



■ 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-10-5 PM-10-15 PM-10-24 PM-10-3.3 PM-10-12 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 10.2W 10.05W 10.08W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p 150mVp-p 150mVp-p 240mVp-p **OUTPUT** VOLTAGE TOLERANCE Note.3 $\pm 3.0\%$ ±2.0% $\pm 2.0\%$ $\pm 2.0\%$ $\pm 2.0\%$ LINE REGULATION $\pm 1.0\%$ $\pm 1.0\%$ $\pm 0.5\%$ $\pm 0.5\%$ ±0.5% LOAD REGULATION ±1.0% $\pm 1.0\%$ ±1.0% ±1.0% $\pm 0.5\%$ SETUP. RISE TIME 1800ms, 20ms/230VAC 1800ms, 20ms/115VAC at full load 100ms/230VAC 24ms/115VAC at full load HOLD UP TIME (Typ.) 120 ~ 370VDC 85 ~ 264VAC **VOLTAGE RANGE** FREQUENCY RANGE 47 ~ 440Hz 79% EFFICIENCY (Typ.) 79% 66% 74% 78% INPUT AC CURRENT (Typ.) 0.25A/115VAC 0.15A/230VAC INRUSH CURRENT (Typ.) COLD START 25A/115VAC 45A/230VAC LEAKAGE CURRENT Touch current < 80µ A/264VAC Above 105% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** 5.75 ~ 6.75V 13.8 ~ 16.2V 17.25 ~ 20.25V 27.6 ~ 32.4V **OVER VOLTAGE** Protection type: Shut off o/p voltage, clamping by zener diode WORKING TEMP. -20 ~ +70°C (Refer to "Derating Curve") 20 ~ 90% RH non-condensing **WORKING HUMIDITY** -40 ~ +85°C, 10 ~ 95% RH **ENVIRONMENT** STORAGE TEMP., HUMIDITY 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 ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1, EAC TP TC 004 approved ISOLATION LEVEL Primary-Secondary: 2xMOPP SAFETY & WITHSTAND VOLTAGE I/P-O/P:4KVAC ISOLATION RESISTANCE **FMC** I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH (Note 4) Compliance to EN55011(CISPR11), EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020 **EMC EMISSION 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 723.2Khrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 70*50*22.7mm (L*W*H) 0.105Kg; 120pcs/13.6Kg/0.97CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. NOTE 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

- 5. Touch current was measured from primary input to DC output.
- 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).



