



■ 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
- 2 years warranty

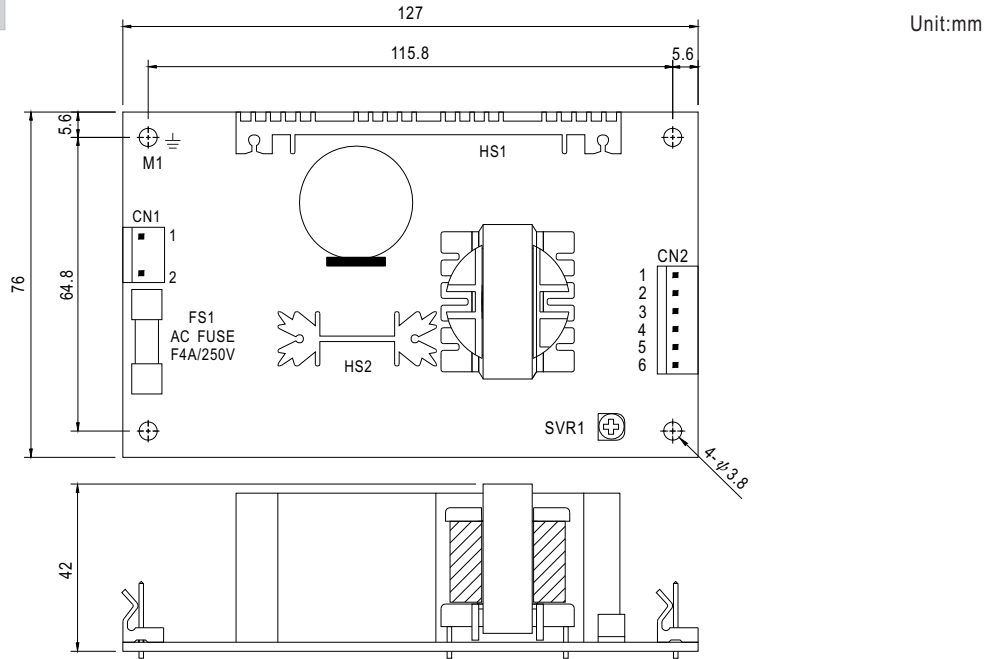


**SPECIFICATION**

| 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°C (Refer to "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  | UL62368-1, TUV EN62368-1, EAC TP TC 004 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, EAC TP TC 020  |              |                 |            |
|                       | EMC IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020                        |              |                 |            |
| OTHERS                | MTBF  | 414.8K hrs min. MIL-HDBK-217F (25°C)  |              |                 |            |
|                       | DIMENSION   | 127*76*42mm (L*W*H)   |              |                 |            |
|                       | PACKING   | 0.24Kg; 54pcs/15Kg/1.35CUFT   |              |                 |            |
| NOTE                  | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br/>                 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.<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. 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."<br/>                 5. Mounting holes M1 and M2 should be grounded for EMI purposes.<br/>                 6. Heat Sink HS1,HS2 can not be shorted.<br/>                 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> |   |              |                 |            |

File Name:PD-65-SPEC 2020-02-21

**Mechanical Specification**



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

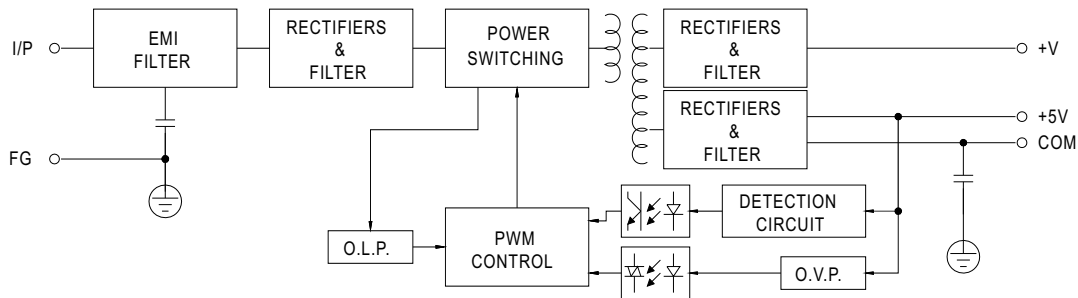
| Pin No. | Assignment | Mating Housing           | Terminal                 |
|---------|------------|--------------------------|--------------------------|
| 1       | +V         | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2,3     | +5V        |                          |            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

⊥ : Grounding Required

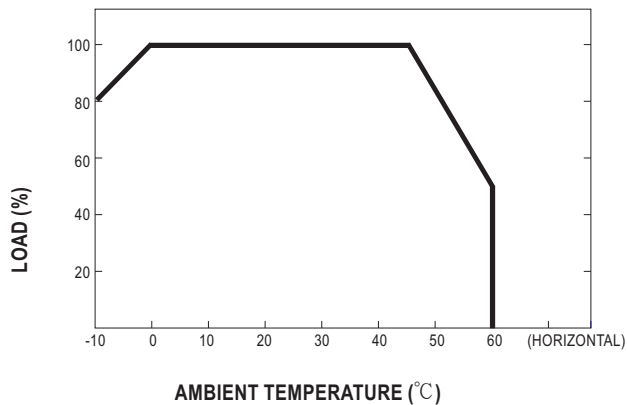
- ⚠ 1.HS1,HS2 cannot be shorted
- 2.M1 is safety ground

fosc : 65KHz

**Block Diagram**



**Derating Curve**



**Output Derating VS Input Voltage**

