



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/inch³
- LED indicator for power on
- 100% full load burn-in test
- 125W with 18CFM FAN
- 5"x3" compact size
- 3 years warranty



■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

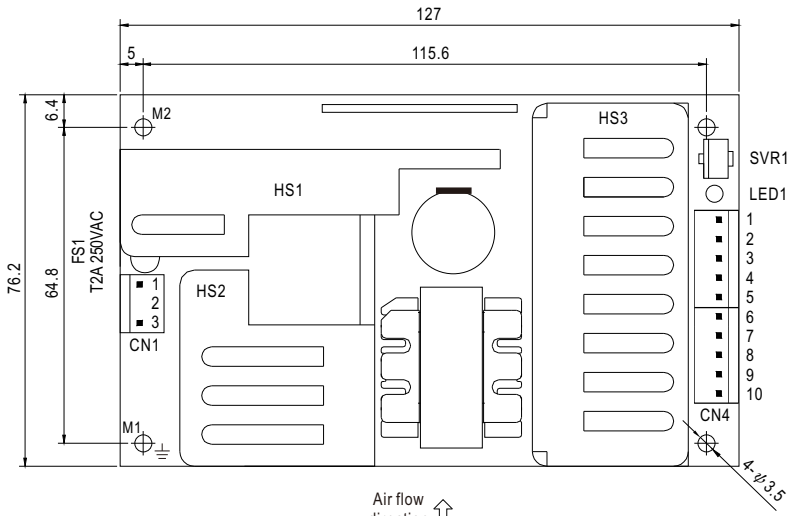


SPECIFICATION

| 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 | | | 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°C (Refer to "Derating Curve") | | | | | | | | | | | |
| | WORKING TEMP. | 20 ~ 90% RH non-condensing | | | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.05%/°C (0 ~ 50°C) | | | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | | | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 | | | | | | | | | | | |
| | EMC IMMUNITY | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020 | | | | | | | | | | | |
| OTHERS | MTBF | 2173.4K hrs min. Telcordia SR-332 (Bellcore) ; 269.9K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | |
| | DIMENSION | 127*76.2*34.6mm (L*W*H) | | | | | | | | | | | |
| | PACKING | 0.37Kg; 36pcs/14.3Kg/0.96CUFT | | | | | | | | | | | |
| NOTE | <ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 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 http://www.meanwell.com) Heat Sink HS1,HS2 & HS3 can not be shorted. 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>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | | | | | | | | | | |

■ 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 | | |

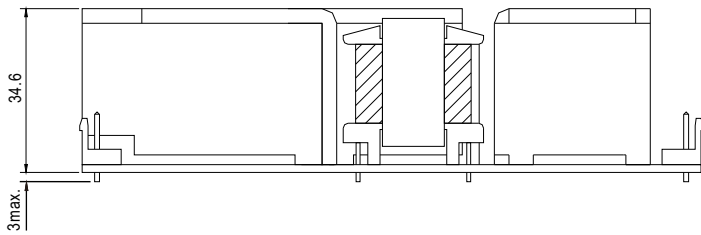
DC Output Connector (CN4) : JST B5P-VH*2 or equivalent

| 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 | | |
| | | | |

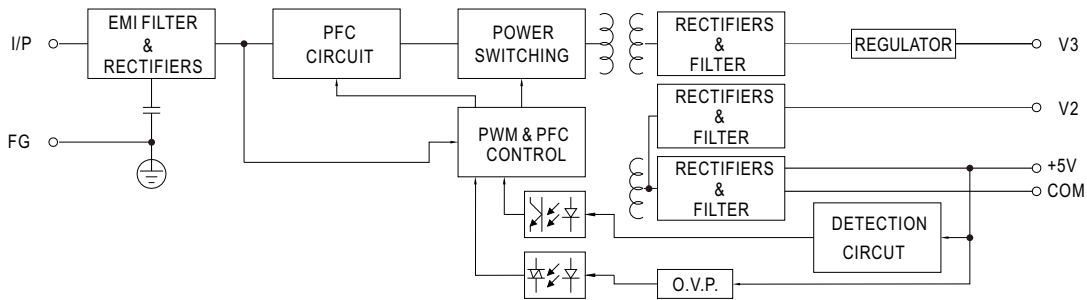
⊥ : Grounding Required



- 1.HS1,HS2 & HS3 cannot be shorted.
- 2.M1 is safety ground. For better EMC performance,Please secure an electrical connection between M1,M2 and chassis grounding.

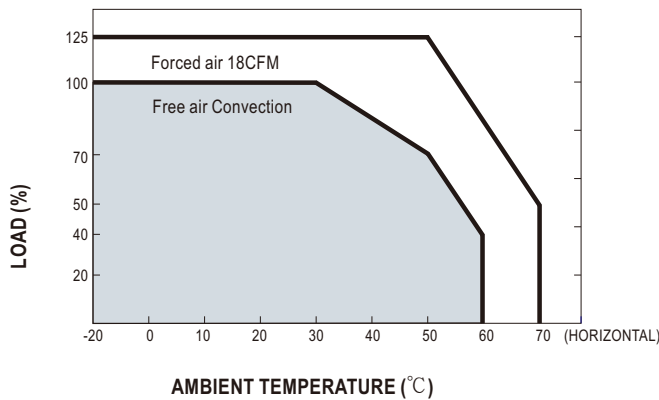


■ Block Diagram



fosc : 100KHz

■ Derating Curve



■ Output Derating VS Input Voltage

