



#### ■ 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

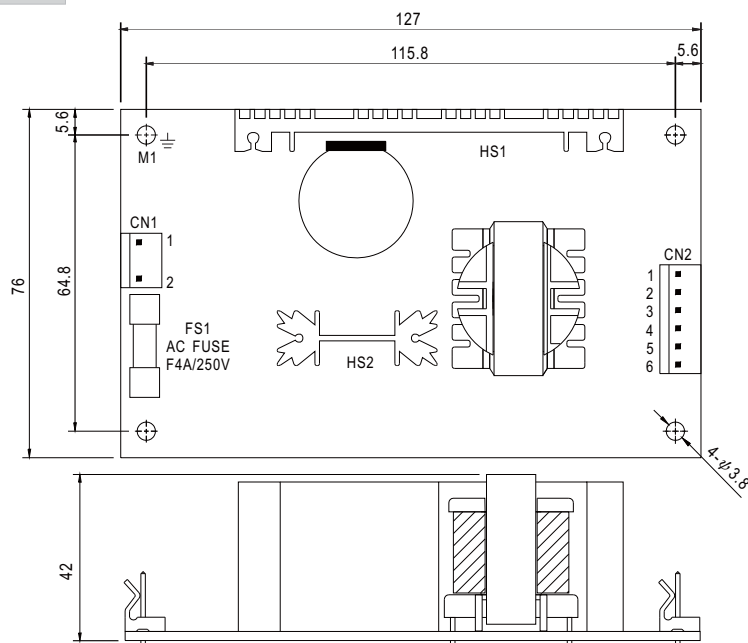


#### SPECIFICATION

| MODEL                    |   | PT-65A  |            |          | PT-65B      |            |          | PT-65C   |            |          | PT-65D   |                                 |            |
|--------------------------|---|---|------------|----------|-------------|------------|----------|----------|------------|----------|----------|---------------------------------|------------|
| OUTPUT                   | OUTPUT NUMBER   | CH1   | CH2        | CH3      | CH1         | CH2        | CH3      | CH1      | CH2        | CH3      | CH1      | CH2                             | CH3        |
|                          | DC VOLTAGE  | 5V  | 12V        | -5V      | 5V          | 12V        | -12V     | 5V       | 15V        | -15V     | 5V       | 12V                             | 24V        |
|                          | RATED CURRENT   | 5.5A  | 2.5A       | 0.5A     | 5.5A        | 2.5A       | 0.5A     | 5.5A     | 2A         | 0.5A     | 4A       | 2A                              | 1A         |
|                          | CURRENT RANGE   | 0.4 ~ 7A  | 0.2 ~ 3.2A | 0 ~ 0.7A | 0.4 ~ 7A    | 0.2 ~ 3.2A | 0 ~ 0.7A | 0.4 ~ 7A | 0.2 ~ 2.6A | 0 ~ 0.7A | 0.5 ~ 5A | 0.2 ~ 4A                        | 0.2 ~ 1.3A |
|                          | RATED POWER   | 60W   |            |          | 63.5W       |            |          | 65W      |            |          | 68W      |                                 |            |
|                          | 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  | 50mVp-p     | 120mVp-p   | 100mVp-p | 50mVp-p  | 120mVp-p   | 100mVp-p | 50mVp-p  | 100mVp-p                        | 200mVp-p   |
|                          | VOLTAGE ADJ. RANGE  | CH1:4.75 ~ 5.5V   |            |          |             |            |          |          |            |          |          |                                 |            |
|                          | VOLTAGE TOLERANCE Note.3  | ±4.0%   | ±7.0%      | ±5.0%    | ±4.0%       | ±7.0%      | ±5.0%    | ±4.0%    | ±7.0%      | ±5.0%    | ±4.0%    | ±6.0%                           | ±6.0%      |
|                          | LINE REGULATION   | ±1.0%   | ±2.0%      | ±1.0%    | ±1.0%       | ±2.0%      | ±1.0%    | ±1.0%    | ±2.0%      | ±1.0%    | ±1.0%    | ±2.0%                           | ±3.0%      |
| LOAD REGULATION          | ±3.0%   | ±4.0%   | ±1.0%      | ±3.0%    | ±4.0%       | ±1.0%      | ±3.0%    | ±4.0%    | ±1.0%      | ±2.0%    | ±5.0%    | ±5.0%                           |            |
| 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.)  | 76%   |            |          | 77%         |            |          | 77%      |            |          | 79%      |                                 |            |
|                          | 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 ~ 95W rated output power   |            |          |             |            |          |          |            |          |          | 74.8 ~ 98.6W 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 ~ +60℃ (Refer to "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:2KVAC O/P-FG:0.5KVAC 1min.   |            |          |             |            |          |          |            |          |          |                                 |            |
|                          | ISOLATION RESISTANCE  | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH                                |            |          |             |            |          |          |            |          |          |                                 |            |
|                          | EMC EMISSION  | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3                                 |            |          |             |            |          |          |            |          |          |                                 |            |
|                          | EMC IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A       |            |          |             |            |          |          |            |          |          |                                 |            |
| OTHERS                   | MTBF  | 277.2K hrs min. MIL-HDBK-217F (25℃)   |            |          |             |            |          |          |            |          |          |                                 |            |
|                          | DIMENSION   | 127*76*42mm (L*W*H)   |            |          |             |            |          |          |            |          |          |                                 |            |
|                          | PACKING   | 0.25Kg; 54pcs/15.9Kg/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. 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> )<br>5. Mounting holes M1 and M2 should be grounded for EMI purposes.<br>6. Heat Sink HS1.HS2 can not be shorted. |   |            |          |             |            |          |          |            |          |          |                                 |            |

