

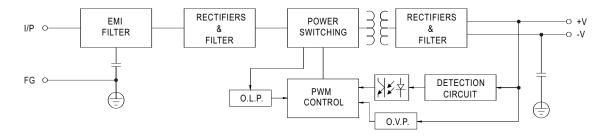
SPECIFICATION

| MODEL | | RSD-60H-3.3 | RSD-60H-5 | RSD-60H-12 | RSD-60H-24 | |
|-----------------|---|---|-------------------|------------|---|--|
| | DC VOLTAGE | 3.3V | 5V | 12V | 24V | |
| ОИТРИТ | RATED CURRENT | 12A | 12A | 5A | 2.5A | |
| | CURRENT RANGE | 0 ~ 12A | 0 ~ 12A | 0 ~ 5A | 0 ~ 2.5A | |
| | RATED POWER | 39.6W | 60W | 60W | 60W | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 80mVp-p | 50mVp-p | 50mVp-p | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±2.0% | ±2.0% | ±2.0% | |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.3% | ±0.2% | |
| | LOAD REGULATION | ±0.5% | ±0.5% ±0 | | ±0.2% | |
| | SETUP, RISE TIME | 100ms, 60ms at full load | | | | |
| | HOLD UP TIME (Typ.) | H-type comply with S2 level(10ms) @ full load | | | | |
| | VOLTAGE RANGE CONTINUOUS | 7 | | | | |
| | EFFICIENCY (Typ.) | 87% | 89% | 92.5% | 91.5% | |
| INPUT | DC CURRENT (Typ.) | 0.415A/110VDC | 0.62A/110V | 02.070 | 0.107 | |
| | INRUSH CURRENT (Typ.) | 20A/110VDC | | | | |
| | INNOON CORNENT (Typ.) | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 135% rated output power | | | | |
| | | Protection type: Constant current limiting, recovers automatically after fault condition is removed | | | | |
| | OVER VOLTAGE | 4.3 ~ 4.95V | | | | |
| | | Protection type: Shut down o/p voltage, re-power on to recover | | | | |
| | WORKING TEMP. | -40 ~ +55°C (no derating) ; +70°C @ 60% load by free air convection ; +70°C (no derating with external base plate) | | | | |
| ENVIRONMENT | WORKING HUMIDITY | 5 ~ 95% RH non-condensing | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH non-condensing | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~50°C) | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: compliance to IEC61373 | | | | |
| | SAFETY STANDARDS | Meet IEC60950-1 (LVD) | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVDC I/P-FG:2.5KV | /DC O/P-FG:2.5KVD | 0 | | |
| 04557//0 | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | |
| | | Parameter | Standard | | Test Level / Note | |
| | EMC EMISSION | Conducted | EN55011 | | Class A | |
| | | Conductor | EN55032 | | Class B | |
| | | Radiated | EN55011 | | Class A | |
| | | radiatod | EN55032 | | Class B | |
| SAFETY & | | Harmonic Current | EN6100-3-2 | 2 | Class A | |
| EMC (Note 4) | | Voltage Flicker | EN6100-3-3 | 3 | | |
| | EMC IMMUNITY | Parameter | Standard | | Test Level / Note | |
| | | ESD | EN61000-4 | -2 | Level 3, \pm 8KV air ; Level 3, \pm 6KV cor | |
| | | Radiated Field | EN61000-4 | -3 | Level X | |
| | | CCT / Downt | ENIC4000 4 | 4 | Level 3, 2KV at power | |
| | | EFT / Burst | EN61000-4 | -4 | Level 4, 2KV at signal | |
| | | Surge | EN61000-4 | -5 | Level 3,1KV Line-Line, Level 3, 2KV Line-E | |
| | | Conducted | EN61000-4 | -6 | Level 3 | |
| | RAILWAY STANDARD | Compliance to EN45545-2 for fire protection; Meet EN50155 / IEC60571 including IEC61373 for shock & vibration, EN50121-3-2 for EM | | | | |
| OTHERS | MTBF | 593.8K hrs min. MIL-HDBK-217F (25°C) | | | | |
| | DIMENSION | 128*60*25mm (L*W*H) | | | | |
| | PACKING | 0.29Kg; 48pcs/14.9Kg/0.76CUFT | | | | |
| NOTE | All parameters NOT specia Ripple & noise are measure Tolerance : includes set up The power supply is consided a 360mm*360mm metal plate perform these EMC tests, p. | ally mentioned are measured at 110VDC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on late with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) at external output capacitance should not exceed 5000uF. | | | | |



■ Block Diagram

fosc: 130KHz



■ Input Fuse

There is one fuse connected in series to the positive input line, which is used to protect against abnormal surge. Fuse specifications of each model are shown as below.

| Type | Fuse Type | Reference and Rating |
|------|-----------|------------------------|
| G | Time-Lag | CONQUE MST, 10A, 250V |
| L | Time-Lag | CONQUE MST, 5A, 250V |
| Н | Time-Lag | CONQUE MST, 2.5A, 250V |

■ Input Reverse Polarity Protection

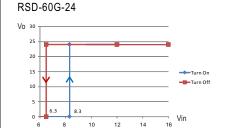
There is a MOSFET connected in series to the negative input line. If the input polarity is connected reversely, the MOSFET opens and there will be no output to protect the unit.

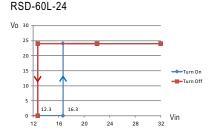
■ Input Range and Transient Ability

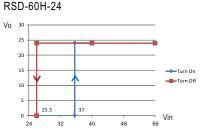
The series has a wide range input capability. With $\pm 40\%$ of rated input voltage, it can withstand that for 1 second.

■ Input Under-Voltage Protection

If input voltage drops below Vimin, the internal control IC shuts down and there is no output voltage. It recovers automatically when input voltage reaches above Vimin, please refer to the cruve below.







■ Inrush Current

Inrush current is suppressed by a resistor during the initial start-up, and then the resistor is bypassed by a MOSFET to reduce power consumption after accomplishing the start-up.