



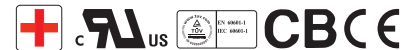
15W Output Switching Power Supply

PM-15 series



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Ultra-miniature size, light weight
- Cooling by free air convection
- Isolation class II
- Medical safety approved (2 x MOPP between primary to secondary)(Note.6)
- No load power consumption<0.5W
- 100% full load burn-in test
- Fixed switching frequency at 67KHz
- High reliability
- 3 years warranty

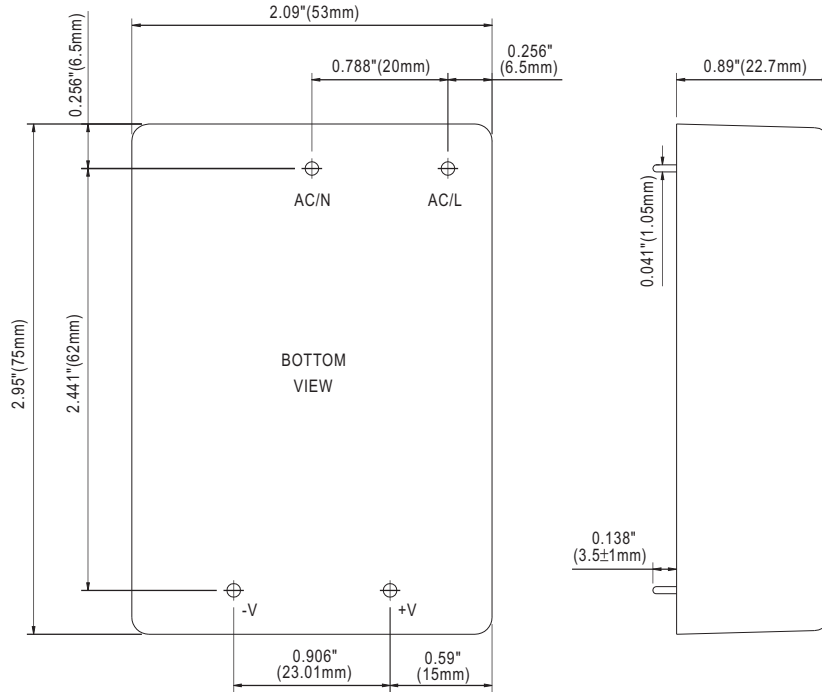


SPECIFICATION

| MODEL | PM-15-3.3 | PM-15-5 | PM-15-12 | PM-15-15 | PM-15-24 | |
|---|---------------------------------------|---|--------------|--------------|----------------|--------------|
| OUTPUT | 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% | ±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.) | 73% | 76% | 78% | 79% | 81% |
| | AC CURRENT (Typ.) | 0.35A/115VAC 0.2A/230VAC | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 30A/115VAC 50A/230VAC | | | | |
| LEAKAGE CURRENT Note.5 | Touch current < 80µA/264VAC | | | | | |
| PROTECTION | OVERLOAD | Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | 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 "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 | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1, UL60950-1 approved | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | |
| OTHERS | EMC EMISSION | Compliance to EN55011(CISPR11),EN55022 (CISPR22) Class B, EN61000-3-2,-3 | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A | | | | |
| | MTBF | 499.7Khrs min. MIL-HDBK-217F (25°C) | | | | |
| NOTE | DIMENSION | 75*53*22.7mm (L*W*H) | | | | |
| | PACKING | 0.14Kg; 120pcs/17.8Kg/0.97CUFT | | | | |
| <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. 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. 5. Touch current was measured from primary input to DC output. 6. Suitable for BF application with appropriate system consideration.</p> | | | | | | |

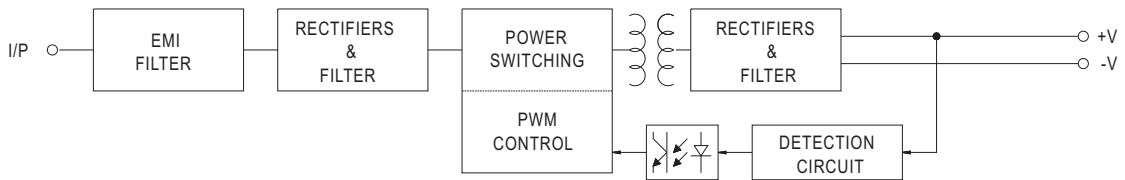
Mechanical Specification

Case No. 950A Unit:inch(mm)

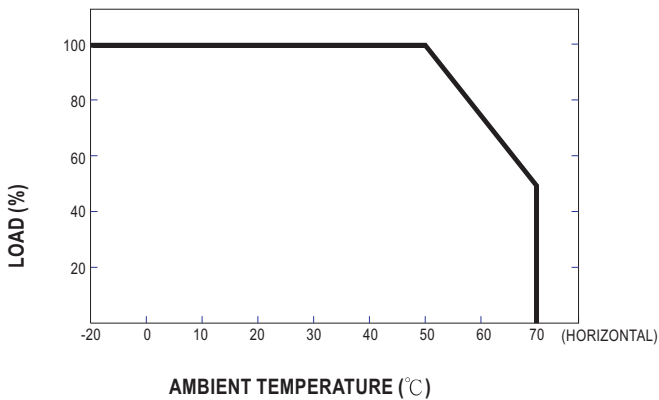


Block Diagram

fosc : 67KHz



Derating Curve



Output Derating VS Input Voltage

