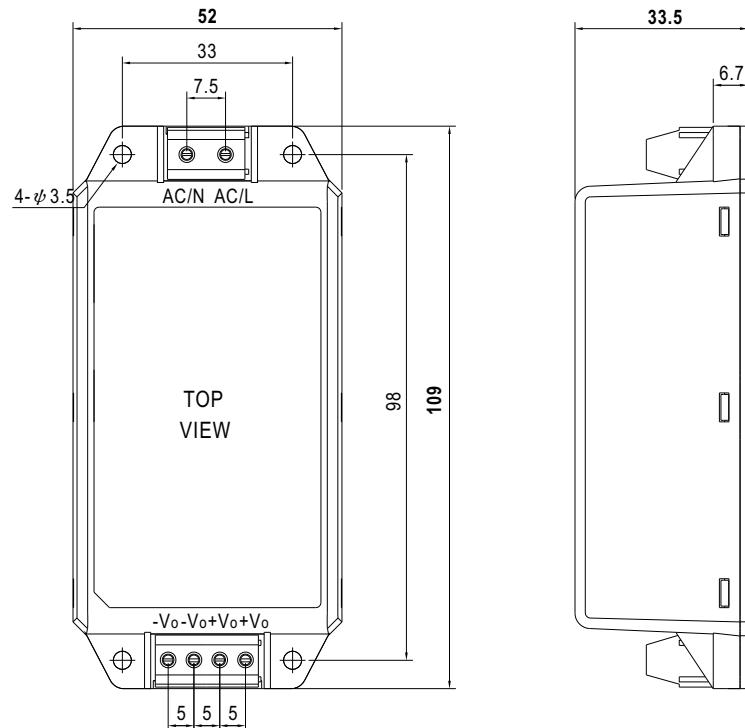
■ Mechanical Specification

Case No. IRM60 Unit:mm

- PCB mounting style (MPM-45)


 AC/L, AC/N P/N diameter: 1ψ
 +V_o, -V_o P/N diameter: 2ψ

- Screw terminal style (MPM-45-xxST)


■ Installation Manual

 Please refer to : <http://www.meanwell.com/manual.html>