

■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- With power good signal output(Optional)
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 2 years warranty

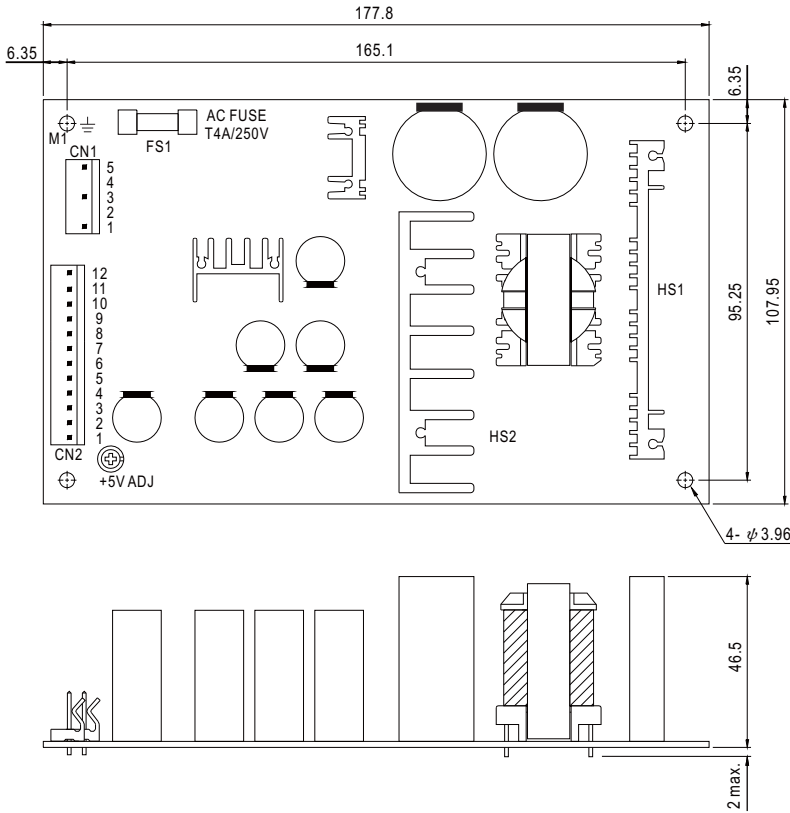


SPECIFICATION

| MODEL | | PD-110A | | PD-110B | |
|-----------------------|--|--|------------|-----------------|------------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH1 | CH2 |
| | DC VOLTAGE | 5V | 12V | 5V | 24V |
| | RATED CURRENT | 5A | 6.5A | 5A | 3.5A |
| | CURRENT RANGE | 0.5 ~ 5A | 0.5 ~ 6.5A | 0.5 ~ 5A | 0.5 ~ 3.5A |
| | RATED POWER | 103W | | 109W | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 150mVp-p | 100mVp-p | 200mVp-p |
| | VOLTAGE ADJ. RANGE | CH1:4.75 ~ 5.5V | | CH1:4.75 ~ 5.5V | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±6.0% | ±2.0% | ±6.0% |
| | LINE REGULATION | ±1.0% | ±2.0% | ±1.0% | ±2.0% |
| | LOAD REGULATION | ±1.0% | ±5.0% | ±1.0% | ±5.0% |
| SETUP, RISE TIME | 1200ms, 50ms at full load | | | | |
| HOLD UP TIME (Typ.) | 80ms at full load | | | | |
| INPUT | VOLTAGE RANGE | 100 ~ 264VAC 141 ~ 370VDC (90 ~ 100VAC 90% load max.) | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | |
| | EFFICIENCY(Typ.) | 75% | | 78% | |
| | AC CURRENT (Typ.) | 3A/115VAC 1.5A/230VAC | | | |
| | INRUSH CURRENT (Typ.) | COLD START 45A | | | |
| | LEAKAGE CURRENT | <1mA/240VAC | | | |
| PROTECTION | OVERLOAD | 105% ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| | OVER VOLTAGE | CH1: 5.75 ~ 6.75VDC Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +50°C, 60 °C with cooling fan (Refer to "Derating Curve") | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +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 | UL60950-1, TUV EN60950-1 approved | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3 | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,11, light industry level, criteria A | | | |
| OTHERS | MTBF | 323K hrs min. MIL-HDBK-217F (25°C) | | | |
| | DIMENSION | 177.8*107.95*46.5mm (L*W*H) | | | |
| | PACKING | 0.51Kg; 24pcs/13.1Kg/1.19CUFT | | | |
| 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. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</p> <p>5. Heat Sink HS1,HS2 can not be shorted.</p> | | | | |

Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 5273-05 or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | FG \perp | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2,4 | No Pin | | |
| 3 | AC/N | | |
| 5 | AC/L | | |

DC Output Connector (CN2) : Molex 5273-12 or equivalent

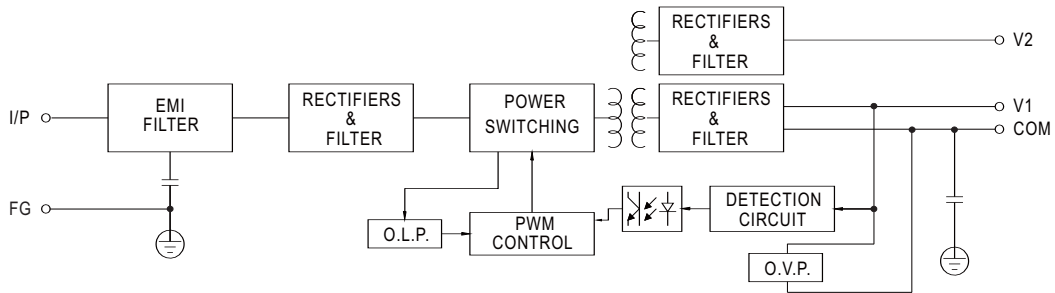
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|--------------|--------------------------|--------------------------|
| 1,2,3 | V1 | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 4,5,6,7 | COM | | |
| 8,9,10 | V2 | | |
| 11,12 | V3(Optional) | | |

| MODEL | PD-110A | PD-110B |
|----------------|---------|---------|
| Pin No. 1,2,3 | +5V | +5V |
| Pin No. 8,9,10 | +12V | +24V |

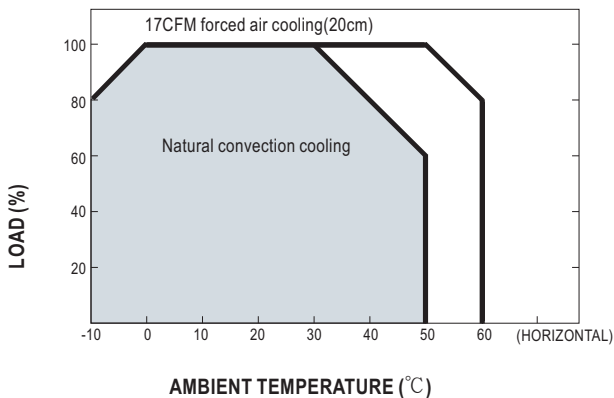
\perp : Grounding Required

- ⚠ 1.HS1,HS2 cannot be shorted
- 2.M1 is safety ground

Block Diagram



Derating Curve



Static Characteristics (A)

