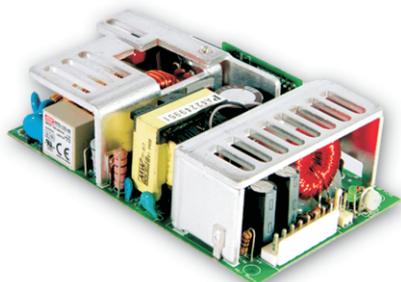




## 125W Triple Output with PFC Function

## PPT-125 series



### ■ Features :

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage
- PWM control and regulated
- High power density 6.117W/inch<sup>3</sup>
- LED indicator for power on
- 100% full load burn-in test
- 125W with 18CFM FAN
- 5"x3" compact size
- 3 years warranty

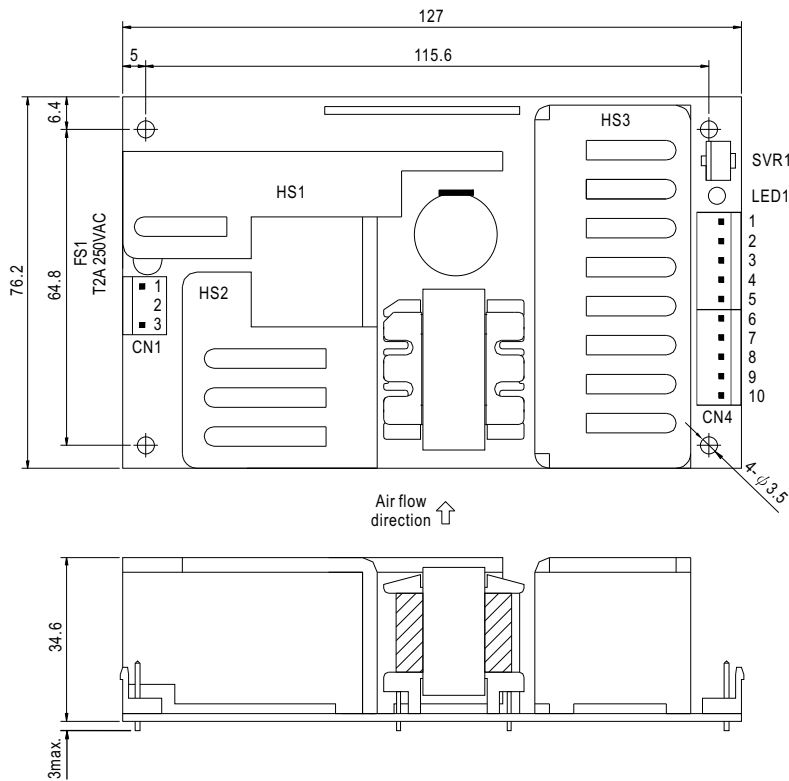


### SPECIFICATION

| MODEL                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PPT-125A                                                                                                                               |           |              | PPT-125B                         |             |              | PPT-125C         |              |              | PPT-125D         |              |              |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|----------------------------------|-------------|--------------|------------------|--------------|--------------|------------------|--------------|--------------|
| OUTPUT                   | OUTPUT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CH1                                                                                                                                    | CH2       | CH3          | CH1                              | CH2         | CH3          | CH1              | CH2          | CH3          | CH1              | CH2          | CH3          |
|                          | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.3V                                                                                                                                   | 5V        | 12V          | 5V                               | 12V         | -12V         | 5V               | 15V          | -15V         | 5V               | 24V          | 12V          |
|                          | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10A                                                                                                                                    | 8A        | 0.5A         | 11.5A                            | 3A          | 0.5A         | 11A              | 2.5A         | 0.5A         | 7A               | 2.5A         | 0.5A         |
|                          | CURRENT RANGE (convection)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 ~ 10A                                                                                                                                | 0.8 ~ 8A  | 0.05 ~ 0.5A  | 1 ~ 11.5A                        | 0.3 ~ 3A    | 0.05 ~ 0.5A  | 1 ~ 11A          | 0.25 ~ 2.5A  | 0.05 ~ 0.5A  | 1 ~ 7A           | 0.25 ~ 2.5A  | 0.05 ~ 0.5A  |
|                          | CURRENT RANGE (18CFM FAN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 ~ 12.5A                                                                                                                              | 0.8 ~ 10A | 0.05 ~ 0.63A | 1 ~ 14.38A                       | 0.3 ~ 3.75A | 0.05 ~ 0.63A | 1 ~ 13.75A       | 0.25 ~ 3.13A | 0.05 ~ 0.63A | 1 ~ 8.75A        | 0.25 ~ 3.13A | 0.05 ~ 0.63A |
|                          | RATED POWER (convection)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 79W                                                                                                                                    |           |              | 99.5W                            |             |              | 100W             |              |              | 101W             |              |              |
|                          | RATED POWER (18CFM FAN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98.81W                                                                                                                                 |           |              | 124.46W                          |             |              | 125.15W          |              |              | 126.43W          |              |              |
|                          | RIPPLE & NOISE (max.) Note.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 100mVp-p                                                                                                                               | 100mVp-p  | 120mVp-p     | 100mVp-p                         | 120mVp-p    | 120mVp-p     | 100mVp-p         | 150mVp-p     | 150mVp-p     | 100mVp-p         | 240mVp-p     | 120mVp-p     |
|                          | VOLTAGE ADJ. RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CH1:3.13 ~ 3.46V                                                                                                                       |           |              | CH1:4.75 ~ 5.25V                 |             |              | CH1:4.75 ~ 5.25V |              |              | CH1:4.75 ~ 5.25V |              |              |
|                          | VOLTAGE TOLERANCE Note.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ±3.0%                                                                                                                                  | ±5.0%     | ±6.0%        | ±3.0%                            | ±5.0%       | ±6.0%        | ±3.0%            | ±5.0%        | ±6.0%        | ±3.0%            | ±5.0%        | ±6.0%        |
|                          | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ±0.5%                                                                                                                                  | ±0.5%     | ±0.5%        | ±0.5%                            | ±0.5%       | ±0.5%        | ±0.5%            | ±0.5%        | ±0.5%        | ±0.5%            | ±0.5%        | ±0.5%        |
|                          | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ±3.0%                                                                                                                                  | ±3.0%     | ±5.0%        | ±3.0%                            | ±3.0%       | ±5.0%        | ±3.0%            | ±3.0%        | ±5.0%        | ±3.0%            | ±3.0%        | ±5.0%        |
|                          | SETUP, RISE TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1000ms, 30ms/230VAC                                                                                                                    |           |              | 2000ms, 30ms/115VAC at full load |             |              |                  |              |              |                  |              |              |
