



■ Features :

- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage/Reverse polarity
- 1500VAC I/O isolation
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost
- High reliability
- 2 year warranty

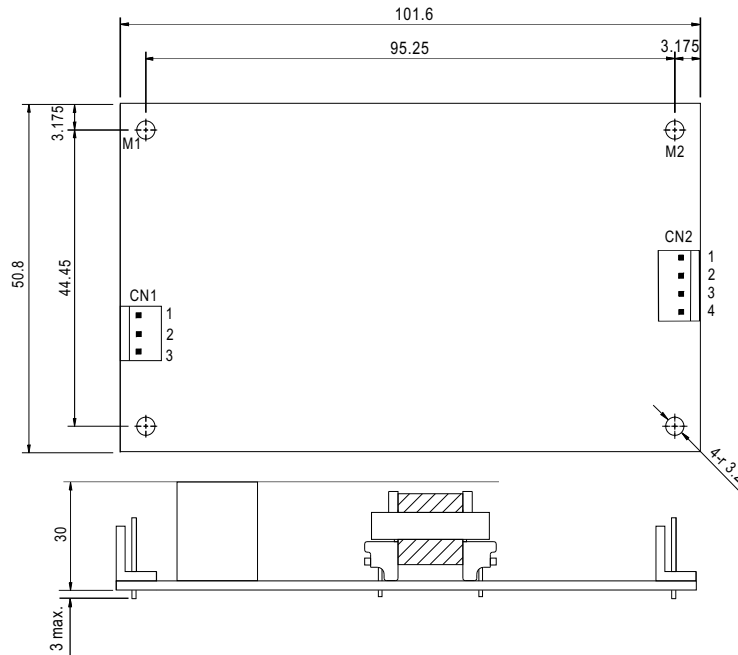


SPECIFICATION

| MODEL | | PSD-30A-5 | PSD-30B-5 | PSD-30C-5 | PSD-30A-12 | PSD-30B-12 | PSD-30C-12 | PSD-30A-24 | PSD-30B-24 | PSD-30C-24 |
|---|---|---|-----------|-----------|--------------|------------|------------|------------|------------|------------|
| OUTPUT | DC VOLTAGE | 5V | | | 12V | | | 24V | | |
| | RATED CURRENT | 5A | | | 2.5A | | | 1.25A | | |
| | CURRENT RANGE | 0 ~ 5A | | | 0 ~ 2.5A | | | 0 ~ 1.25A | | |
| | RATED POWER | 25W | | | 30W | | | 30W | | |
| | RIPPLE & NOISE (max.) <small>Note.2</small> | 100mVp-p | | | 120mVp-p | | | 150mVp-p | | |
| | VOLTAGE ADJ. RANGE | 4.5 ~ 5.5VDC | | | 11 ~ 13.5VDC | | | 22 ~ 26VDC | | |
| | VOLTAGE TOLERANCE <small>Note.3</small> | ±2.0% | | | ±1.0% | | | ±1.0% | | |
| | LINE REGULATION | ±1.0% | | | ±1.0% | | | ±1.0% | | |
| | LOAD REGULATION | ±1.0% | | | ±1.0% | | | ±1.0% | | |
| SETUP, RISE, HOLD UP TIME | | 2s, 50ms, ----- at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | A:9 ~ 18VDC B:18 ~ 36VDC C:36 ~ 72VDC | | | | | | | | |
| | EFFICIENCY (Typ.) | 77% | 79% | 80% | 77% | 80% | 82% | 78% | 83% | 83% |
| | DC CURRENT | 4.5A/12V | | | 2.5A/24V | | | 1.1A/48V | | |
| PROTECTION | OVERLOAD | 105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | |
| | OVER VOLTAGE | 6 ~ 7.5V | | | 14 ~ 16.5V | | | 27 ~ 32.5V | | |
| | | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | |
| | REVERSE POLARITY | By internal fuse open | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +55℃ (Refer to output load derating curve) | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85℃, 10 ~ 95% RH | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/℃ (0 ~ 50℃) | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | | | |
| SAFETY & EMC <small>(Note 4)</small> | SAFETY STANDARDS | Design refer to LVD | | | | | | | | |
| | 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 | | | | | | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,6,8; ENV50204, EN 55024, light industry level, criteria A | | | | | | | | |
| OTHERS | MTBF | 902.4K hrs min. MIL-HDBK-217F(25℃) | | | | | | | | |
| | DIMENSION | 101.6*50.8*30mm (L*W*H) | | | | | | | | |
| | PACKING | 0.15kg/8 4pcs/12.6kg/0.82CUFT | | | | | | | | |
| NOTE | 1. All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 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. | | | | | | | | | |

Mechanical Specification

Unit:mm



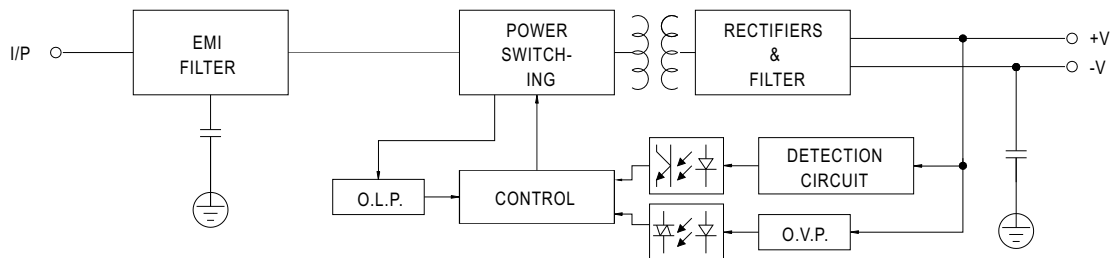
AC Input Connector (CN1) : JST B3P-VH-B or equivalent

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

DC Output Connector (CN2) : JST B4P-VH-B or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1,2 | +V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4 | -V | | |

Block Diagram



Derating Curve

