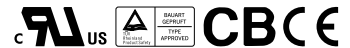


### ■ Features :

- 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

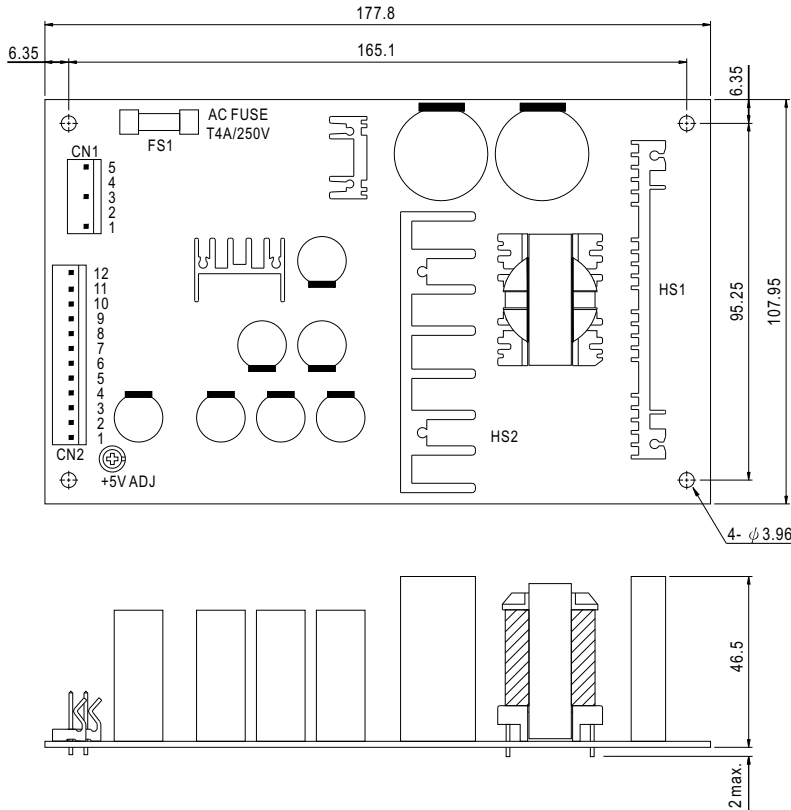


### SPECIFICATION

| 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<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |            |                 |            |
|                       | OVER VOLTAGE  | CH1: 5.75 ~ 6.75VDC<br>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:1.5KVAC    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 EN55022 (CISPR22) 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 &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br/>(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</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       |                          |                          |

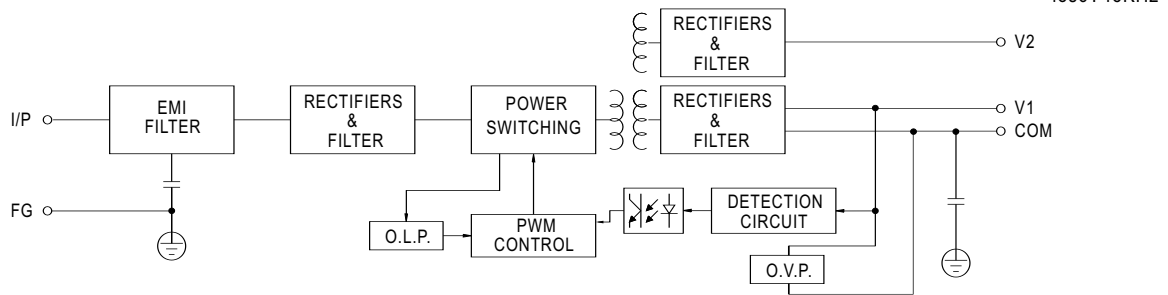
DC Output Connector (CN2) : Molex 5273-12 or equivalent

| 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    |

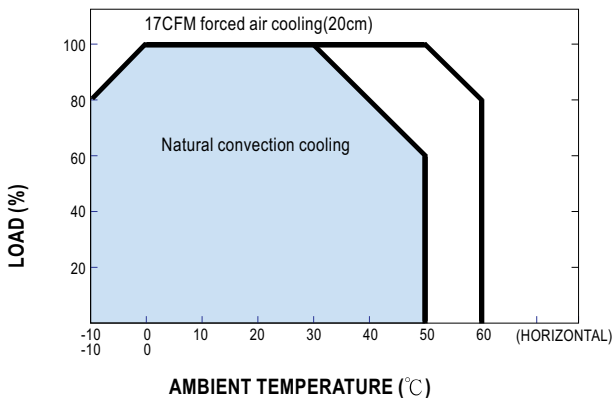
⚠ HS1,HS2 can not be shorted

**Block Diagram**



fosc : 45KHz

**Derating Curve**



**Static Characteristics (A)**

