

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China























■ Features

- 1.8"x1" compact size
- Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Suitable for BF application with appropriate system consideration
- No load power consumption<0.075W
- Extremely low leakage current
- Wide operating temp. range -40 ~ +85°C
- EMI class B for class Ⅱ configuration
- Protections:
 Short circuit / Overload / Over voltage / Over temperature
- · No minimum load required
- Typical lifetime > 48K hours
- · 3 years warranty

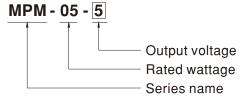
Applications

- · Portable medical device
- Mobile clinical workstation
- Medical computer monitor
- · Medical examination instrument

Description

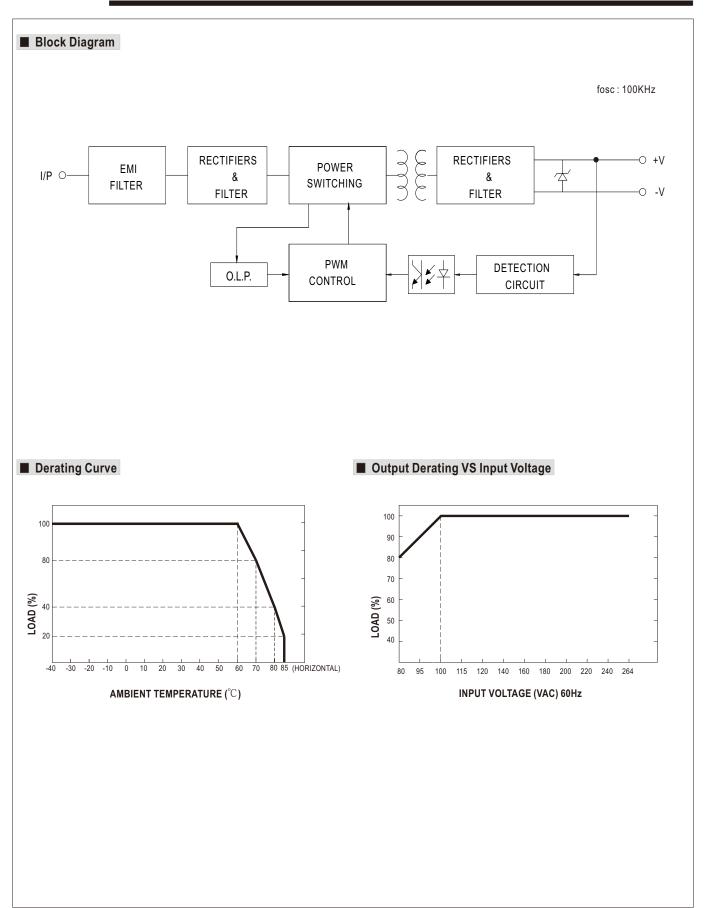
MPM-05 is a 5W high density and small size (45.7*25.4*21.5mm) AC/DC module type medical grade power supply series offered in pin type. It features the operation for 80~264VAC, a low no load power consumption less than 0.075W, a high efficiency up to 82%, Class II (no FG) double insulation, outstanding dissipation and high lifespan thanks to the interior potting, 5G anti-vibration, high EMC performance, 4KVAC isolation, etc. The design observes IEC/EN60601-1 and ANSI/AAMI ES60601-1 version three with 2xMOPP level and ultra-low leakage current (<80 μ A). It is very suitable for BF (patient contact) type medical device or relevant equipment.

