



- Universal AC input / Full range
- Protections:Short circuit/Over load/Over voltage
- Ultra-miniature size, light weight
- Cooling by free air convection
- Isolation class  $\scriptstyle \rm II$
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- No load power consumption<0.5W
- 100% full load burn-in test
- Fixed switching frequency at 67KHz
- High reliability
- 3 years warranty



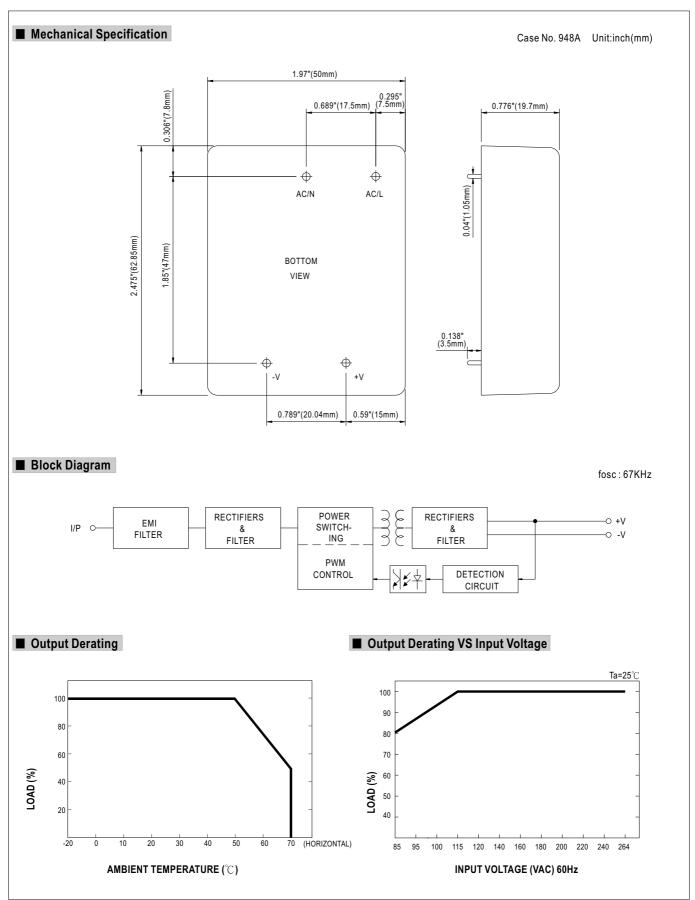






MODEL		PM-05-3.3	PM-05-5	PM-05-12	PM-05-15	PM-05-24		
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V		
	RATED CURRENT	1.25A	1A	0.42A	0.33A	0.23A		
	CURRENT RANGE	0 ~ 1.25A	0 ~ 1A	0 ~ 0.42A	0 ~ 0.33A	0 ~ 0.23A		
	RATED POWER	4.125W	5W	5.04W	4.95W	5.52W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	150mVp-p	150mVp-p	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	±1.5%	±1.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load						
	HOLD TIME (Typ.)	100ms/230VAC 20ms/115VAC at full load						
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 440Hz						
INPUT	EFFICIENCY (Typ.)	67%	71%	73%	76%	76%		
	AC CURRENT (Typ.)	0.12A/115VAC 0.08						
	INRUSH CURRENT (Typ.)	COLD START 25A/115VA	AC 45A/230VAC					
		Above 105% rated output power						
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		3.8 ~ 4.95V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V		
	OVER VOLTAGE	Protection type: Shut off						
	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	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						
	SAFETY STANDARDS	UL60601-1,TUV EN60601-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500	· · · · · · · · · · · · · · · · · · ·					
EMC	EMI CONDUCTION & RADIATION	Compliance to EN55011(CISPR11),EN55022 (CISPR22) Class B						
(Note 4)	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						el, criteria A		
	MTBF	1513.4Khrs min. MIL-HDBK-217F (25℃)						
OTHERS	DIMENSION	62.85*50*19.7mm (L*W*H)						
	PACKING	0.085Kg; 120pcs/11.2Kg/						
NOTE	Ripple & noise are measure     Tolerance : includes set up	ially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  Ired at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  p tolerance, line regulation and load regulation.  Idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets						