## 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       |                          |                          |

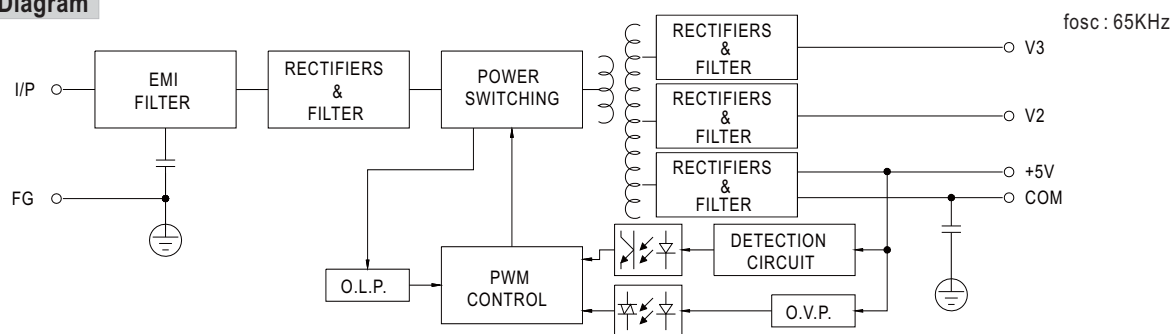
⏏ : Grounding Required

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

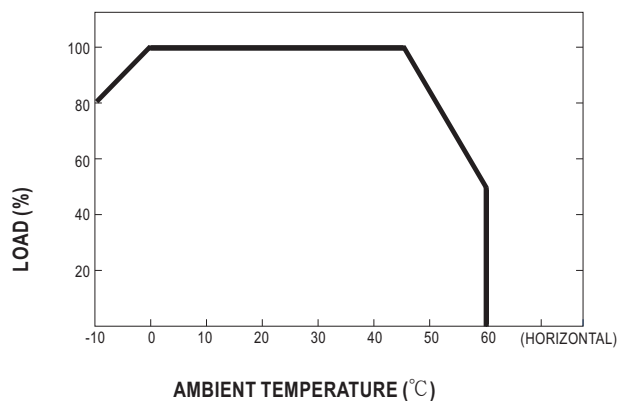
| Pin No. | Assignment | Mating Housing           | Terminal                 |
|---------|------------|--------------------------|--------------------------|
| 1       | V2         | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2,3     | +5V        |                          |                          |
| 4,5     | COM        |                          |                          |
| 6       | V3         |                          |                          |

※PIN2: +5V PIN3,4,5: COM only for PT-65D

## Block Diagram



## Derating Curve



## Output Derating VS Input Voltage

