

- Features :
 - Universal AC input / Full range
 - Low leakage current <250μA
 - Protections: Short circuit / Overload / Over voltage
 - Cooling by free air convection
 - Medical safety approved (2 x MOPP between primary to secondary)
 - 100% full load burn-in test
 - Fixed switching frequency at 45KHz
 - 3 years warranty

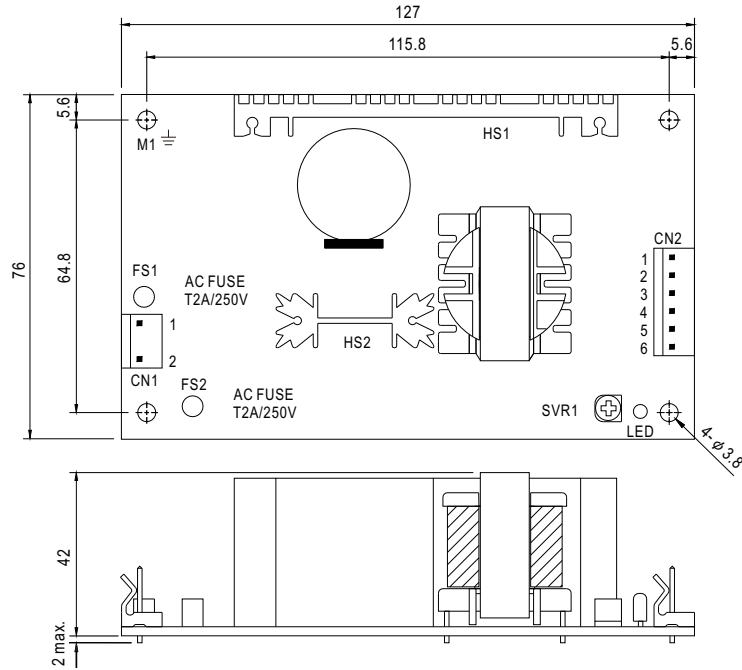


SPECIFICATION

| MODEL | MPS-65-3.3 | MPS-65-5 | MPS-65-7.5 | MPS-65-12 | MPS-65-13.5 | MPS-65-15 | MPS-65-24 | MPS-65-27 | MPS-65-48 | | |
|------------------------|--|--|---------------------------------|--------------|--------------|---------------|----------------|--------------|--------------|--------------|--|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 7.5V | 12V | 13.5V | 15V | 24V | 27V | 48V | |
| | RATED CURRENT | 12A | 12A | 8A | 5.2A | 4.7A | 4.2A | 2.7A | 2.4A | 1.35A | |
| | CURRENT RANGE | 0 ~ 15.2A | 0 ~ 13.8A | 0 ~ 9.6A | 0 ~ 6A | 0 ~ 5.4A | 0 ~ 4.8A | 0 ~ 3A | 0 ~ 2.7A | 0 ~ 1.5A | |
| | RATED POWER | 39.6W | 60W | 60W | 62.4W | 63.45W | 63W | 64.8W | 64.8W | 64.8W | |
| | OUTPUT POWER (max.) | 72W(+3.3V:50W;+5V:69W)with 18CFM min. Forced air convection | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | |
| | VOLTAGE ADJ. RANGE | 2.97 ~ 3.63V | 4.5 ~ 5.5V | 6.75 ~ 8.25V | 10.8 ~ 13.2V | 12.2 ~ 14.85V | 13.5 ~ 16.5V | 21.6 ~ 26.4V | 24.3 ~ 29.7V | 43.2 ~ 52.8V | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | |
| | LINE REGULATION | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | |
| | LOAD REGULATION | ±3.0% | ±3.0% | ±3.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% | |
| SETUP, RISE TIME | 800ms, 30ms/230VAC | | 800ms, 30ms/115VAC at full load | | | | | | | | |
| HOLD UP TIME (Typ.) | 50ms/230VAC | | 16ms/115VAC at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC | | 127 ~ 370VDC | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | |
| | EFFICIENCY(Typ.) | 66% | 74% | 76% | 77% | 78% | 79% | 80% | 80% | 80% | |
| | AC CURRENT (Typ.) | 1.6A/115VAC | | 0.9A/230VAC | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 17A/115VAC | | 40A/230VAC | | | | | | | |
| LEAKAGE CURRENT Note.7 | Earth leakage current < 250μA/264VAC , Touch current < 60μA/264VAC | | | | | | | | | | |
| PROTECTION | OVERLOAD | 73 ~ 105W (3.3V:51 ~ 75W)(5V:70 ~ 105W) rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | |
| | OVER VOLTAGE | 3.8 ~ 4.46V | 5.75 ~ 6.75V | 8.63 ~ 10.1V | 13.8 ~ 16.2V | 15.5 ~ 18.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 31 ~ 36.45V | 55.2 ~ 64.8V | |
| 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) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved | | | | | | | | | |
| | ISOLATION LEVEL | Primary-Secondary: 2xMOPP, Primary-Earth:1xMOPP | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVAC | | | I/P-FG:2KVAC | | O/P-FG:0.5KVAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2, medical level, criteria A | | | | | | | | | |
| OTHERS | MTBF | 359.7Khrs min. MIL-HDBK-217F (25°C) | | | | | | | | | |
| | DIMENSION | 127*76*42mm (L*W*H) | | | | | | | | | |
| | PACKING | 0.23Kg; 54pcs/14.6Kg/1.35CUFT | | | | | | | | | |
| NOTE | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 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) 5. Mounting holes M1 and M2 should be grounded for EMI purposes. 6. Heat Sink HS1,HS2 can not be shorted. 7. Touch current was measured from primary input to DC output. | | | | | | | | | | |

■ Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 5277-02 or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | AC/L | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2 | AC/N | | |

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

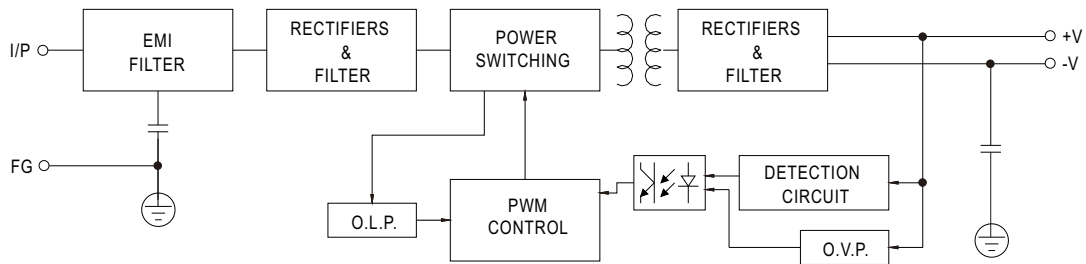
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1,2,3 | +V | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 4,5,6 | -V | | |

⊥ : Grounding Required

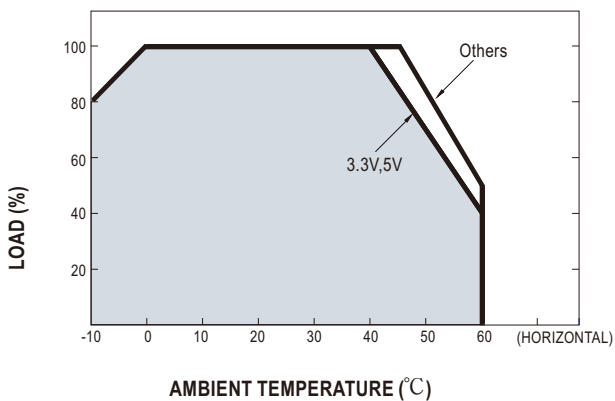
- ⚠ 1.HS1,HS2 cannot be shorted
- 2.M1 is safety ground

■ Block Diagram

fosc : 45KHz



■ Derating Curve



■ Static Characteristics