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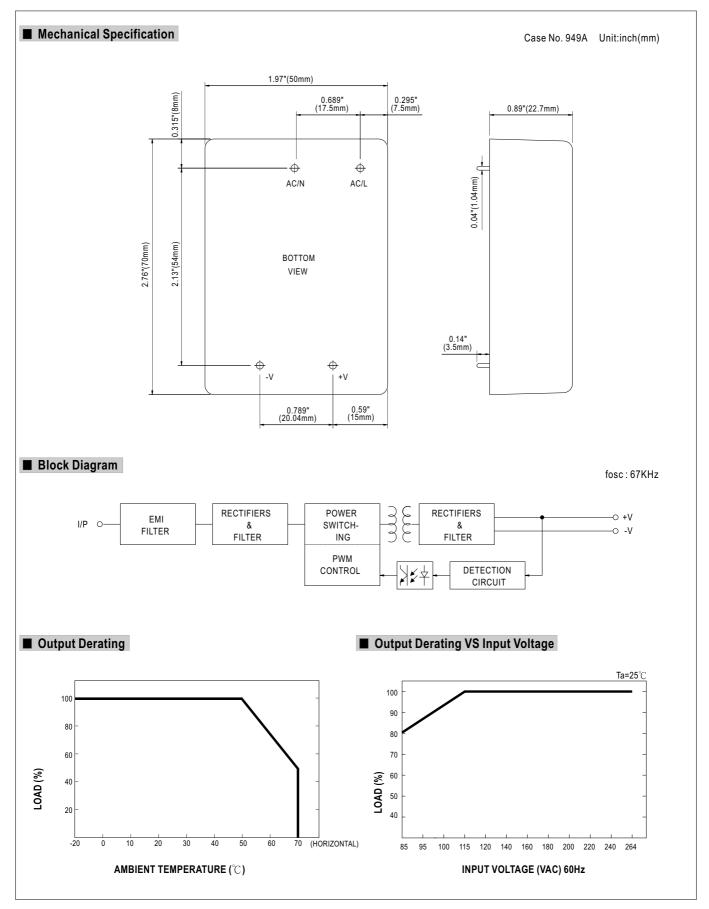






MODEL		PM-10-3.3	PM-10-5	PM-10-12	PM-10-15	PM-10-24			
ОИТРИТ	DC VOLTAGE	3.3V	5V	12V	15V	24V			
	RATED CURRENT	2.5A	2A	0.85A	0.67A	0.42A			
	CURRENT RANGE	0 ~ 2.5A	0 ~ 2A	0 ~ 0.85A	0 ~ 0.67A	0 ~ 0.42A			
	RATED POWER	8.25W	10W	10.2W	10.05W	10.08W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	150mVp-p	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%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1000ms, 20ms/230VAC	1000ms, 20ms/115VA	C at full load					
	HOLD TIME (Typ.)	100ms/230VAC 20ms/115VAC at full load							
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 440Hz							
INPUT	EFFICIENCY (Typ.)	67%	74%	79%	80%	79%			
  -	AC CURRENT (Typ.)	0.25A/115VAC 0.15A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 25A/115VA	COLD START 25A/115VAC 45A/230VAC						
		Above 105% rated output power							
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION		3.8 ~ 4.95V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V			
	OVER VOLTAGE	Protection type: Shut off							
	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	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							
	SAFETY STANDARDS	UL60601-1,TUV EN60601-1 Approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC							
(Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55011(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							
	MTBF	723.2Khrs min. MIL-HDBK-217F (25℃)							
OTHERS	DIMENSION	70*50*22.7mm (L*W*H)							
	PACKING	0.105Kg; 120pcs/13.6Kg/0.97CUFT							
NOTE	<ul><li>2. Ripple &amp; noise are measure</li><li>3. Tolerance : includes set up</li></ul>	neters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  e: includes set up tolerance, line regulation and load regulation.  er supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ectives.							









