

MPM-10 series





















Features

- 1.8"x1" compact size
- · Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/BS EN/EN60601-1
- · Suitable for BF application with appropriate system consideration
- No load power consumption<0.075W
- Extremely low leakage current
- Wide operating temp. range -30 ~ +85°C
- EMI class B for class Ⅱ configuration
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · No minimum load required
- · 3 years warranty

Applications

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

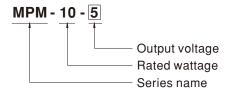
■ GTIN CODE

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

Description

MPM-10 is a 10W 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 84%, Class $\,\mathrm{II}\,$ (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/BS EN/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







MPM-10 series

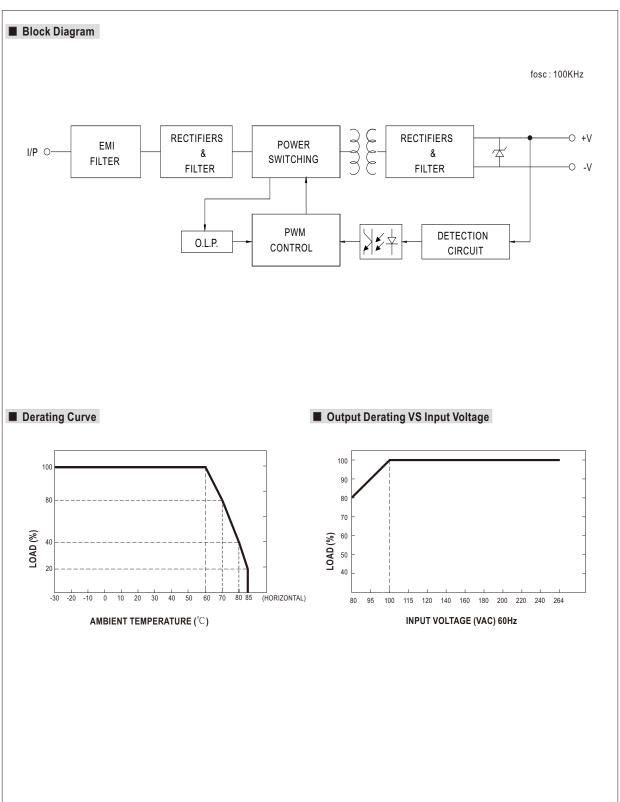
SPECIFICATION

-		MPM-10-3.3	MPM-10-5	MPM-10-12	MPM-10	-15	MPM-10-24	
-	DC VOLTAGE	3.3V	5V	12V	15V		24V	
	RATED CURRENT	2.5A	2A	0.85A	0.67A		0.42A	
	CURRENT RANGE Note.2	0 ~ 2.5A	0 ~ 2A	0 ~ 0.85A	0 ~ 0.67	1	0 ~ 0.42A	
	PEAK CURRENT	2.75A	2.2A	0.94A	0.74A		0.46A	
-								
ОИТРИТ	RATED POWER	8.3W	10W	10.2W	10W		10W	
	PEAK LOAD(10sec.) Note.3		11W	11.3W	11.1W		11W	
	RIPPLE & NOISE (max.) Note.4	120mVp-p	100mVp-p	180mVp-p	180mVp-	·p	200mVp-p	
	VOLTAGE TOLERANCE Note.5	±2.5%	±2.5%	±2.5%	±2.5%		±2.5%	
	LINE REGULATION	±0.3%	±0.3%	±0.3%	±0.3%		±0.3%	
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%		±0.5%	
	SETUP, RISE TIME				1 = 0.0 /0			
	· · · · · · · · · · · · · · · · · · ·	1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	40ms/230VAC 8ms/115VAC at full load						
INPUT	VOLTAGE RANGE Note.6	80 ~ 264VAC						
	FREQUENCY RANGE	47 ~ 440Hz						
	EFFICIENCY (Typ.)	78%	81%	83%	83%		84%	
	AC CURRENT (Typ.)	0.3A/115VAC 0.2A/230VAC						
	INRUSH CURRENT (Typ.)							
		COLD START 25A/115VAC 45A/230VAC						
	LEAKAGE CURRENT (max.) Note.7	Touch current <80μA/264VAC						
	OVEDI OAD	110% ~ 180% rated outpo	ut power					
	OVERLOAD OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
ROTECTION		3.8 ~ 5V	5.8 ~ 6.8V	13.8 ~ 16.2V	17.3 ~ 20	.3V	27.6 ~ 32.4V	
KOILOIION		Protection type : Shut off			7		1 =	
		• • • • • • • • • • • • • • • • • • • •		• •				
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT	WORKING TEMP.	-30 ~ +85°C (Refer to "De	erating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~+100°C, 10 ~95% RH non-condensing						
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)						
	SOLDERING TEMPERATURE	260°C ±5°C/10sec.max.						
	VIBRATION		cycle, period for 60n	nin. each along X, Y, Z axes	i			
	LEAD TEMPERATURE	260±5°C,5s (max.)						
ļ	OBERATING ALTITUDE	5000 meters						
	OPERATING ALTITUDE Note.8							
		IEC60601-1, BS EN/EN6		004, UL ANSI/AAMI ES606	01-1(3.1 version), CAN/CSA	-C22 3 rd Edition approved ;	
	SAFETY STANDARDS	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN	N60335-1(by reques		01-1(3.1 version), CAN/CSA	-C22 3 rd Edition approved ;	
