

■ Features :

- 2:1 wide input range
- Protections: Short circuit/Over load /Over voltage/Polarity
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 96KHZ
- Low cost
- High reliability
- 2 year warranty

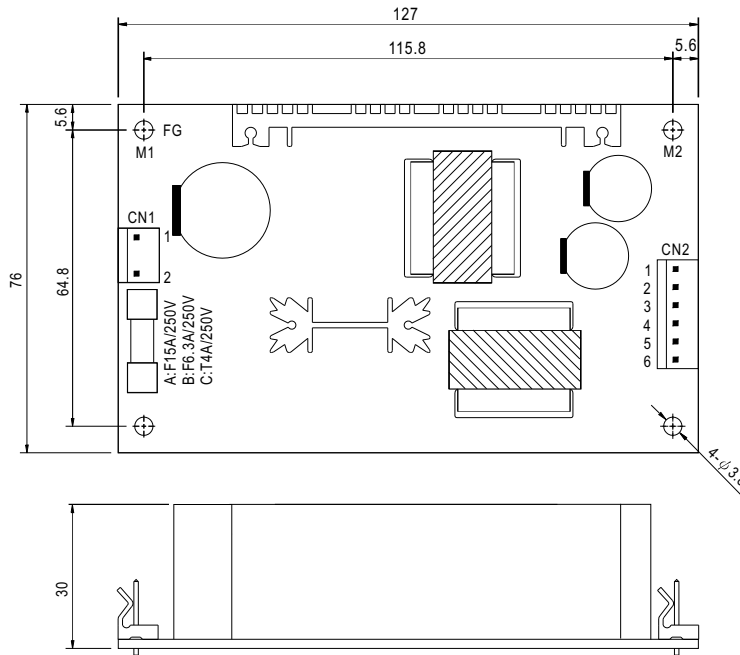
SPECIFICATION



| MODEL | | PSD-45A-05 | PSD-45B-05 | PSD-45C-05 | PSD-45A-12 | PSD-45B-12 | PSD-45C-12 | PSD-45A-24 | PSD-45B-24 | PSD-45C-24 |
|---------------------------|---|---|------------|------------|----------------------|------------|------------|----------------------|------------|------------|
| OUTPUT | DC VOLTAGE | 5V | 5V | 5V | 12V | 12V | 12V | 24V | 24V | 24V |
| | RATED CURRENT | 6A | 9A | 9A | 2.5A | 3.75A | 3.75A | 1.25A | 1.875A | 1.875A |
| | CURRENT RANGE | 0 ~ 6A | 0 ~ 9A | 0 ~ 9A | 0 ~ 2.5A | 0 ~ 3.75A | 0 ~ 3.75A | 0 ~ 1.25A | 0 ~ 1.875A | 0 ~ 1.875A |
| | RATED POWER | 30W | 45W | 45W | 30W | 45W | 45W | 30W | 45W | 45W |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | | | 120mVp-p | | | 150mVp-p | | |
| | VOLTAGE ADJ RANGE | 4.5 ~ 5.5V | | | 10.8 ~ 13.2V | | | 21.6 ~ 26.4V | | |
| | VOLTAGE TOLERANCE Note.3 | ± 2.0% | | | ± 2.0% | | | ± 2.0% | | |
| | LINE REGULATION | ± 1.0% | | | ± 1.0% | | | ± 0.5% | | |
| | LOAD REGULATION | ± 1.0% | | | ± 1.0% | | | ± 0.5% | | |
| SETUP, RISE, HOLD UP TIME | 1000ms, 50ms, ----/12VDC/24VDC at full load; 1500ms, 50ms, ----48VDC at full load | | | | | | | | | |
| INPUT | VOLTAGE RANGE | A: 9.2 ~ 18VDC (12VDC) B: 18 ~ 36VDC (24VDC) C: 37 ~ 72VDC (48VDC) | | | | | | | | |
| | EFFICIENCY (Typ.) | 74% | 77% | 80% | 79% | 82% | 83% | 80% | 85% | 86% |
| | DC CURRENT (Typ.) | 3.5A/12VDC 2.5A/24VDC 1.2A/48VDC | | | | | | | | |
| PROTECTION | OVER LOAD | 105% -160% rated output power Protection type : shut down, Re-power on/10% load after fault condition is removed | | | | | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V/10%load | | | 13.8 ~ 16.2V/10%load | | | 27.6 ~ 32.4V/10%load | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +60°C (Refer to output load derating curve), 20~90%RH non-condensing | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% 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 | SAFETY STANDARDS | EN60950-1 CB approved by TUV | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 1.5KVAC 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 | | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022(CISPR22) CLASS B | | | | | | | | |
| OTHERS | EMS IMMUNITY | Compliance to EN61000-4-2, 3, 4, 6, 8 EN55024, EN61000-6-1 Light industry level, criteria A | | | | | | | | |
| | MTBF | 329.3Khrs min. MIL-HDBK-217F (25°C) | | | | | | | | |
| | DIMENSION | 127*76*30mm (L*W*H) | | | | | | | | |
| NOTE | PACKING | 0.19Kg; 72pcs/15.6Kg/1.35CUFT | | | | | | | | |
| | | 1. All parameters NOT specially mentioned are measured at normal input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20 MHz of bandwidth by using a 12inch twisted pair-wire terminated with a 0.1uf & 47uf capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. | | | | | | | | |

Mechanical Specification

Unit:mm



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

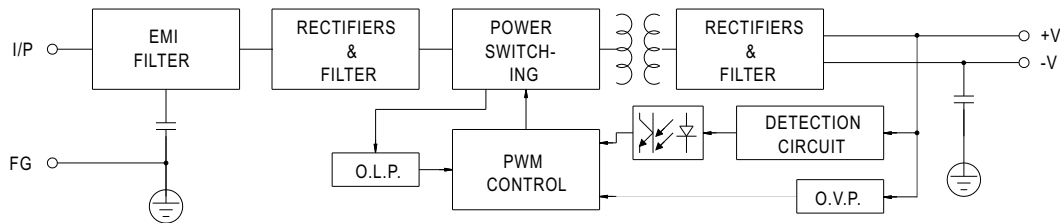
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1 | Vin- | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 2 | Vin+ | | |

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

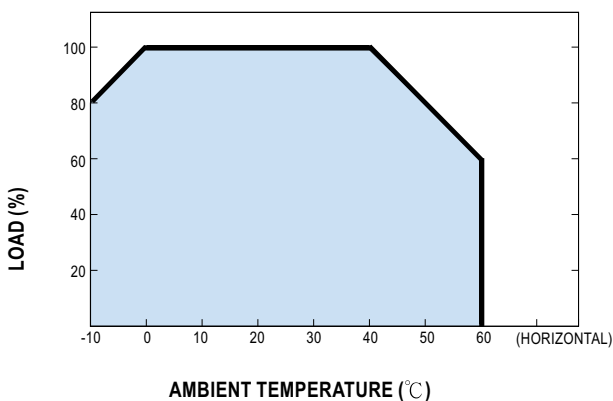
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|--------------------------|--------------------------|
| 1,2,3 | +V | Molex 5195 or equivalent | Molex 5194 or equivalent |
| 4,5,6 | -V | | |

Block Diagram

fosc :96KHz



Output Derating



Static Characteristics