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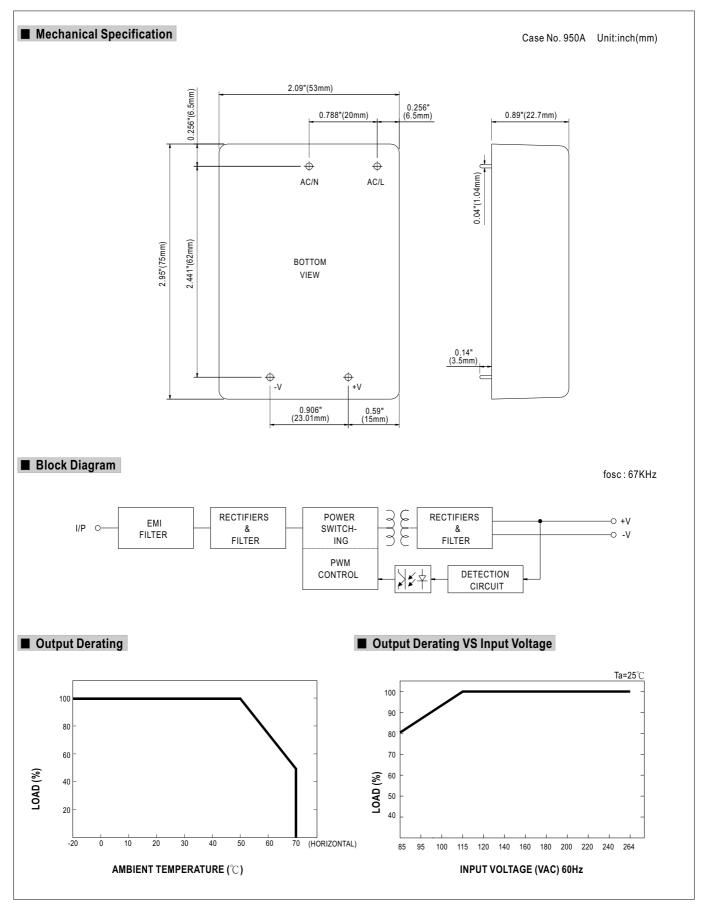






MODEL		PM-15-3.3	PM-15-5	PM-15-12	PM-15-15	PM-15-24			
ОИТРИТ	DC VOLTAGE	3.3V	5V	12V	15V	24V			
	RATED CURRENT	3.5A	3A	1.25A	1A	0.63A			
	CURRENT RANGE	0 ~ 3.5A	0 ~ 3A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A			
	RATED POWER	11.55W	15W	15W	15W	15.12W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	150mVp-p	150mVp-p	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%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1000ms, 20ms/230VAC 1000ms, 20ms/115VAC at full load							
	HOLD TIME (Typ.)	100ms/230VAC 20ms/115VAC at full load							
	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 440Hz							
INPUT	EFFICIENCY (Typ.)	73%	76%	78%	79%	81%			
	AC CURRENT (Typ.)	0.35A/115VAC 0.2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 30A/115VA	COLD START 30A/115VAC 50A/230VAC						
		Above 105% rated output power							
PROTECTION	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION	0VED VOLT4 05	3.8 ~ 4.95V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V			
	OVER VOLTAGE	Protection type : Shut off							
	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	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							
	SAFETY STANDARDS	UL60601-1,TUV EN60601-1 Approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC							
(Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55011(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; ENV5020	94, EN55024, EN60601-1-2	2, EN61204-3 Medical leve	I, criteria A			
	MTBF	499.7Khrs min. MIL-HDBK-217F (25°ℂ)							
OTHERS	DIMENSION	75*53*22.7mm (L*W*H)							
	PACKING	0.14Kg; 120pcs/17.8Kg/0.97CUFT							
NOTE	Ripple & noise are measure     Tolerance : includes set up	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 a 0.1uf & 47uf parallel capacitor.  Tolerance: includes set up tolerance, line regulation and load regulation.  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.							

