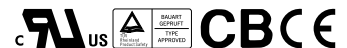


- Features :
 - Universal AC input/Full range
 - Low leakage current<0.5mA
 - Protections: Short circuit / Overload / Over voltage
 - Cooling by free air convection
 - 100% full load burn-in test
 - Fixed switching frequency at 65KHz

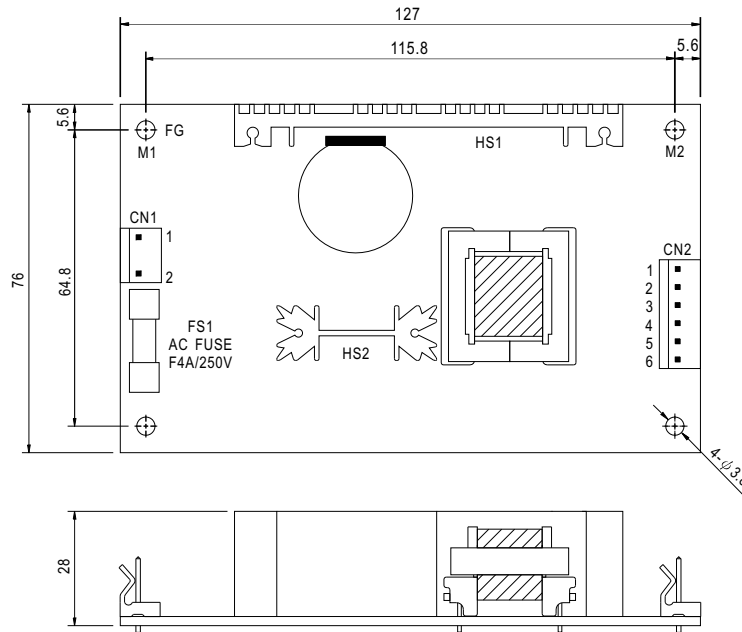


SPECIFICATION

| MODEL | PS-45-3.3 | PS-45-5 | PS-45-7.5 | PS-45-12 | PS-45-13.5 | PS-45-15 | PS-45-24 | PS-45-27 | PS-45-48 | | |
|-----------------------|--|---|--------------|----------------|--------------|---------------|----------------|--------------|---------------|--------------|----------|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 7.5V | 12V | 13.5V | 15V | 24V | 27V | 48V | |
| | RATED CURRENT | 8A | 8A | 5.4A | 3.7A | 3.3A | 3A | 1.9A | 1.7A | 1A | |
| | CURRENT RANGE | 0 ~ 10.7A | 0 ~ 10.5A | 0 ~ 7A | 0 ~ 4.4A | 0 ~ 3.9A | 0 ~ 3.5A | 0 ~ 2.2A | 0 ~ 1.95A | 0 ~ 1.1A | |
| | RATED POWER | 26.4W | 40W | 40.5W | 44.4W | 44.55W | 45W | 45.6W | 45.9W | 48W | |
| | OUTPUT POWER (max.) | Rated output power for convection; 52W (+3.3V : 35W) with 18 CFM min. | | | | | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p |
| | VOLTAGE ADJ. RANGE | 3.14 ~ 3.63V | 4.75 ~ 5.5V | 7.13 ~ 8.25V | 11.4 ~ 13.2V | 12.8 ~ 14.85V | 14.25 ~ 16.5V | 22.8 ~ 26.4V | 25.65 ~ 29.7V | 45.6 ~ 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 at full load | | | | | | | | | | |
| HOLD UP TIME (Typ.) | 60ms at full load | | | | | | | | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC | | 127 ~ 370VDC | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 440Hz | | | | | | | | | |
| | EFFICIENCY(Typ.) | 69% | 74% | 75% | 76% | 77% | 77% | 78% | 78% | 78% | |
| | AC CURRENT (Typ.) | 0.8A/115VAC | | 0.56A/230VAC | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 15A/115VAC | | 30A/230VAC | | | | | | | |
| LEAKAGE CURRENT | <0.75mA / 240VAC | | | | | | | | | | |
| PROTECTION | OVERLOAD | 53 ~ 75W(3.3V : 36 ~ 55W) 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 | ±0.05%/°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, 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°C / 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 | 300.7K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | |
| | DIMENSION | 127*76*28mm (L*W*H) | | | | | | | | | |
| | PACKING | 0.19Kg; 72pcs/15.6Kg/1.35CUFT | | | | | | | | | |
| NOTE | <ol style="list-style-type: none"> 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. 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. | | | | | | | | | | |

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 | | |

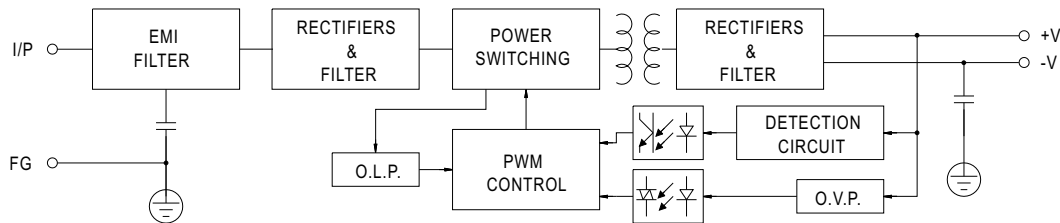
DC Output Connector (CN2) : Molex 5273-06 or equivalent

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

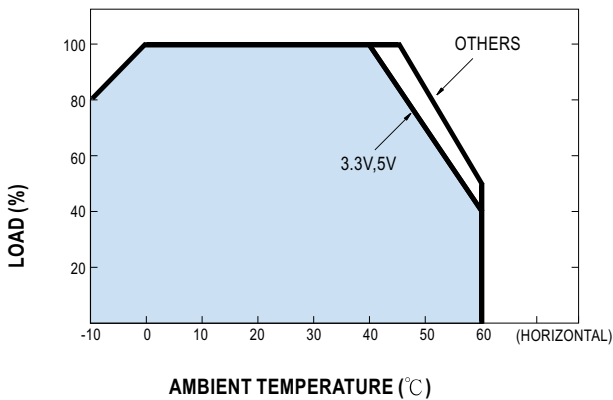
⚠ HS1,HS2 can not be shorted

Block Diagram

fosc : 65KHz



Derating Curve



Static Characteristics (12V)