|                          | HOLD UP TIME (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24ms/230VAC                                                                                                                            |           |              | 24ms/115VAC at full load         |             |              |                  |              |              |                  |              |              |
| INPUT                    | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 90 ~ 264VAC                                                                                                                            |           |              | 127 ~ 370VDC                     |             |              |                  |              |              |                  |              |              |
|                          | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 47~63Hz                                                                                                                                |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PF>0.93/230VAC                                                                                                                         |           |              | PF>0.98/115VAC at full load      |             |              |                  |              |              |                  |              |              |
|                          | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75%                                                                                                                                    |           |              | 78%                              |             |              | 78%              |              |              | 78%              |              |              |
|                          | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.7A/115VAC                                                                                                                            |           |              | 0.75A/230VAC                     |             |              |                  |              |              |                  |              |              |
|                          | INRUSH CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | COLD START 24A/230VAC                                                                                                                  |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <2mA / 240VAC                                                                                                                          |           |              |                                  |             |              |                  |              |              |                  |              |              |
| PROTECTION               | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 130 ~ 160% rated output power<br>Protection type : Fold back current limiting, recovers automatically after fault condition is removed |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CH1:3.6 ~ 4.45V                                                                                                                        |           |              | CH1:5.75 ~ 6.75V                 |             |              | CH1:5.75 ~ 6.75V |              |              | CH1:5.75 ~ 6.75V |              |              |
| ENVIRONMENT              | WORKING TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -20 ~ +70℃ (Refer to "Derating Curve")                                                                                                 |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20 ~ 90% RH non-condensing                                                                                                             |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40 ~ +85℃, 10 ~ 95% RH                                                                                                                |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ±0.05%/℃ (0 ~ 50℃)                                                                                                                     |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 ~ 500Hz, 2G 10min./1cycle, 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 / 25℃ / 70% RH                                                                              |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3                                                                                |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A                                                      |           |              |                                  |             |              |                  |              |              |                  |              |              |
| OTHERS                   | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 94.7Khrs min. MIL-HDBK-217F (25℃)                                                                                                      |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 127*76.2*34.6mm (L*W*H)                                                                                                                |           |              |                                  |             |              |                  |              |              |                  |              |              |
|                          | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.37Kg; 36pcs/14.3Kg/0.79CUFT                                                                                                          |           |              |                                  |             |              |                  |              |              |                  |              |              |
| 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. 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> )<br>5. Heat Sink HS1,HS2 & HS3 can not be shorted. |                                                                                                                                        |           |              |                                  |             |              |                  |              |              |                  |              |              |

