

■ Features :

- Universal AC input / Full range
- Low leakage current $\leq 0.3\text{mA}$
- 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

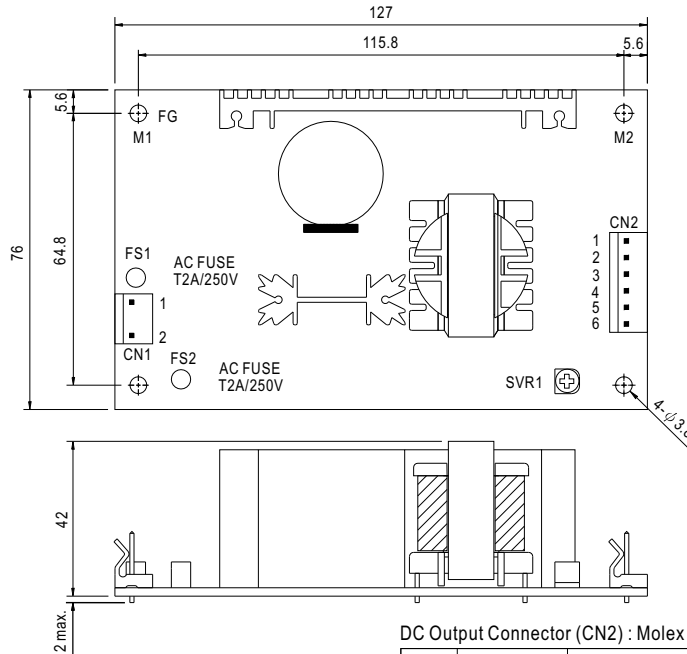


SPECIFICATION

| MODEL | MPD-65A | | MPD-65B | | |
|-----------------------|--|--|-------------|----------------|-------------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH1 | CH2 |
| | DC VOLTAGE | 5V | 12V | 5V | 24V |
| | RATED CURRENT | 5.5A | 2.8A | 3.5A | 2A |
| | CURRENT RANGE | 0.4 ~ 7A | 0.2 ~ 3.2A | 0.4 ~ 6A | 0.2 ~ 2.6A |
| | RATED POWER | 61.1W | | 65.5W | |
| | OUTPUT POWER (max.) | 72W with 18CFM min. Forced air convection | | | |
| | RIPPLE & NOISE (max.) Note.2 | 60mVp-p | 150mVp-p | 60mVp-p | 150mVp-p |
| | VOLTAGE ADJ. RANGE | CH1:4.5 ~ 5.5V | | CH1:4.5 ~ 5.5V | |
| | VOLTAGE TOLERANCE Note.3 | $\pm 4.0\%$ | $\pm 7.0\%$ | $\pm 4.0\%$ | $\pm 7.0\%$ |
| | LINE REGULATION | $\pm 1.0\%$ | $\pm 2.0\%$ | $\pm 1.0\%$ | $\pm 2.0\%$ |
| | LOAD REGULATION | $\pm 3.0\%$ | $\pm 4.0\%$ | $\pm 3.0\%$ | $\pm 4.0\%$ |
| | SETUP, RISE TIME | 800ms, 20ms/230VAC 800ms, 20ms/115VAC at full load | | | |
| HOLD UP TIME (Typ.) | 80ms/230VAC 12ms/115VAC at full load | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC 127 ~ 370VDC | | | |
| | FREQUENCY RANGE | 47 ~ 440Hz | | | |
| | EFFICIENCY (Typ.) | 75% | | 78% | |
| | AC CURRENT (Typ.) | 1.6A/115VAC 1A/230VAC | | | |
| | INRUSH CURRENT (Typ.) | COLD START 20A/115VAC 40A/230VAC | | | |
| LEAKAGE CURRENT | <0.3mA/ 264VAC | | | | |
| PROTECTION | OVERLOAD | 73 ~ 105W rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75VDC on CH1 Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +55°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 | $\pm 0.04\%/^{\circ}\text{C}$ (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*42mm (L*W*H) | | | |
| | PACKING | 0.25Kg; 54pcs/16Kg/1.35CUFT | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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.</p> <p>5. Mounting holes M1 and M2 should be grounded for EMI purposes.</p> | | | | |

Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 5277-02 or equivalent

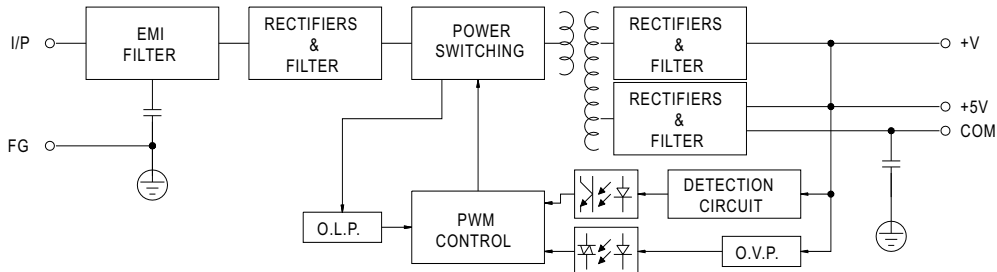
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | AC/N | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2 | AC/L | | |

DC Output Connector (CN2) : Molex 5273-06 or equivalent

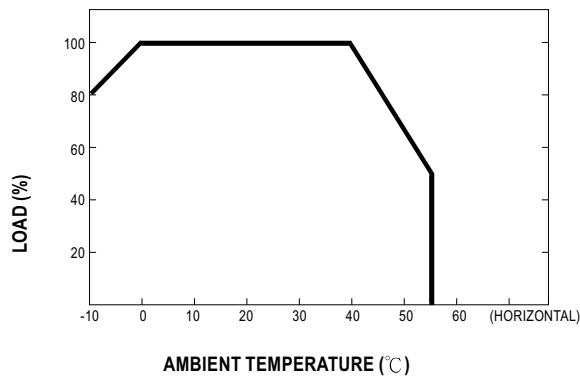
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | +V | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2,3 | +5V | | |
| 4,5 | COM | | |
| 6 | NC | | |

Block Diagram

fosc : 45KHz



Derating Curve



Static Characteristics

