



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





■ 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)
- No load power consumption<0.5W
- 100% full load burn-in test
- Fixed switching frequency at 67KHz
- High reliability
- Suitable for BF application with appropriate system consideration
- 3 years warranty

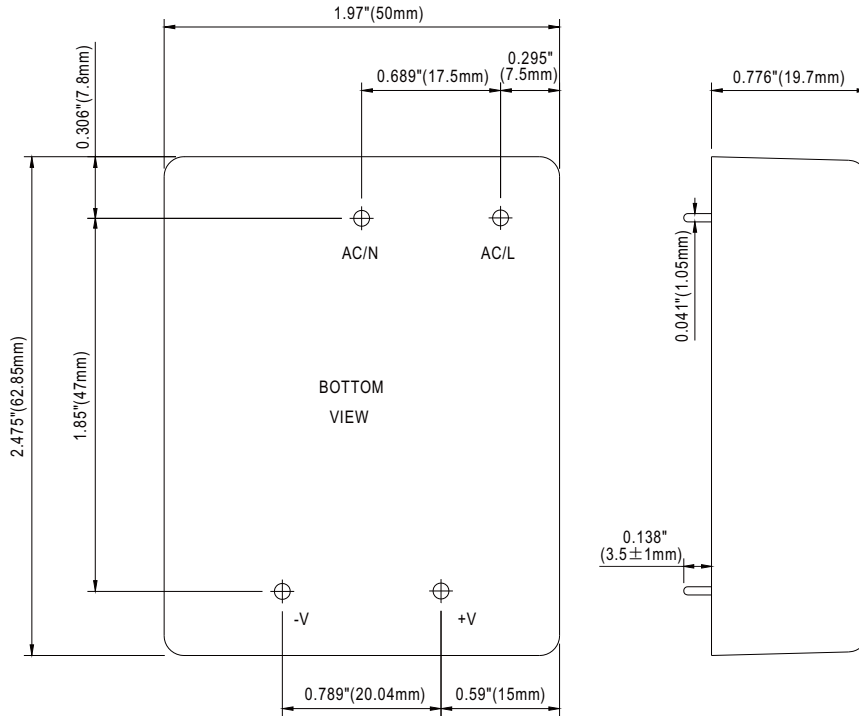


SPECIFICATION

| 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   |              |              |                |              |
|                        | INRUSH CURRENT (Typ.)  | COLD START 25A/115VAC 45A/230VAC  |              |              |                |              |
| LEAKAGE CURRENT Note.5 | Touch current < 8µ A/264VAC  |   |              |              |                |              |
| PROTECTION             | OVERLOAD   | Above 105% rated output power<br>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, EAC TP TC 004 approved  |              |              |                |              |
|                        | ISOLATION LEVEL  | Primary-Secondary: 2xMOPP   |              |              |                |              |
|                        | WITHSTAND VOLTAGE  | I/P-O/P:4KVAC   |              |              |                |              |
|                        | ISOLATION RESISTANCE   | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH  |              |              |                |              |
|                        | EMC EMISSION   | Compliance to EN55011(CISPR11),EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020                                 |              |              |                |              |
| OTHERS                 | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A, EAC TP TC 020       |              |              |                |              |
|                        | 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   |              |              |                |              |
| NOTE                   | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> <li>5. Touch current was measured from primary input to DC output.</li> <li>6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> </ol> |   |              |              |                |              |

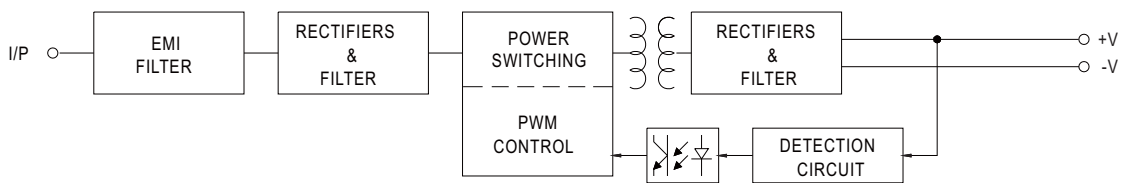
**Mechanical Specification**

Case No. 948A Unit:inch(mm)

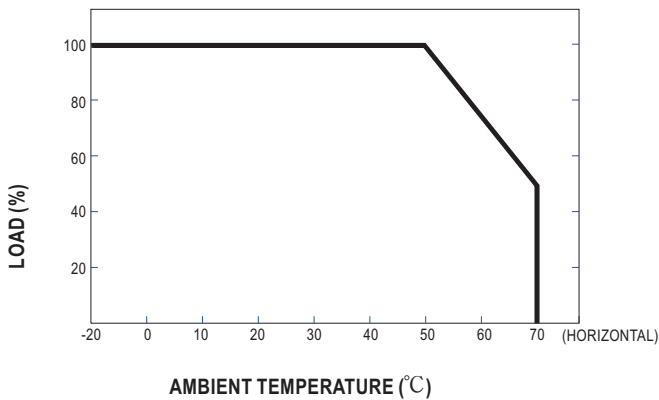


**Block Diagram**

fosc : 67KHz



**Derating Curve**



**Output Derating VS Input Voltage**

