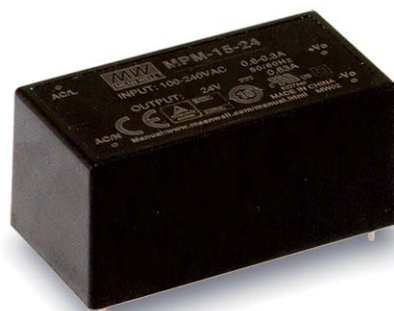




Наличие и актуальные цены на

MPM-15-12

<https://www.mean-well.ru/store/MPM-15-12/>



BS EN/EN60335-1 ANSI/AAMI ES60601-1 BS EN/EN60601-1 IEC60601-1 TPTC004

Features

- 2.06"x1.07" 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<0.1W
- 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
- 3 years warranty

Applications

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

GTIN CODE

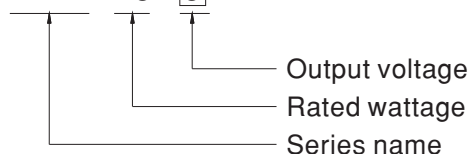
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

Description

MPM-15 is a 15W high density and small size (52.4*27.2*24mm) AC/DC module type medical power supply series offered in pin type. It features the operation for 80~264VAC, a low no load power consumption less than 0.1W, a high efficiency up to 87%, Class II (no FG) double insulation, outstanding dissipation and high lifespan thanks to the interior potting, 2G 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

