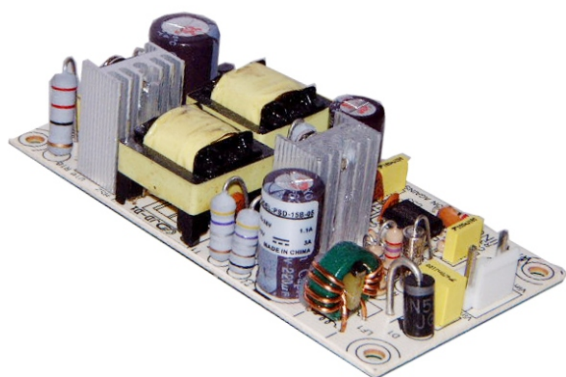




#### ■ Features :

- 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

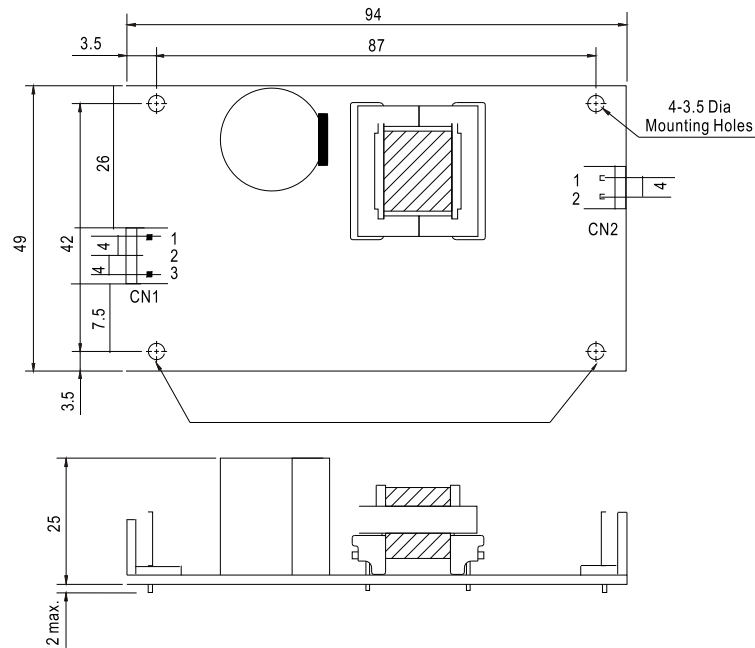
#### SPECIFICATION



| 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.) <small>Note.2</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50mVp-p                                                                                        |            |            | 100mVp-p    |            |            | 100mVp-p     |            |            |
|              | VOLTAGE TOLERANCE <small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ± 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                                                                  |            |            |             |            |            |              |            |            |
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Protection type : Shut off o/p voltage, clamping by zener diode                                |            |            |             |            |            |              |            |            |
|              | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -10~ +60℃ (Refer to output load derating curve), 20 ~ 90% RH non-condensing                    |            |            |             |            |            |              |            |            |
|              | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20 ~ 95% RH non-condensing                                                                     |            |            |             |            |            |              |            |            |
|              | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -20 ~ +85℃, 10 ~ 95% RH                                                                        |            |            |             |            |            |              |            |            |
|              | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ±0.05%/℃ (0 ~ 50℃ )                                                                            |            |            |             |            |            |              |            |            |
|              | 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℃/ 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℃)                                                           |            |            |             |            |            |              |            |            |
|              | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 94*49*25mm (L*W*H)                                                                             |            |            |             |            |            |              |            |            |
|              | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 81mg;120pcs/10.72Kg                                                                            |            |            |             |            |            |              |            |            |
| NOTE         | 1. All parameters NOT specially mentioned are measured at normal input, rated load and 25 ° of ambient temperature.<br>2. Ripple & noise are measured at 20 MHz of bandwidth by using a 12inch twisted pair-wire terminated with a 0.1uf & 47uf capacitor.<br>3. Tolerance: includes set up tolerance, line regulation and load regulation.<br>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> ) |                                                                                                |            |            |             |            |            |              |            |            |

Unit:mm

### Mechanical Specification



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

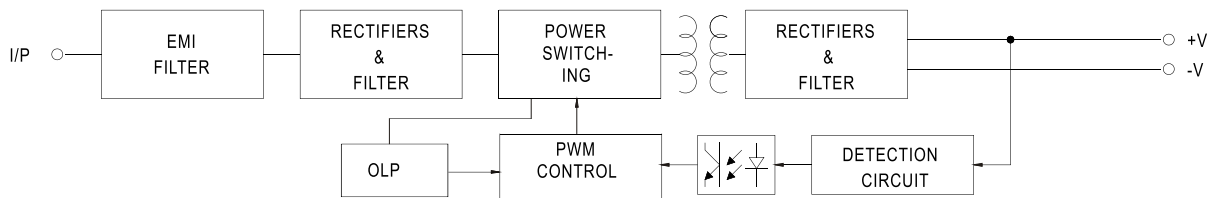
| Pin No. | Assignment | Mating Housing        | Terminal                       |
|---------|------------|-----------------------|--------------------------------|
| 1       | -V         | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2       | No Pin     |                       |      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

