

■ Features :

- Protections: Short circuit/Over load /Over voltage/Polarity
- Cooling by free air convection
- 100% full load burn-in test
- Low cost
- High reliability
- 2 year warranty

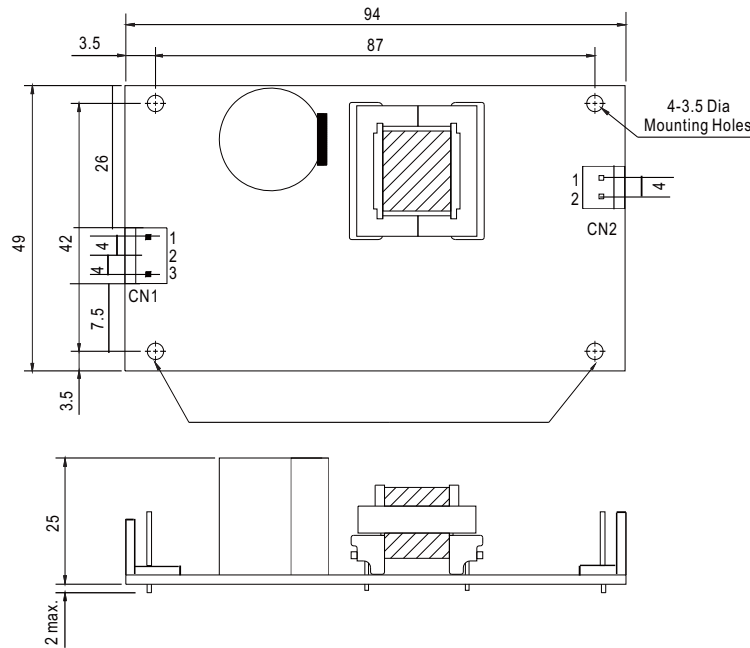


SPECIFICATION

| MODEL                     |   | PSD-15A-05  | PSD-15B-05 | PSD-15C-05 | PSD-15A-12            | PSD-15B-12 | PSD-15C-12 | PSD-15A-24            | PSD-15B-24 | PSD-15C-24 |
|---------------------------|---|---|------------|------------|-----------------------|------------|------------|-----------------------|------------|------------|
| OUTPUT                    | DC VOLTAGE  | 5V  |            |            | 12V                   |            |            | 24V                   |            |            |
|                           | RATED CURRENT   | 3A  |            |            | 1.25A                 |            |            | 0.6A                  |            |            |
|                           | CURRENT RANGE   | 0 ~ 3A  |            |            | 0 ~ 1.25A             |            |            | 0 ~ 0.6A              |            |            |
|                           | RATED POWER   | 15W   |            |            | 15W                   |            |            | 14.4W                 |            |            |
|                           | RIPPLE & NOISE (max.) Note.2  | 50mVp-p   |            |            | 100mVp-p              |            |            | 100mVp-p              |            |            |
|                           | 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 | 2.5s, 25ms, ---/12VDC/24VDC/48VDC at full load  |   |            |            |                       |            |            |                       |            |            |
| INPUT                     | VOLTAGE RANGE   | A: 9.2 ~ 18VDC (12VDC)  |            |            | B: 18 ~ 36VDC (24VDC) |            |            | C: 36 ~ 72VDC (48VDC) |            |            |
|                           | EFFICIENCY(Typ.)  | 74%   | 78%        | 78%        | 67%                   | 78%        | 78%        | 72%                   | 78%        | 79%        |
|                           | DC CURRENT(Typ.)  | 1.9A/12VDC 0.9A/24VDC 0.45A/48VDC   |            |            |                       |            |            |                       |            |            |
| PROTECTION                | OVER LOAD   | 105% -150% rated output power<br>Protection type : hiccup mode ,recovery automatically after fault condition is removed |            |            |                       |            |            |                       |            |            |
|                           | OVER VOLTAGE  | 5.75 ~ 6.75V  |            |            | 13.8~ 16.2V           |            |            | 27.6 ~ 32.4V          |            |            |
| 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              | WITHSTAND VOLTAGE   | I/P-O/P:1.5KVAC   |            |            |                       |            |            |                       |            |            |
|                           | ISOLATION RESISTANCE  | I/P-O/P:100M Ohms/500VDC / 25°C/ 70% RH   |            |            |                       |            |            |                       |            |            |
|                           | EMI CONDUCTION&RADIATION  | Compliance to EN55022(CISPR22) CLASS B  |            |            |                       |            |            |                       |            |            |
|                           | EMS IMMUNITY  | Compliance to EN61000-4-2, 3, 4, 6, 8 EN55024, EN61000-6-1 Light industry level, criteria A                             |            |            |                       |            |            |                       |            |            |
| OTHERS                    | MTBF  | 740.4Khrs min. MIL-HDBK-217F(25°C)  |            |            |                       |            |            |                       |            |            |
|                           | DIMENSION   | 94*49*25mm (L*W*H)  |            |            |                       |            |            |                       |            |            |
|                           | PACKING   | 81mg;120pcs/10.72Kg   |            |            |                       |            |            |                       |            |            |
| NOTE                      | <p>1. All parameters NOT specially mentioned are measured at normal input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20 MHz of bandwidth by using a 12inch twisted pair-wire terminated with a 0.1uf &amp; 47uf 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. 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."<br/>(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</p> |   |            |            |                       |            |            |                       |            |            |

**Mechanical Specification**

Unit:mm



DC Input Connector (CN1) : JST B3P-VH or equivalent

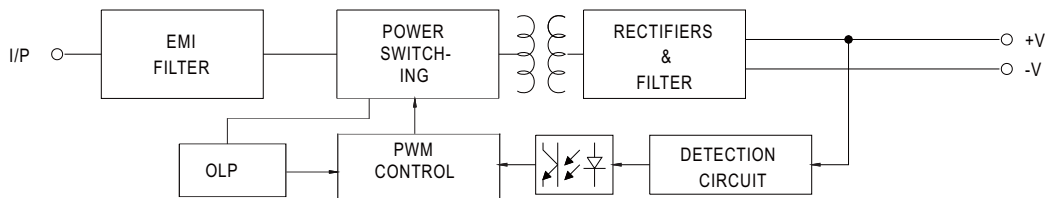
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | -V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | No Pin     |                       |                                |
| 3       | +V         |                       |                                |

DC Output Connector (CN2) : JST B2P-VH or equivalent

| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | -V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | +V         |                       |                                |

**Block Diagram**

fosc : 100KHz



**Output Derating**

