

■ Features :

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

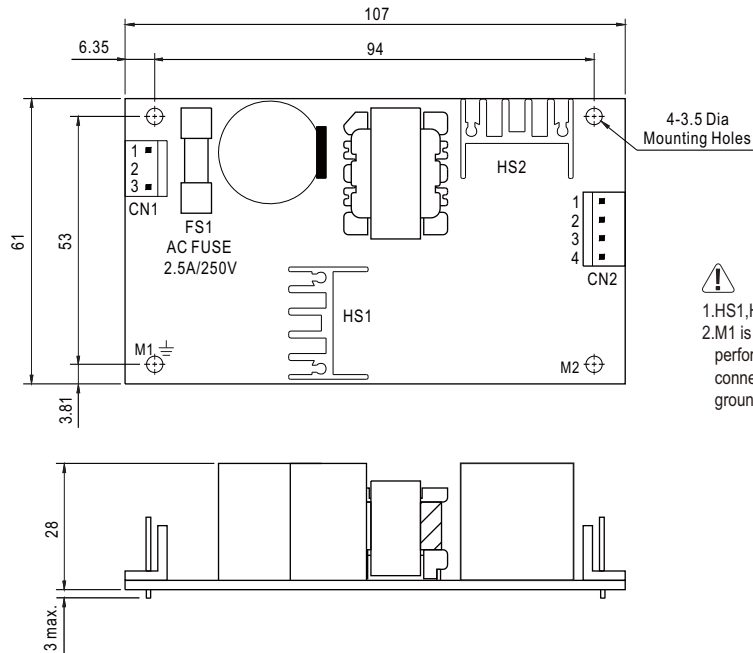


SPECIFICATION

| MODEL | PS-25-3.3 | PS-25-5 | PS-25-7.5 | PS-25-12 | PS-25-13.5 | PS-25-15 | PS-25-24 | PS-25-27 | PS-25-48 | | |
|-----------------------|--|---|--------------------------|---------------------------------|--------------|----------------|--------------|--------------|------------|--------------|--|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 7.5V | 12V | 13.5V | 15V | 24V | 27V | 48V | |
| | RATED CURRENT | 5A | 5A | 3.3A | 2.1A | 1.9A | 1.7A | 1A | 0.9A | 0.5A | |
| | CURRENT RANGE | 0 ~ 5A | 0 ~ 5A | 0 ~ 3.3A | 0 ~ 2.1A | 0 ~ 1.9A | 0 ~ 1.7A | 0 ~ 1A | 0 ~ 0.9A | 0 ~ 0.5A | |
| | RATED POWER | 16.5W | 25W | 24.75W | 25.2W | 25.65W | 25.5W | 24W | 24.3W | 24W | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 80mVp-p | 80mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 240mVp-p | 240mVp-p | 350mVp-p | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.3% | ±0.3% | ±0.3% | ±0.2% | ±0.2% | ±0.2% | |
| | LOAD REGULATION | ±2.5% | ±2.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±0.5% | ±0.5% | ±0.5% | |
| | SETUP, RISE TIME | 200ms, 20ms/230VAC | | 200ms, 30ms/115VAC at full load | | | | | | | |
| HOLD UP TIME (Typ.) | 100ms/230VAC | | 20ms/115VAC at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | 85 ~ 264VAC | | 120 ~ 370VDC | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | |
| | EFFICIENCY(Typ.) | 66% | 74% | 76% | 78% | 78% | 78% | 79% | 79% | 79% | |
| | AC CURRENT (Typ.) | 0.6A/115VAC | | 0.4A/230VAC | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 36A | | | | | | | | | |
| LEAKAGE CURRENT | <0.5mA / 240VAC | | | | | | | | | | |
| PROTECTION | OVERLOAD | Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | |
| | OVER VOLTAGE | 3.8 ~ 4.46V | 5.75 ~ 6.75V | 8.6 ~ 10.1V | 13.8 ~ 16.2V | 15.5 ~ 18.2V | 17.3 ~ 20.3V | 27.6 ~ 32.4V | 31 ~ 36.5V | 55.2 ~ 64.8V | |
| | OVER TEMPERATURE | Shut down o/p voltage, re-power on to recover | | | | | | | | | |
| 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 | ±0.03%/°C (0 ~ 50°C) | | | | | | | | | |
| VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min.each along X, Y, Z axes | | | | | | | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL60950-1 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 | | | | | | | | | |
| EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5, EN55035, light industry level | | | | | | | | | | |
| OTHERS | MTBF | 576.4Khrs min. MIL-HDBK-217F (25°C) | | | | | | | | | |
| | DIMENSION | 107*61*28mm (L*W*H) | | | | | | | | | |
| | PACKING | 0.14Kg; 96pcs/15Kg/1.2CUFT | | | | | | | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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 http://www.meanwell.com)</p> <p>5. Heat Sink HS1,HS2 can not be shorted.</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</p> | | | | | | | | | | |

■ Mechanical Specification

Unit:mm



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

AC Input Connector (CN1) : Molex 41791-03 or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | AC/L | Molex 2139 or equivalent | Molex 2478 or equivalent |
| 2 | No Pin | | |
| 3 | AC/N | | |

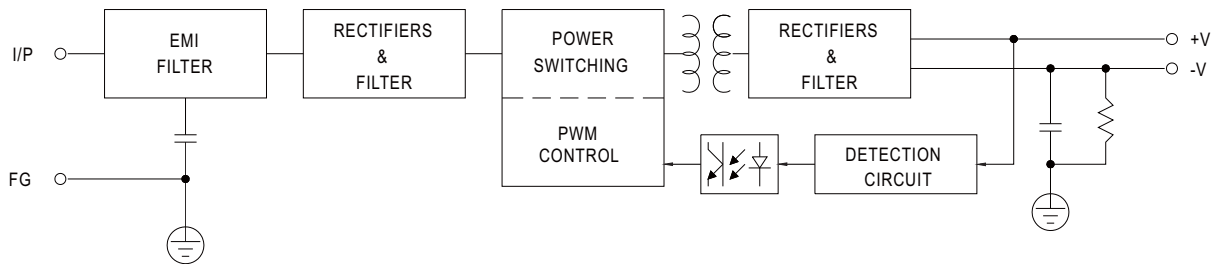
DC Output Connector (CN2) : Molex 41791-04 or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1,2 | +V | Molex 2139 or equivalent | Molex 2478 or equivalent |
| 3,4 | -V | | |

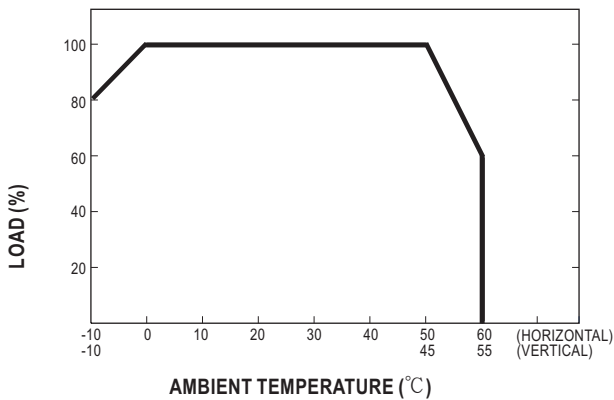
⊥ : Grounding Required

■ Block Diagram

fosc : 100KHz



■ Derating Curve



■ Static Characteristics (24V)