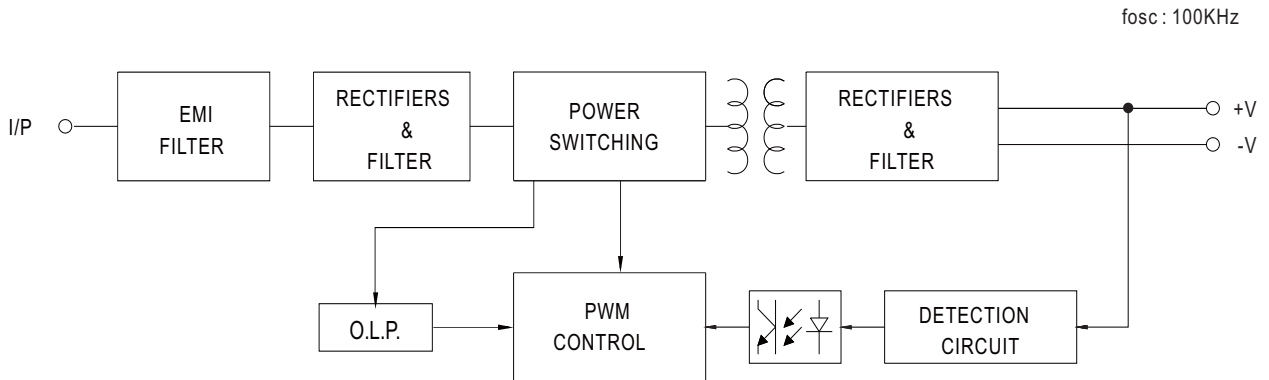
MPM - 15 - 5



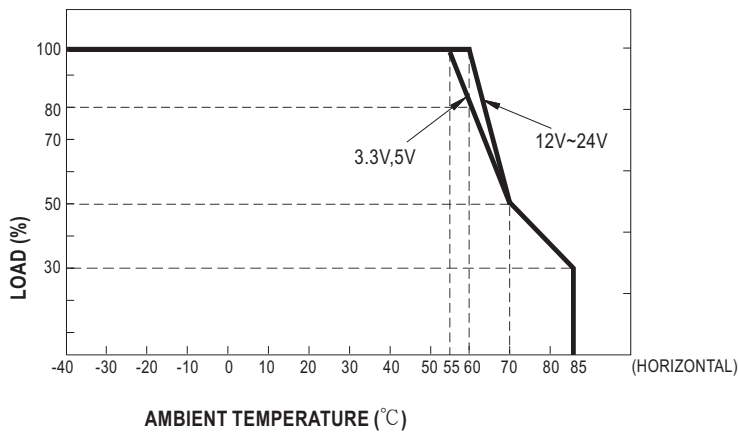
SPECIFICATION

MODEL		MPM-15-3.3	MPM-15-5	MPM-15-12	MPM-15-15	MPM-15-24
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V
	RATED CURRENT	3.5A	3A	1.25A	1A	0.63A
	CURRENT RANGE Note.2	0 ~ 3.5A	0 ~ 3A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A
	PEAK CURRENT	3.85A	3.3A	1.38A	1.1A	0.69A
	RATED POWER	11.6W	15W	15W	15W	15.1W
	PEAK LOAD(10sec.) Note.3	12.7W	16.5W	16.6W	16.5W	16.6W
	RIPPLE & NOISE (max.) Note.4	150mVp-p	150mVp-p	150mVp-p	180mVp-p	180mVp-p
	VOLTAGE TOLERANCE Note.5	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1500ms, 30ms/230VAC 1500ms, 30ms/115VAC at full load				
	HOLD UP TIME (Typ.)	40ms/230VAC 10ms/115VAC at full load				
INPUT	VOLTAGE RANGE Note.6	80 ~ 264VAC 113V~370VDC				
	FREQUENCY RANGE	47 ~ 440Hz				
	EFFICIENCY (Typ.)	83.5%	85.5%	86.5%	87%	86.5%
	AC CURRENT (Typ.)	0.6A/115VAC 0.3A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC 45A/230VAC				
	LEAKAGE CURRENT (max.) Note.7	Touch current <80 μ A/264VAC				
PROTECTION	OVERLOAD	110% ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	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 down o/p voltage, recovers automatically after temperature goes down				
ENVIRONMENT	WORKING TEMP.	-40 ~ +85℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)				
	SOLDERING TEMPERATURE	Wave soldering: 265℃, 5s (max.); Manual soldering: 390℃, 3s (max.)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	OPERATING ALTITUDE Note.8	5000 meters				
SAFETY & EMC (Note.9)	SAFETY STANDARDS	IEC60601-1, TUV BS EN/EN60601-1, IEC60335-1, Dekra BS EN/EN60335-1, EAC TP TC 004, UL ANSI/AAMI ES60601-1 (3.1 version), CAN/CSA-C22 3 rd Edition approved				
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP				
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH				
	EMC EMISSION	Parameter	Standard		Test Level / Note	
		Conducted emission	BS EN/EN55011 (CISPR11)		Class B	
		Radiated emission	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/EN55035, 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	
		Voltage dip, interruption	BS EN/EN61000-4-11		100% dip 1 periods, 30% dip 25 periods, 100% interruptions 250 periods	
OTHERS	MTBF	7319.8K hrs min. Telcordia SR-332 (Bellcore) ; 1210.0K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	52.4*27.2*24mm (L*W*H) or 2.06"*1.07"*0.94" inch				
	PACKING	0.056Kg; 240pcs/14.4Kg/0.94CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. No minimum load required. 3. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 4. 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. 5. Tolerance : includes set up tolerance, line regulation and load regulation. 6. Derating may be needed under low input voltages. Please check the derating curve for more details. 7. Touch current was measured from primary input to DC output. 8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 9. 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					

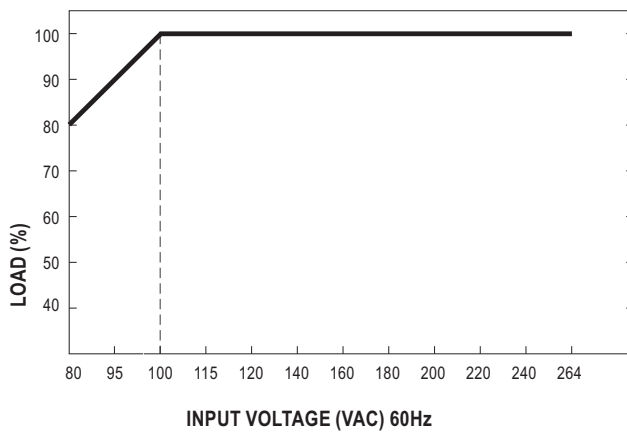
Block Diagram



Derating Curve

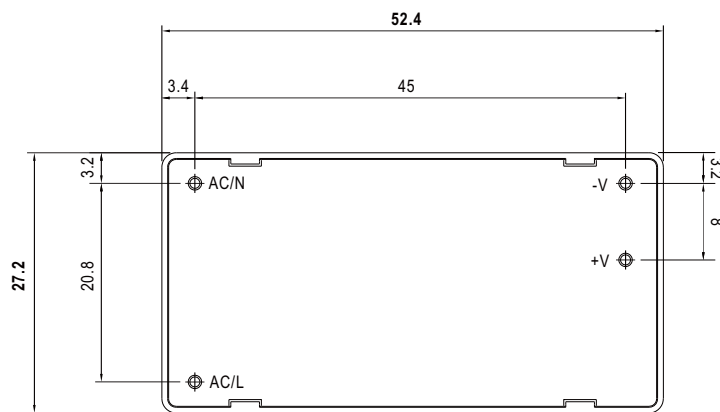


Output Derating VS Input Voltage

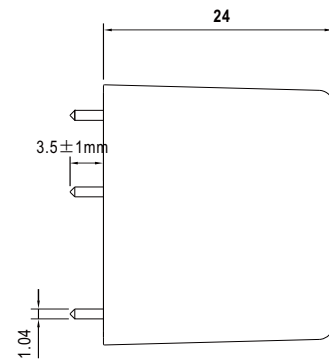


Mechanical Specification

Case No.219A Unit:(mm)



BOTTOM VIEW



P/N diameter:1.04

SIDE VIEW

Installation Manual

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