## Mechanical Specification

Unit:mm



AC Input Connector (CN1) : JST B3P-VH or equivalent

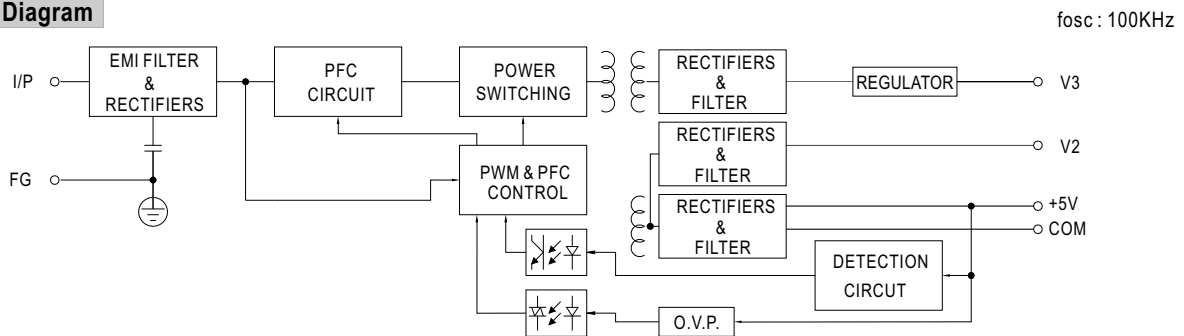
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | AC/L       | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | No Pin     |                       |                                |
| 3       | AC/N       |                       |                                |

DC Output Connector (CN4) : JST B5P-VH\*2 or equivalent

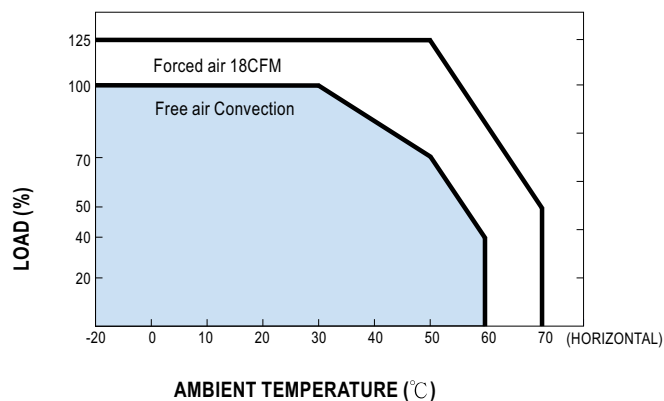
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | CH3        | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2,3     | CH2        |                       |                                |
| 4~8     | GND        |                       |                                |
| 9,10    | CH1        |                       |                                |

⚠ HS1, HS2 & HS3 can not be shorted

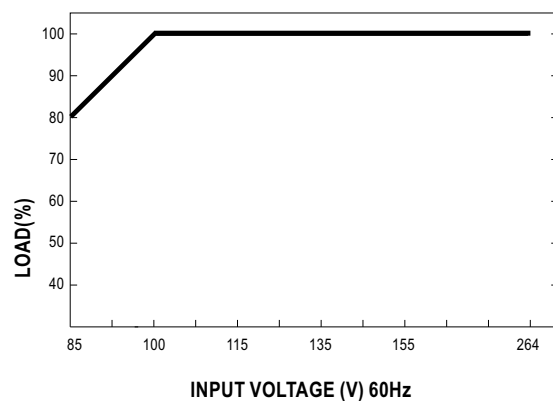
## Block Diagram



## Derating Curve



## Output Derating VS Input Voltage



# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



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