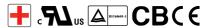








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- No load power consumption<0.75W
- 100% full load burn-in test
- Fixed switching frequency at 90KHz
- High reliability
- 3 years warranty



MODEL		PM-20-3.3	PM-20-5	PM-20-12	PM-20-15	PM-20-24		
ОИТРИТ	DC VOLTAGE	3.3V	5V	12V	15V	24V		
	RATED CURRENT	4.5A	4.4A	1.8A	1.4A	0.92A		
	CURRENT RANGE	0 ~ 4.5A	0 ~ 4.4A	0 ~ 1.8A	0 ~ 1.4A	0~0.92A		
	RATED POWER	14.85W	22W	21.6W	21W	22.08W		
	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	±1.5%	±1.5%	±1.0%	±1.0%	±0.5%		
	SETUP, RISE TIME	500ms, 20ms/230VAC 500ms, 20ms/115VAC at full load						
	HOLD TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load						
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 440Hz						
	EFFICIENCY (Typ.)	71%	75%	81%	83%	84%		
	AC CURRENT (Typ.)	0.6A/115VAC 0.4A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 65A/230VAC						
	LEAKAGE CURRENT	<200uA / 240VAC						
	OVER LOAD	Above 105% rated output power						
PROTECTION		Protection type : Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	01/50 1/01 74 05	3.8 ~ 4.46V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V		
	OVER VOLTAGE	Protection type : Shut off						
	WORKING TEMP.	-20 ~ +60°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 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						
	SAFETY STANDARDS	UL60601-1,TUV EN60601-1 Approved						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:1.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
(Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55011(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							
	MTBF	487.8Khrs min. MIL-H	DBK-217F (25°C)					
OTHERS	DIMENSION	94*56*22.7mm (L*W*H)						
	PACKING	0.18Kg; 90pcs/17.2Kg/0.						
NOTE	<ul><li>2. Ripple &amp; noise are measure</li><li>3. Tolerance : includes set up</li></ul>	cially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  sured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  up tolerance, line regulation and load regulation.  sidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets						

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70 (HORIZONTAL)

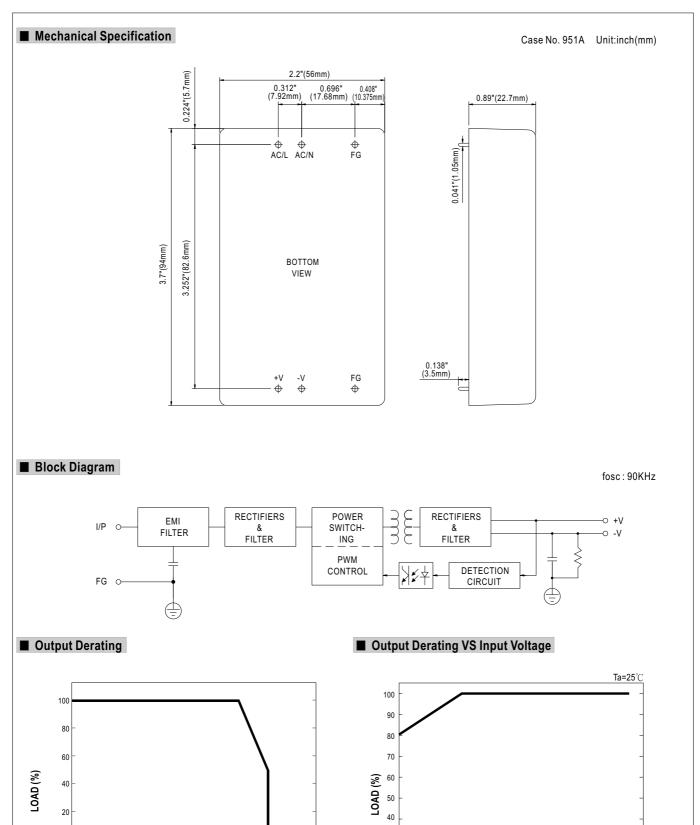
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AMBIENT TEMPERATURE (°C)





115 120 140 160 180 200 220 240 264

INPUT VOLTAGE (VAC) 60Hz

100