

■ Features :

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

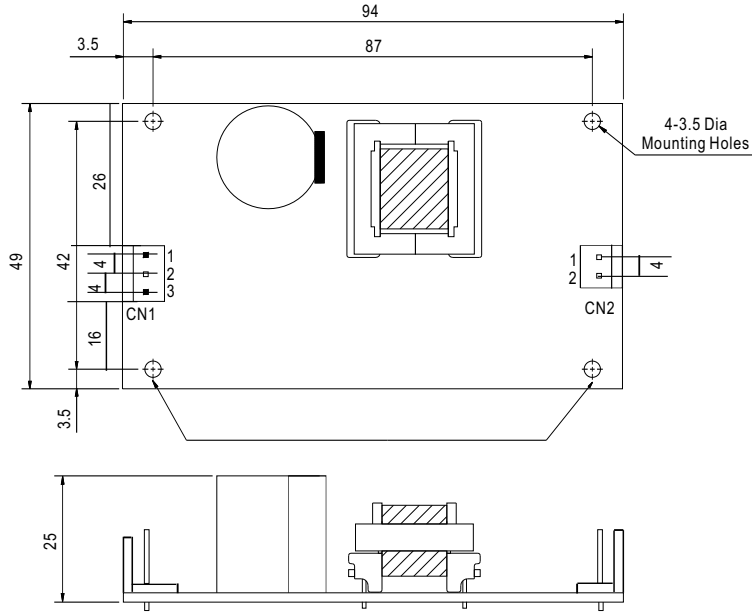


SPECIFICATION

| 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 | OVERLOAD | 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 | WORKING TEMP. | -10 ~ +60°C (Refer to output load derating curve) | | | | | | | | | |
| | 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:2KVAC | | | | | | | | | |
| | 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 | 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 & noise are measured at 20 MHz of bandwidth by using a 12inch twisted pair-wire terminated with a 0.1uf & 47uf capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation.</p> | | | | | | | | | | |

■ Mechanical Specification

Unit:mm



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

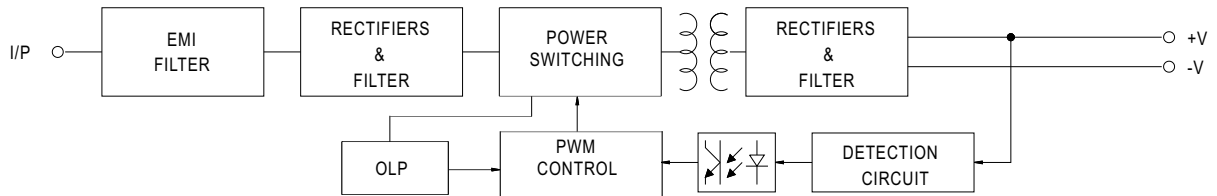
| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1 | -V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2 | NC | | |
| 3 | +V | | |

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



■ Derating Curve

