



■ Features :

- Universal AC input/Full range
- Low leakage current<200uA
- Protections: Short circuit / Overload / Over voltage
- Free air convection for rated power and 23.5CFM forced air convection for peak load
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- Fixed switching frequency at 65KHz
- 3 years warranty

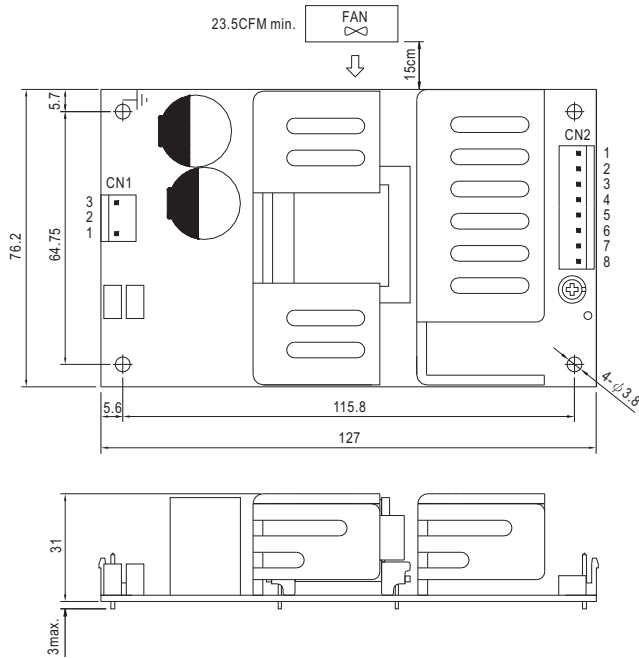


SPECIFICATION

| MODEL | RPD-75A | | RPD-75B | | |
|-----------------------|--|---|--------------|------------------|------------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH1 | CH2 |
| | DC VOLTAGE | 5V | 12V | 5V | 24V |
| | RATED CURRENT | 7A | 3A | 5A | 2A |
| | CURRENT RANGE | 1 ~ 9.5A | 0.3 ~ 4A | 1 ~ 6.8A | 0.2 ~ 2.7A |
| | RATED POWER | 71W | | 73W | |
| | PEAK LOAD (23.5CFM) | 95.5W | | 98.8W | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p | 80mVp-p | 200mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 4.75 ~ 5.5V | | CH1: 4.75 ~ 5.5V | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±6.0% | ±2.0% | ±6.0% |
| | LINE REGULATION | ±0.5% | ±1.0% | ±0.5% | ±1.0% |
| | LOAD REGULATION | ±1.5% | ±3.0% | ±1.5% | ±3.0% |
| SETUP, RISE TIME | 500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load | | | | |
| HOLD UP TIME (Typ.) | 80ms/230VAC | 20ms/115VAC at full load | | | |
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC | 127 ~ 370VDC | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | |
| | EFFICIENCY (Typ.) | 77% | | 79% | |
| | AC CURRENT (Typ.) | 1.5A/115VAC | 1A/230VAC | | |
| | INRUSH CURRENT (Typ.) | COLD START 25A/115VAC 50A/230VAC | | | |
| | LEAKAGE CURRENT | Earth leakage current <200uA / 264VAC, Patient leakage current <100uA/264VAC | | | |
| PROTECTION | OVERLOAD | 140 ~ 180% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | |
| | OVER VOLTAGE | CH1: 5.75 ~ 6.75V Protection type : Shut down o/p voltage, re-power on to recover | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +70°C (Refer to output load derating curve) | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 45°C) | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | UL60601-1, TUV EN60601-1, IEC60601-1 approved | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:1.5KVAC | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61000-6-2, EN61204-3, heavy industry level, EN61204-3 medical level, criteria A | | | |
| OTHERS | MTBF | 569.9K hrs min. MIL-HDBK-217F (25°C) | | | |
| | DIMENSION | 127*76.2*31mm (L*W*H) | | | |
| | PACKING | 0.25Kg; 63pcs/16.7Kg/1.35CUFT | | | |
| NOTE | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel 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.</p> <p>5. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.</p> | | | | |

Mechanical Specification

Unit:mm



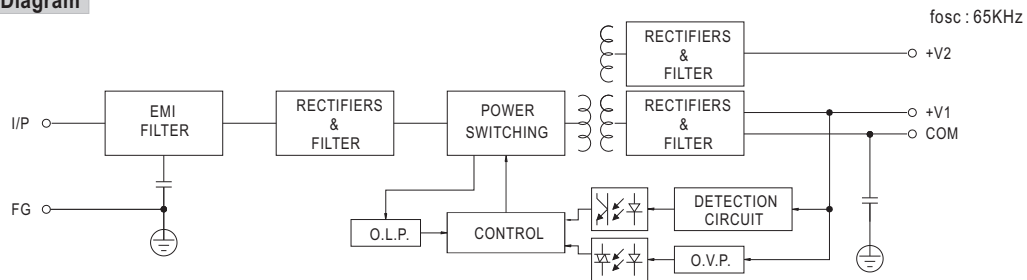
AC Input Connector (CN1) : JST B3P-VH or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1 | AC/N | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 2 | No Pin | | |
| 3 | AC/L | | |

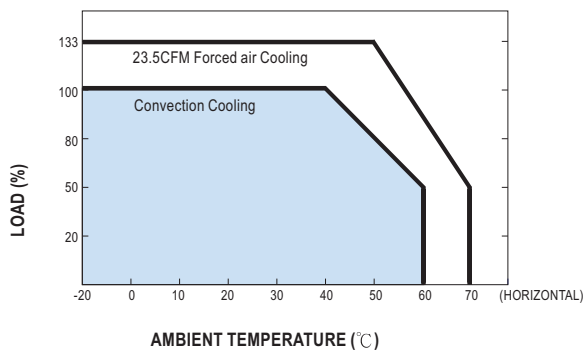
DC Output Connector (CN2) : JST B8P-VH or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|--------------------------------|
| 1,2 | V1 | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 3,4,5 | COM | | |
| 6,7 | V2 | | |
| 8 | NC | | |

Block Diagram



Derating Curve



Output Derating VS Input Voltage

