



10W AC/DC Converter with OVP Function PM Series



Feature:

- Universal AC input / full arnge
- Protection: short circuit / overload / over voltage
- Ultra-Miniature size, light weight
- Isolation class II
- UL60601-1 / IEC60601-1 / TUV EN60601-1 medical safety approved
- No load power consumption < 0.5W
- Fixed switching frequency at 67KHz
- 3-year warranty

Specification:

Product No.		PM-10-3.3	PM-10-5	PM-10-12	PM-10-15	PM-10-24
Output	DC Voltage	3.3V	5V	12V	15V	24V
	Rated Current	2.5A	2A	0.85A	0.67A	0.42A
	Current Range	0-2.5A	0-2A	0-0.85A	0-0.67A	0-0.42A
	Rated Power	8.25W	10W	10.2W	10.05W	10.08W
	Ripple & Noise Max. Note 2	80mVp-p	80mVp-p	150mVp-p	150mVp-p	240mVp-p
	Voltage Tolerance Note 3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±0.5%
	Setup, Rise Time	1000ms, 20ms/230VAC, 1000ms, 20ms/115VAC at full load				
	Hold up Time (Typ.)	100ms/230VAC, 24ms/115VAC at full load				
Input	Voltage Range	85-264VAC, 120-370VDC				
	Frequency Range	47-440Hz				
	Efficiency (Typ.)	66%	74%	78%	79%	79%
	AC Current (Typ.)	0.25A/115VAC 0.15A/230VAC				
	Inrush Current (Typ.)	Cold Start 25A/115VAC 45A/230VAC				
Protection	Over Load	Above 105% rated output power Protection type: Hiccup mode, recover automatically				
	Over Voltage	3.8-4.95V	5.75-6.75V	13.8-16.2V	17.25-20.25V	27.6-32.4V
Environment	Working Temp.	-20 - +70°C (refer to output load derating curve)				
	Working Humidity	20 - 90% RH non-condensing				
	Storage Temp. / Humidity	-40 - +85°C, 10 - 95% RH				
	Temp. Coefficient	±0.03% / °C (0 - 50°C)				
	Vibration	10 - 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes				



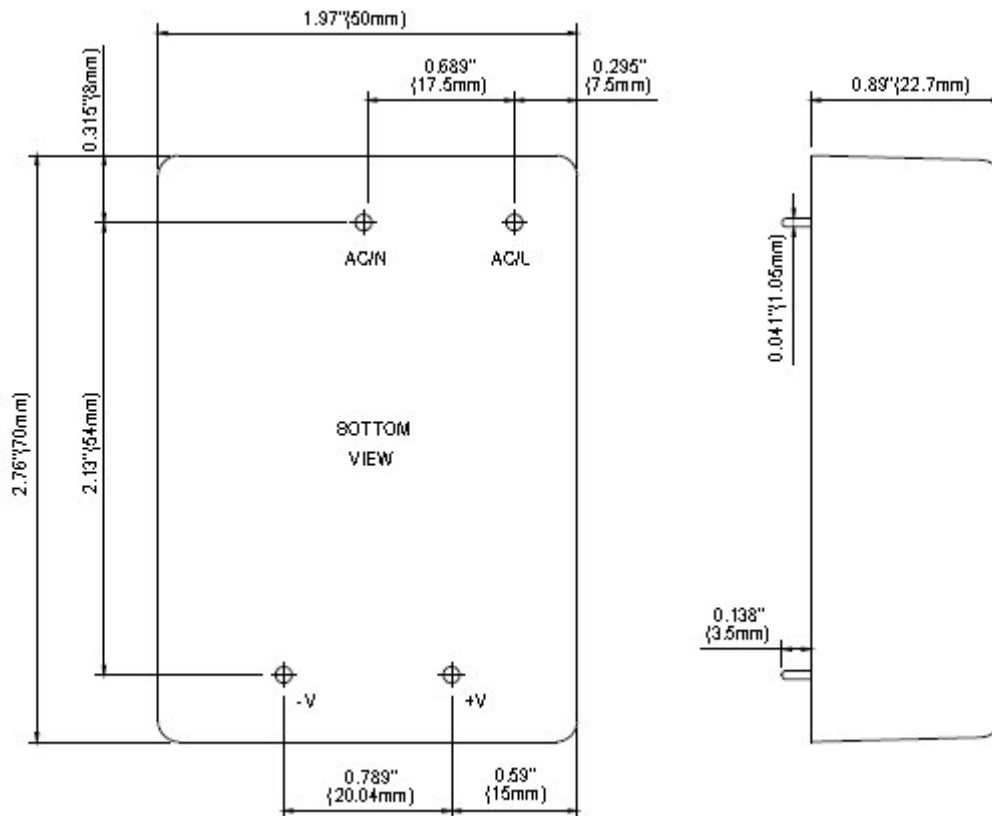
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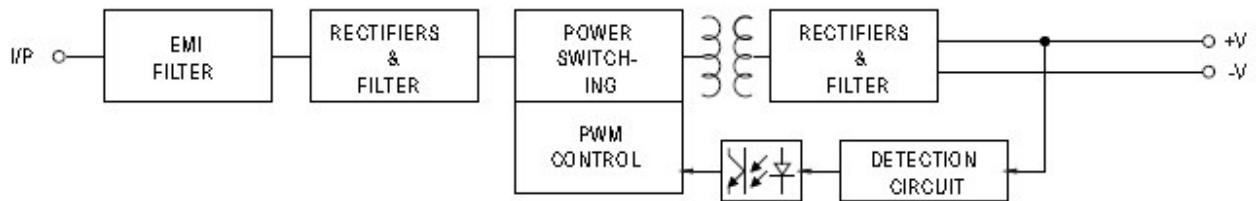


