



### ■ 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
- 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



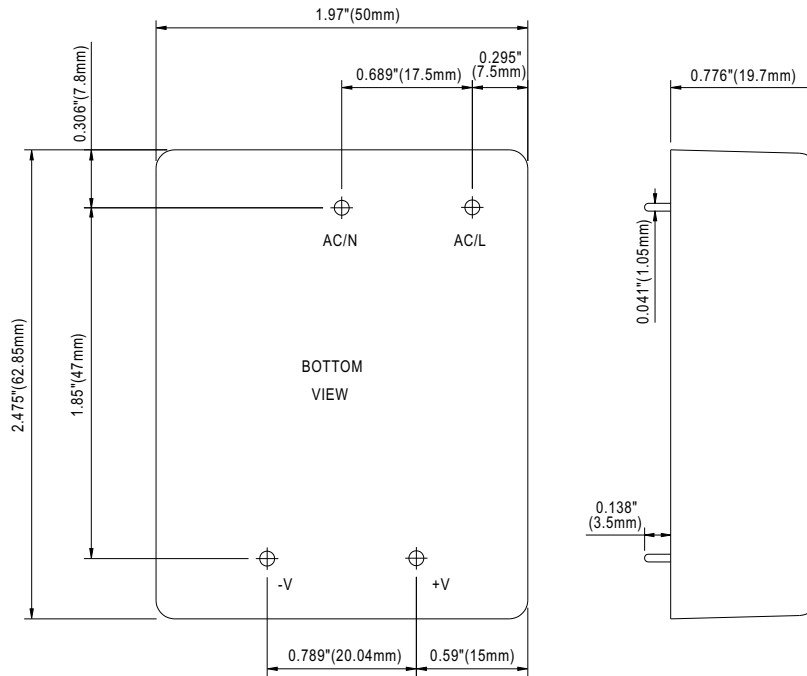
### SPECIFICATION

| 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   | ±1.0%   | ±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.)                                       | 67%   | 71%          | 73%          | 74%            | 76%          |
|                       | AC CURRENT (Typ.)                                       | 0.12A/115VAC    0.08A/230VAC  |              |              |                |              |
| PROTECTION            | INRUSH CURRENT (Typ.)                                   | COLD START 25A/115VAC    45A/230VAC   |              |              |                |              |
|                       | OVERLOAD  | Above 105% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |              |              |                |              |
| ENVIRONMENT           | OVER VOLTAGE  | 3.8 ~ 4.95V   | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V |
|                       | WORKING TEMP.   | -20 ~ +70°C (Refer to output load derating curve)   |              |              |                |              |
| SAFETY & EMC (Note 4) | 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   |              |              |                |              |
| OTHERS                | SAFETY STANDARDS  | UL60601-1, TUV EN60601-1, IEC60601-1 approved   |              |              |                |              |
|                       | WITHSTAND VOLTAGE                                       | I/P-O/P:4KVAC   |              |              |                |              |
|                       | ISOLATION RESISTANCE                                    | I/P-O/P:100M Ohms/500VDC  |              |              |                |              |
|                       | EMI CONDUCTION & RADIATION                              | Compliance to EN55011(CISPR11), EN55022 (CISPR22) Class B   |              |              |                |              |
|                       | HARMONIC CURRENT  | Compliance to EN61000-3-2,-3  |              |              |                |              |
| NOTE                  | 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  | 1513.4Khrs min.    MIL-HDBK-217F (25°C)   |              |              |                |              |
|                       | DIMENSION   | 62.85*50*19.7mm (L*W*H)   |              |              |                |              |
|                       | PACKING   | 0.085Kg; 120pcs/11.2Kg/0.97CUFT   |              |              |                |              |

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.

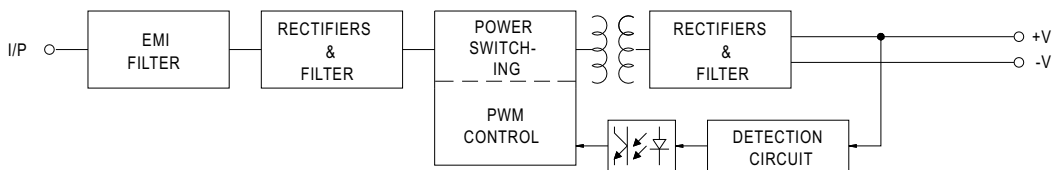
■ Mechanical Specification

Case No. 948A Unit:inch(mm)

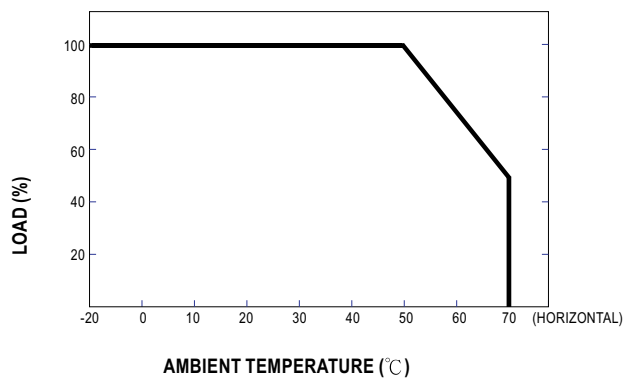


■ Block Diagram

fosc : 67KHz



■ Derating Curve



■ Output Derating VS Input Voltage