		IEC60601-1, BS EN/EN6	N60335-1(by reques		01-1(3.1 version), CAN/CSA	-C22 3 rd Edition approved ;	
	SAFETY STANDARDS	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN	N60335-1(by reques		01-1(3.1 version), CAN/CSA	-C22 3 rd Edition approved ;	
	SAFETY STANDARDS ISOLATION LEVEL	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM	N60335-1(by reques OPP	t)	01-1(3.1 version), CAN/CSA	-C22 3 rd Edition approved ;	
	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EI Primary-Secondary: 2xM I/P-O/P:4KVAC	N60335-1(by reques OPP OVDC / 25°C / 70% R	t)	`), CAN/CSA		
	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EI Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter	N60335-1(by reques OPP OVDC / 25°C / 70% R	t) H Standard		Test Level /		
	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted	N60335-1(by reques OPP OVDC / 25°C / 70% R S	H Btandard SS EN/EN55011 (CISPR11)		Test Level /		
	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated	N60335-1(by reques OPP OVDC / 25°C / 70% R \$ E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11)		Test Level / Class B Class B		
	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2		Test Level / Class B Class B		
	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11)		Test Level / Class B Class B		
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SAFETY & .	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2		Test Level / Class B Class B	Note	
SAFETY & .	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter	N60335-1(by reques OPP DVDC / 25°C / 70% R E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3		Test Level / Class B Class B Class A	Note Note	
SAFETY & .	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2	N60335-1(by reques OPP DVDC / 25°C / 70% R E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3		Test Level / Class B Class B Class A Test Level / Level 4, 15K	Note Note Vair; Level 4, 8KV contace	
SAFETY &	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3		Test Level / Class B Class B Class A Test Level /, 15k Level 4, 15k Level 3, 10v	Note Note Vair; Level 4, 8KV contact/m(80MHz~2.7GHz)	
SAFETY &	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Perimary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter ESD RF field susceptibility	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3 Standard SS EN/EN61000-4-2 SS EN/EN61000-4-3		Test Level / Class B Class B Class A Test Level /, 15k Level 4, 15k Level 3, 10v Table 9, 9~2	Note Note Vair; Level 4, 8KV contact/m(80MHz~2.7GHz) 8V/m(385MHz~5.78GHz)	
SAFETY & . IMC Note 9)	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E E E E E E E E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3 Standard SS EN/EN61000-4-2 SS EN/EN61000-4-3 SS EN/EN61000-4-3 SS EN/EN61000-4-4		Test Level / Class B Class B Class A Test Level /, 15k Level 3, 10v Table 9, 9-2 Level 3, 2K\	Note Note Vair; Level 4, 8KV contact/m(80MHz~2.7GHz) 8V/m(385MHz~5.78GHz)	
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SAFETY & . EMC Note 9)	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E E E E E E E E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3 Standard SS EN/EN61000-4-2 SS EN/EN61000-4-3 SS EN/EN61000-4-3 SS EN/EN61000-4-4		Test Level / Class B Class B Class A Test Level /, 15k Level 3, 10v Table 9, 9-2 Level 3, 2K\	Note Note Vair; Level 4, 8KV contact/m(80MHz~2.7GHz) 8V/m(385MHz~5.78GHz) ///Line-Line	
SAFETY & . EMC Note 9)	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility	N60335-1(by reques OPP OVDC / 25°C / 70% R E E E E E E E E E E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3 Standard SS EN/EN61000-4-2 SS EN/EN61000-4-3 SS EN/EN61000-4-4 SS EN/EN61000-4-5		Test Level / Class B Class B Class A Test Level /, 15k Level 3, 10v Table 9, 9-2 Level 3, 2kv Level 3, 1kv	Note Note Vair; Level 4, 8KV contact/m(80MHz~2.7GHz) 8V/m(385MHz~5.78GHz) ///Line-Line	
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SAFETY & . IMC Note 9)	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Voltage dip, interruption	N60335-1(by reques OPP DVDC / 25°C / 70% R E E E E E E E E E E E E E	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3 SS EN/EN61000-4-2 SS EN/EN61000-4-2 SS EN/EN61000-4-5 SS EN/EN61000-4-6 SS EN/EN61000-4-8 SS EN/EN61000-4-8 SS EN/EN61000-4-11		Test Level / Class B Class B Class A C	Note Note Vair; Level 4, 8KV contact/m(80MHz~2.7GHz) 8V/m(385MHz~5.78GHz) ///Line-Line	
AFETY & MC Note 9)	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Voltage dip, interruption 9314.1K hrs min. Telo	00000000000000000000000000000000000000	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3 SS EN/EN61000-4-2 SS EN/EN61000-4-2 SS EN/EN61000-4-5 SS EN/EN61000-4-6 SS EN/EN61000-4-8 SS EN/EN61000-4-8 SS EN/EN61000-4-11 Ore); 1756.2K hrs min. M		Test Level / Class B Class B Class A C	Note Note Vair; Level 4, 8KV contact Vm(80MHz~2.7GHz) 8V/m(385MHz~5.78GHz) V//Line-Line Vm periods, 30% dip 25 period	
AFETY & MC lote 9)	SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION	IEC60601-1, BS EN/EN6 Design refer to BS EN/EN6 Design refer to BS EN/EN6 Primary-Secondary: 2xM I/P-O/P:4KVAC I/P-O/P:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Voltage dip, interruption 9314.1K hrs min. Telo 45.7*25.4*21.5mm (L*W*	00000000000000000000000000000000000000	H Standard SS EN/EN55011 (CISPR11) SS EN/EN55011 (CISPR11) SS EN/EN61000-3-2 SS EN/EN61000-3-3 SS EN/EN61000-4-2 SS EN/EN61000-4-2 SS EN/EN61000-4-5 SS EN/EN61000-4-6 SS EN/EN61000-4-8 SS EN/EN61000-4-8 SS EN/EN61000-4-11 Ore); 1756.2K hrs min. M		Test Level / Class B Class B Class A C	Note Note Vair; Level 4, 8KV contact Vm(80MHz~2.7GHz) 8V/m(385MHz~5.78GHz) V//Line-Line Vm periods, 30% dip 25 period	
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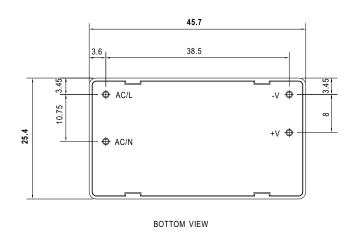


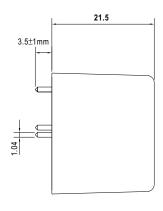


MPM-10 series

■ Mechanical Specification

Case No.222A Unit:(mm)





SIDE VIEW

■ Installation Manual

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





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