Product No.	PM-10-3.3	PM-10-5	PM-10-12	PM-10-15	PM-10-24	
Safety EMC (Note 4)	Safety Standard					UL60601-1, TUV EN60601-1 approved
	Withstand Voltage					I/P-O/P: 4KVAC
	Isolation Resistance					I/P-O/P: 100M Ohms / 500VDC
	EMI Conduction / Radiation					Compliance to EM55011(CISPR11), EN55022(CISPR22) Class B
	Harmonic Current					Compliance to EN61000-3-2, -3
	EMS Immunity					Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A
Others	MTBF					723.2Khrs min. MIL-HDBK-217F(25°C)
	Dimension					70.00(L)*50.00(W)*22.70(H)mm
	Packing					0.105Kg, 120pcs/13.6Kg/0.97CUFT
Note	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with at 0.1uF & 47uF parallel capacitors. Tolerance: includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that is still meets EMC directives. 					

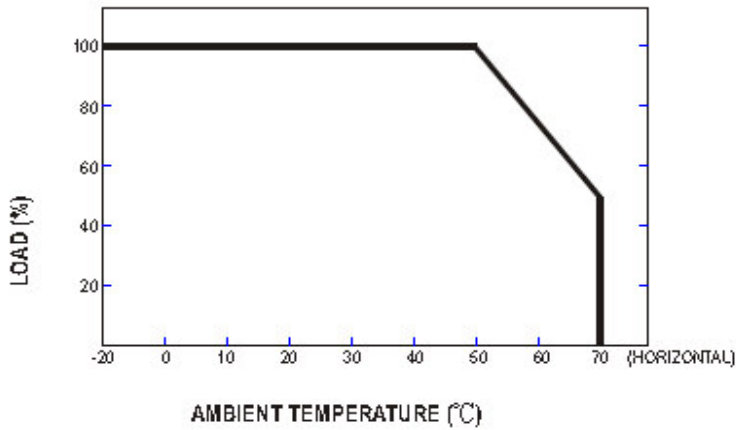
Mechanical: unit: mm



Block Diagram: fosc 67Khz



Derating Curve:



Output Derating vs Input Voltage:

