



■ Features :

- Universal AC input / Full range
- Low leakage current <100µA
- Protections: Short circuit / Overload / Over voltage
- Free air convection for rated power and 23.5CFM forced air convection for peak load
- Medical safety approved (2 x MOPP between primary to secondary)
- No load power consumption<0.75W
- Fixed switching frequency at 65KHz
- 3 years warranty

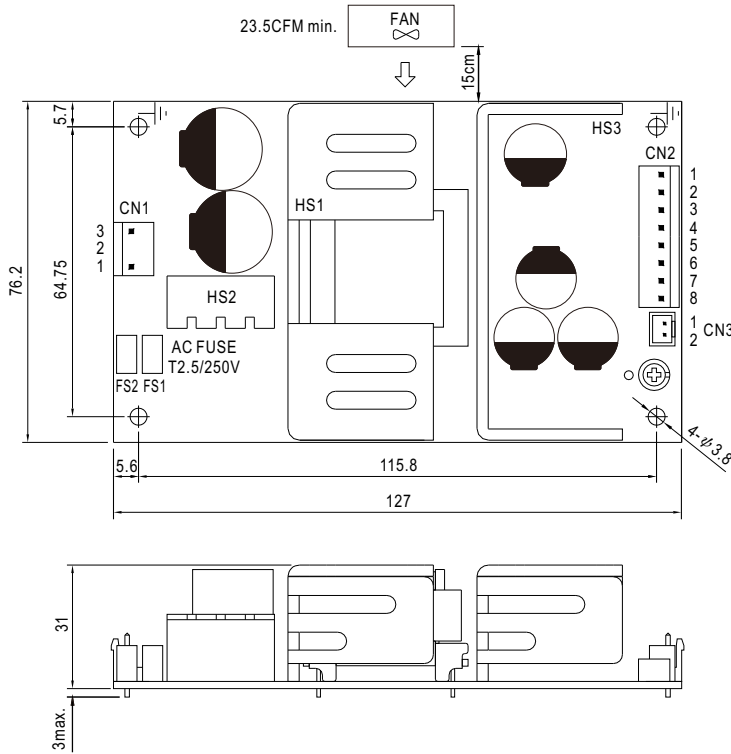


SPECIFICATION

| MODEL | RPS-75-3.3 | RPS-75-5 | RPS-75-12 | RPS-75-15 | RPS-75-24 | RPS-75-36 | RPS-75-48 | |
|------------------------|--|---|--------------|--------------|----------------|--------------|--------------|--------------|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 12V | 15V | 24V | 36V | 48V |
| | RATED CURRENT | 15A | 14A | 6.3A | 5A | 3.2A | 2.1A | 1.6A |
| | CURRENT RANGE | 0 ~ 20A | 0 ~ 18.7A | 0 ~ 8.3A | 0 ~ 6.7A | 0 ~ 4.2A | 0 ~ 2.8A | 0 ~ 2.1A |
| | RATED POWER | 49.5W | 70W | 75.6W | 75W | 76.8W | 75.6W | 76.8W |
| | PEAK LOAD (23.5CFM) | 66W | 93.5W | 99.6W | 100.5W | 100.8W | 100.8W | 100.8W |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 80mVp-p | 120mVp-p | 150mVp-p | 240mVp-p | 300mVp-p | 300mVp-p |
| | VOLTAGE ADJ. RANGE | 2.9 ~ 3.6V | 4.75 ~ 5.5V | 11.4 ~ 13.2V | 13.5 ~ 16.5V | 22.8 ~ 27.6V | 34.2 ~ 39.6V | 45.6 ~ 52.8V |
| | VOLTAGE TOLERANCE Note.3 | ± 2.0% | ± 2.0% | ± 1.0% | ± 1.0% | ± 1.0% | ± 1.0% | ± 1.0% |
| | LINE REGULATION | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% | ± 0.5% |
| | LOAD REGULATION | ± 1.5% | ± 1.5% | ± 1.0% | ± 1.0% | ± 1.0% | ± 1.0% | ± 1.0% |
| 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.) | 73% | 78% | 82% | 83% | 85% | 86% | 86% |
| | AC CURRENT (Typ.) | 1.5A/115VAC 1A/230VAC | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 25A/115VAC 50A/230VAC | | | | | | |
| LEAKAGE CURRENT Note.7 | Earth leakage current < 15µA/264VAC , Touch current < 10µA/264VAC | | | | | | | |
| PROTECTION | OVERLOAD | 140 ~ 180% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed. | | | | | | |
| | OVER VOLTAGE | 3.8 ~ 4.46V | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V | 41.4 ~ 48.6V | 55.2 ~ 64.8V |
| | | Protection type : Shut down o/p voltage, re-power to recover | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +70°C (Refer to "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 | ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved | | | | | | |
| | ISOLATION LEVEL | Primary-Secondary:2xMOPP, Primary-Earth:1xMOPP | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH | | | | | | |
| | EMC EMISSION | Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B, EN61000-3-2,-3 | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61000-6-2, EN61204-3, heavy industry level, EN61204-3 medical level, criteria A | | | | | | |
| OTHERS | MTBF | 446.8K hrs min. MIL-HDBK-217F (25°C) | | | | | | |
| | DIMENSION | 127*76.2*31mm (L*W*H) | | | | | | |
| | PACKING | 0.26Kg; 63pcs/16.3Kg/1.35CUFT | | | | | | |
| NOTE | <ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf & 47µf 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 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. 6. Heat Sink HS1,HS2,HS3 can not be shorted. 7. Touch current was measured from primary input to DC output. | | | | | | | |

