



Features:

- Universal AC input / Full range
- Low leakage current \leq 0.3mA
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 3 years warranty



SPECIFICATION

| MODEL | | MPD-45A | | MPD-45B | | |
|-----------------------------|---|--|------------|----------------|------------|--|
| | OUTPUT NUMBER | CH1 | CH2 | CH1 | CH2 | |
| OUTPUT | DC VOLTAGE | 5V | 12V | 5V | 24V | |
| | RATED CURRENT | 3.2A | 2A | 3.2A | 1.2A | |
| | CURRENT RANGE | 0.4 ~ 5A | 0.2 ~ 2.5A | 0.4 ~ 5A | 0.2 ~ 1.8A | |
| | RATED POWER | 40W | | 44.8W | | |
| | OUTPUT POWER (max.) | 52W with 18CFM min. Forced air convection | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 60mVp-p | 120mVp-p | 60mVp-p | 150mVp-p | |
| | VOLTAGE ADJ. RANGE | CH1:4.5 ~ 5.5V | | CH1:4.5 ~ 5.5V | | |
| | VOLTAGE TOLERANCE Note.3 | ±4.0% | ±7.0% | ±4.0% | ±7.0% | |
| | LINE REGULATION | ±1.0% | ±2.0% | ±1.0% | ±2.0% | |
| | LOAD REGULATION | ±3.0% | ±4.0% | ±3.0% | ±4.0% | |
| | SETUP, RISE TIME | 800ms, 20ms/230VAC 800ms, 20ms/115VAC at full load | | | | |
| | HOLD UP TIME (Typ.) | 50ms/230VAC 16ms/115VAC at full load | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC 127 ~ 370VDC | | | | |
| | FREQUENCY RANGE | 47 ~ 440Hz | | | | |
| | EFFICIENCY(Typ.) | 76% | | 78% | | |
| | AC CURRENT (Typ.) | 1.2A/115VAC 0.7A/230VAC | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 15A/115VAC 30A/230VAC | | | | |
| | LEAKAGE CURRENT | <0.3mA/264VAC | | | | |
| PROTECTION | OVERLOAD | 53 ~ 75W rated output power | | | | |
| | | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V on CH1 | | | | |
| | | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +60°C (Refer to output load derating curve) | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH | | | | |
| | TEMP. COEFFICIENT | ±0.04%/°C (0 ~ 50°C) on +5V output | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL2601-1, TUV EN60601-1, IEC60601-1 approved | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG:100M Ohms/500VDC | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55011 (CISPR11) Class B | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN60601-1-2, medical level, criteria A | | | | |
| OTHERS | MTBF | 291.3Khrs min. MIL-HDBK-217F (25°C) | | | | |
| | DIMENSION | 127*76*28mm (L*W*H) | | | | |
| | PACKING | 0.2Kg; 72pcs/17.4Kg/1.35CUF1 | | | | |
| NOTE | 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 0.1 uf & 47 uf 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. Mounting holes M1 and M2 should be grounded for EMI purposes. | | | | | |



