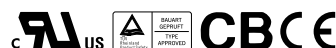




## Features :

- Universal AC input / Full range
- Low leakage current<0.5mA
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 65KHz

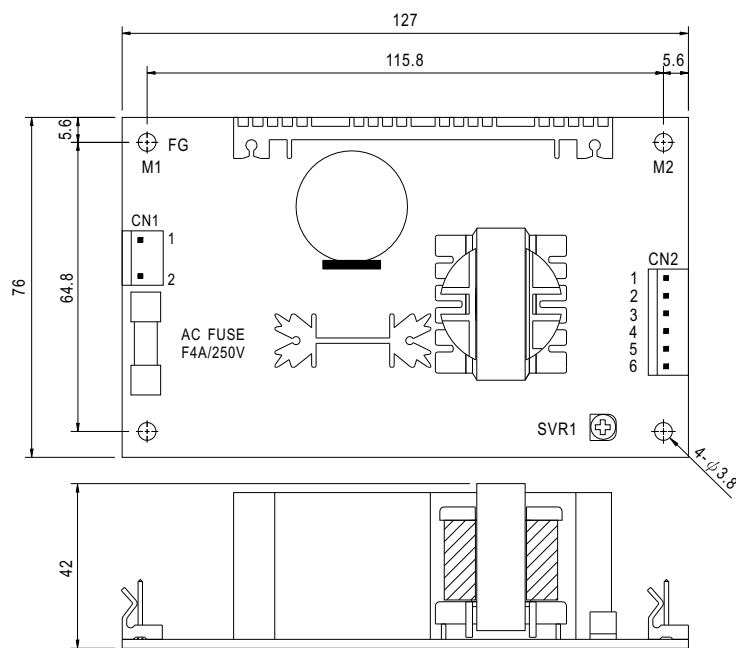


## SPECIFICATION

| MODEL                    |  | PD-65A  |            | PD-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.)  | Rated output power for convection; 72W with 18CFM min. Forced air   |            |                 |            |
|                          | RIPPLE & NOISE (max.) Note.2   | 50mVp-p   | 120mVp-p   | 50mVp-p         | 150mVp-p   |
|                          | VOLTAGE ADJ. RANGE   | CH1:4.75 ~ 5.5V   |            | CH1:4.75 ~ 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 at full load  |            |                 |            |
| HOLD UP TIME (Typ.)      | 60ms at full load  |   |            |                 |            |
| INPUT                    | VOLTAGE RANGE  | 90 ~ 264VAC      127 ~370VDC  |            |                 |            |
|                          | FREQUENCY RANGE  | 47 ~ 440Hz  |            |                 |            |
|                          | EFFICIENCY(Typ.)   | 78%   |            | 81%             |            |
|                          | AC CURRENT (Typ.)  | 1.5A/115VAC      0.9A/230VAC  |            |                 |            |
|                          | INRUSH CURRENT (Typ.)  | COLD START 20A/115VAC      40A/230VAC   |            |                 |            |
|                          | LEAKAGE CURRENT  | <0.75mA   |            |                 |            |
| PROTECTION               | OVERLOAD   | 73 ~ 105W rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed. |            |                 |            |
|                          | OVER VOLTAGE   | CH1: 5.75 ~ 6.75VDC on CH1<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed.   |            |                 |            |
|                          |  |   |            |                 |            |
| ENVIRONMENT              | WORKING TEMP.  | -10 ~ +60℃ (Refer to output load derating curve)  |            |                 |            |
|                          | WORKING HUMIDITY   | 20 ~ 90% RH non-condensing  |            |                 |            |
|                          | STORAGE TEMP., HUMIDITY  | -20 ~ +85℃, 10 ~ 95% RH   |            |                 |            |
|                          | TEMP. COEFFICIENT  | ±0.04%/℃ (0 ~ 50℃) on +5V output  |            |                 |            |
|                          | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes  |            |                 |            |
| SAFETY & EMC<br>(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  |            |                 |            |
|                          | EMI CONDUCTION & RADIATION   | Compliance to EN55022 (CISPR22) Class B   |            |                 |            |
|                          | HARMONIC CURRENT   | Compliance to EN61000-3-2,-3  |            |                 |            |
|                          | EMS IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A                             |            |                 |            |
| OTHERS                   | MTBF   | 288.1K hrs min.      MIL-HDBK-217F (25℃)  |            |                 |            |
|                          | DIMENSION  | 127*76*42mm (L*W*H)   |            |                 |            |
|                          | PACKING  | 0.24Kg; 54pcs/15Kg/1.35CUFT   |            |                 |            |
| NOTE                     | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>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.<br>5. Mounting holes M1 and M2 should be grounded for EMI purposes. |   |            |                 |            |

## Mechanical Specification

Unit:mm



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

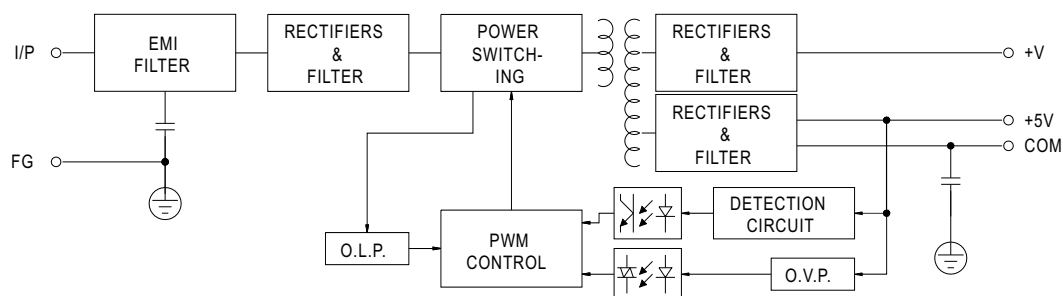
| Pin No. | Assignment | Mating Housing           | Terminal                 |
|---------|------------|--------------------------|--------------------------|
| 1       | AC/N       | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2       | AC/L       |                          |            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

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

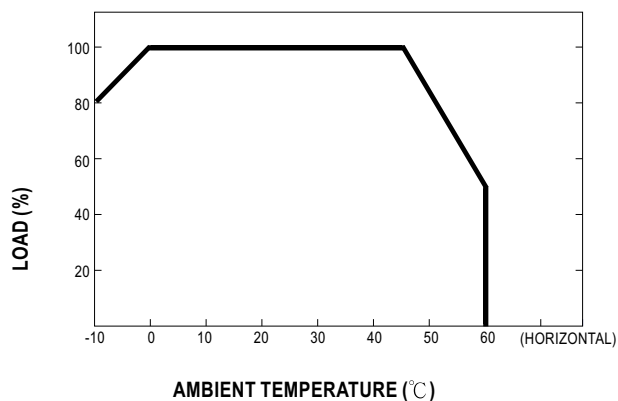
| Pin No. | Assignment | Mating Housing           | Terminal                 |
|---------|------------|--------------------------|--------------------------|
| 1       | +V         | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2,3     | +5V        |                          |            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

## Block Diagram

fosc : 65KHz



## Derating Curve



## Output Derating VS Input Voltage