■ Model Encoding



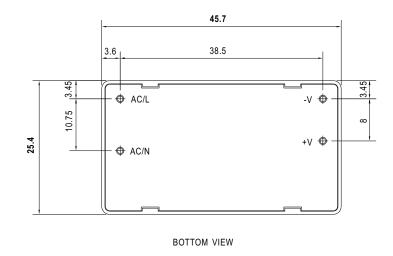
SPECIFICATION

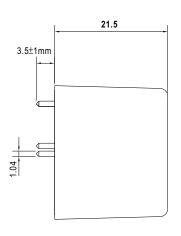
	MPM-05-3.3	MPM-05-5	MPM-05-12	MPM-05-15	MPM-05-24	
DC VOLTAGE	3.3V	5V	12V	15V	24V	
RATED CURRENT	1.25A	1A	0.42A	0.33A	0.23A	
	-				0 ~ 0.23A	
					0.25A	
					5.5W	
					6W	
` '						
		· ·			180mVp-p	
					±2.5%	
LINE REGULATION					±0.3%	
	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
SETUP, RISE TIME	1000ms, 30ms/230VAC	1000ms, 30ms/115VA	C at full load			
HOLD UP TIME (Typ.)	40ms/230VAC 12ms	/115VAC at full load				
VOLTAGE RANGE Note.6	80 ~ 264VAC					
FREQUENCY RANGE	47 ~ 440Hz					
EFFICIENCY (Tvp.)	74%	80%	80%	81%	82%	
1, 2, 1,						
	COLD START 25A/115VAC 45A/230VAC					
() ()						
LEAKAGE CURRENT (max.) Note./						
OVERLOAD PROTECTION OVER VOLTAGE						
	Protection type : Hiccup n		· · · · · · · · · · · · · · · · · · ·			
	3.8 ~ 5V	5.8 ~ 6.8V	13.8 ~ 16.2V	17.3 ~ 20.3V	27.6 ~ 32.4V	
	Protection type : Shut off	o/p voltage, clamping by	zener diode			
OVER TEMPERATURE	Protection type : Shut dov	vn o/p voltage, recovers a	utomatically after temp	erature goes down		
WORKING TEMP.	-40 ~ +85°C (Refer to "De	erating Curve")				
WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	$-40 \sim +100^{\circ}\text{C}, \ 10 \sim 95\% \ \text{RH non-condensing}$ $\pm 0.03\% / ^{\circ}\text{C} \ (0 \sim 60^{\circ}\text{C})$ $260^{\circ}\text{C} \pm 5^{\circ}\text{C} / 10 \text{sec.max}.$ $10 \sim 500 \text{Hz}, 5\text{G } 10 \text{min.} / 1 \text{cycle, period for } 60 \text{min. each along X, Y, Z axes}$					
OPERATING ALTITUDE Note.8						
SAFETY STANDARDS	refer to EN60335-1 Primary-Secondary: 2xMOPP					
ISOLATION LEVEL						
WITHSTAND VOLTAGE						
ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
EMC EMISSION SAFETY & EMC (Note 9)					Test Level / Note	
					Class B	
			,			
			/			
					1	
		ENOT	100-3-3			
	Parameter	Stand	ard	Test L	evel / Note	
	ESD	EN610	EN61000-4-2		Level 4, 15KV air ; Level 4, 8KV contact	
	RF field suscentibility	EN610	FN61000-4-3		Level 3, 10V/m(80MHz~2.7GHz)	
	- Tri ficia sasceptibility	LITOIC			9, 9~28V/m(385MHz~5.78GHz)	
EMC IMMUNITY	EFT bursts	EN610	EN61000-4-4		Level 3, 2KV	
LINC IMMONTT	Surge susceptibility	EN610	EN61000-4-5		3, 1KV/Line-Line	
	Conducted susceptibility	y EN610	EN61000-4-6		3, 10V	
	Magnetic field immunity	EN610	EN61000-4-8		4, 30A/m	
	V-14	5 11044	ENG4000 4 44		dip 1 periods, 30% dip 25 periods	
	voitage dip, interruption	EN610	100-4-11	100% i	interruptions 250 periods	
MTBF	1799.5Khrs min. MIL-H	HDBK-217F (25°C)				
DIMENSION	45.7*25.4*21.5mm (L*W*H) or 1.8*1.0"0.85" inch					
PACKING	0.035Kg: 270pcs/10.5Kg	/0.97CUFT				
2. No minimum load required.3. 33% Duty cycle maximum	within every 30 seconds. ed at 20MHz of bandwidth tolerance, line regulation	Average output power so by using a 12" twisted pand load regulation.	nould not exceed the r	ated power th a 0.1 µf & 47 µf par	rallel capacitor.	
	RATED CURRENT CURRENT RANGE Note.2 PEAK CURRENT RATED POWER PEAK LOAD(10sec.) Note.3 RIPPLE & NOISE (max.) Note.4 VOLTAGE TOLERANCE Note.5 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.6 FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT (max.) Note.7 OVERLOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT SOLDERING TEMPERATURE VIBRATION OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION MTBF DIMENSION PACKING 1. All parameters NOT special 2. No minimum load required. 3. 33% Duty cycle maximum.	RATED CURRENT	RATED CURRENT	RATED CURRENT 1.25A	RATED CURRENT 1.25A	



■ Mechanical Specification

Case No.222A Unit:(mm)





SIDE VIEW

■ Installation Manual

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