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 |
|---------|------------|-----------------------|--------------------------------|
| 1,2,3,4 | +V | JST VHR or equivalent | JST SVH-21T-P1.1 or equivalent |
| 5,6,7,8 | -V | | |

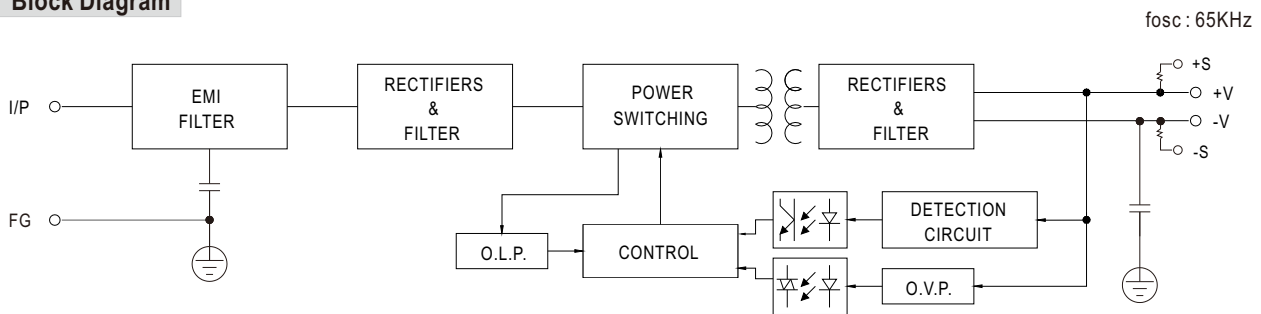
Remote Sense(CN3) : JST B2B-XH or equivalent

| Pin No. | Assignment | Mating Housing | Terminal |
|---------|------------|-----------------------|---------------------------------|
| 1 | RS+ | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2 | RS- | | |

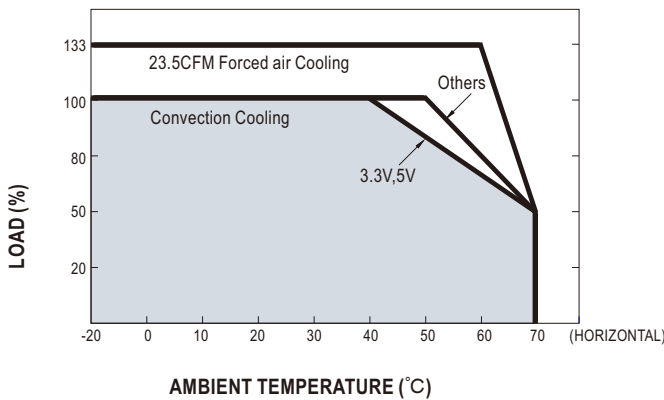
⚠ HS1,HS2,HS3 can not be shorted

⊥ : Grounding required

Block Diagram



Derating Curve



Output Derating VS Input Voltage

