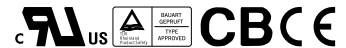


■ Features :

- 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

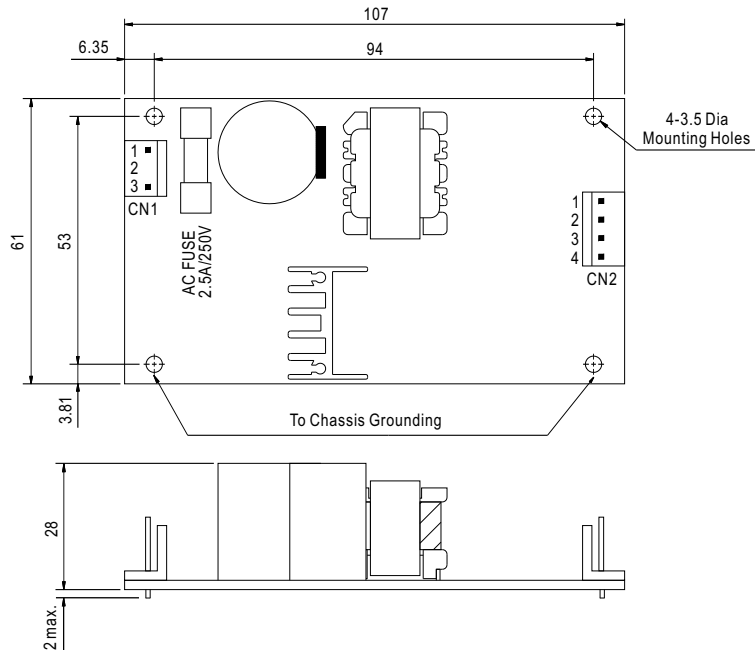


### SPECIFICATION

| 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                      | 24.8W                           | 25.2W        | 25.7W        | 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<br>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  | Tj 135°C typically (U1) detect on main control IC<br>Protection type : Shut down o/p voltage, re-power on to recover    |                          |                                 |              |              |              |              |            |              |  |
| ENVIRONMENT           | WORKING TEMP.   | -10 ~ +60°C (Refer to output load 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, 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  |                          |                                 |              |              |              |              |            |              |  |
|                       | EMI CONDUCTION & RADIATION  | Compliance to EN55022 (CISPR22) Class B   |                          |                                 |              |              |              |              |            |              |  |
|                       | HARMONIC CURRENT  | Compliance to EN61000-3-2,-3  |                          |                                 |              |              |              |              |            |              |  |
| EMS IMMUNITY          | Compliance to EN61000-4-2,3,4,5, light industry level, criteria A   |   |                          |                                 |              |              |              |              |            |              |  |
| OTHERS                | MTBF  | 576.4Khrs min. MIL-HDBK-217F (25°C)   |                          |                                 |              |              |              |              |            |              |  |
|                       | DIMENSION   | 107*61*28mm (L*W*H)   |                          |                                 |              |              |              |              |            |              |  |
|                       | PACKING   | 0.14Kg; 96pcs/15Kg/1.3CUFT  |                          |                                 |              |              |              |              |            |              |  |
| NOTE                  | <ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> </ol> |   |                          |                                 |              |              |              |              |            |              |  |

■ Mechanical Specification

Unit:mm



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

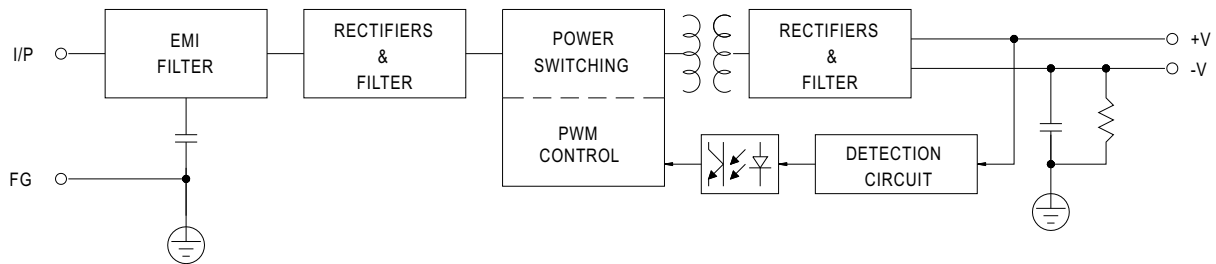
| Pin No. | Assignment | Mating Housing           | Terminal                 |
|---------|------------|--------------------------|--------------------------|
| 1       | AC/L       | Molex 2139 or equivalent | Molex 2478 or equivalent |
| 2       | No Pin     |                          |            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

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

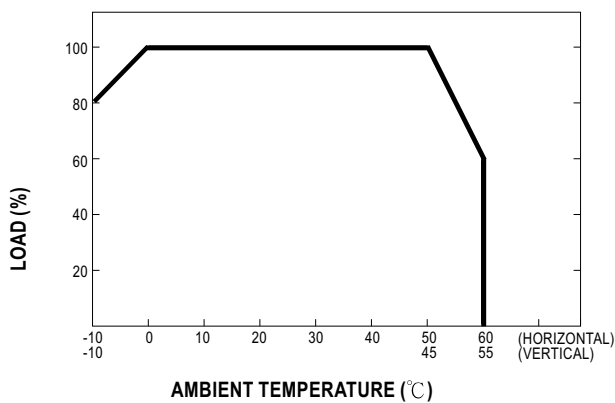
| Pin No. | Assignment | Mating Housing           | Terminal                 |
|---------|------------|--------------------------|--------------------------|
| 1,2     | +V         | Molex 2139 or equivalent | Molex 2478 or equivalent |
| 3,4     | -V         |                          |            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

■ Block Diagram

fosc : 100KHz



■ Derating Curve



■ Static Characteristics (24V)

