

■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty

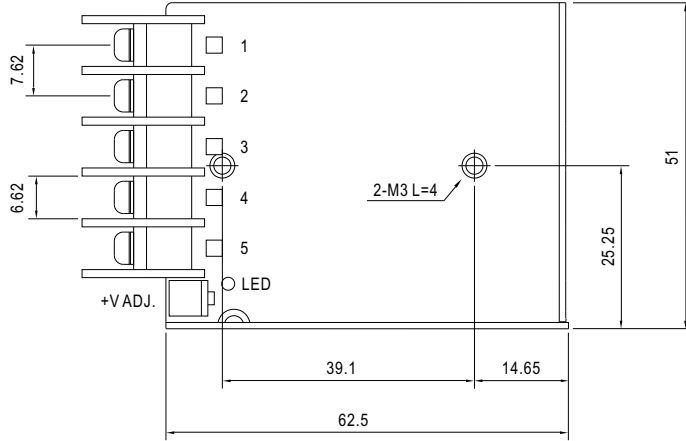


SPECIFICATION

| MODEL | RS-15-3.3 | RS-15-5 | RS-15-12 | RS-15-15 | RS-15-24 | RS-15-48 | |
|-----------------------|---|---|--------------|--------------|----------------|--------------|--------------|
| OUTPUT | DC VOLTAGE | 3.3V | 5V | 12V | 15V | 24V | 48V |
| | RATED CURRENT | 3A | 3A | 1.3A | 1A | 0.625A | 0.313A |
| | CURRENT RANGE | 0 ~ 3A | 0 ~ 3A | 0 ~ 1.3A | 0 ~ 1A | 0 ~ 0.625A | 0 ~ 0.313A |
| | RATED POWER | 9.9W | 15W | 15.6W | 15W | 15W | 15W |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 80mVp-p | 120mVp-p | 120mVp-p | 200mVp-p | 200mVp-p |
| | VOLTAGE ADJ. RANGE | 2.9 ~ 3.6V | 4.75 ~ 5.5V | 10.8 ~ 13.2V | 13.5 ~ 16.5V | 22 ~ 27.6V | 43.2 ~ 52.8V |
| | VOLTAGE TOLERANCE Note.3 | 3.0% | 2.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| | LINE REGULATION Note.4 | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% | 0.5% |
| | LOAD REGULATION Note.5 | 2.0% | 1.5% | 0.5% | 0.5% | 0.5% | 0.5% |
| | SETUP, RISE TIME | 1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load | | | | | |
| HOLD UP TIME (Typ.) | 70ms/230VAC 15ms/115VAC at full load | | | | | | |
| INPUT | VOLTAGE RANGE | 85 ~ 264VAC 120 ~ 370VDC | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | EFFICIENCY (Typ.) | 72% | 77% | 81% | 81% | 82% | 82% |
| | AC CURRENT (Typ.) | 0.35A/115VAC 0.25A/230VAC | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 65A/ 230VAC | | | | | |
| | LEAKAGE CURRENT | <2mA/ 240VAC | | | | | |
| PROTECTION | OVERLOAD | Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | |
| | OVER VOLTAGE | 3.8 ~ 4.45V | 5.75 ~ 6.75V | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 28.4 ~ 32.4V | 55.2 ~ 64.8V |
| | OVER TEMPERATURE | U1 Tj 140°C typically (U1) detect on main control IC Protection type : Shut down o/p voltage, recovers automatically after temperature goes down | | | | | |
| 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 ~ 50°C) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC (Note 6) | SAFETY STANDARDS | UL60950-1, TUV EN60950-1 approved | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC 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 25°C 70%RH | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B | | | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | | | | | |
| OTHERS | EMT IMMUNITY | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-1, light industry level, criteria A | | | | | |
| | MTBF | 1608.8Khrs min. MIL-HDBK-217F (25°C) | | | | | |
| | DIMENSION | 62.5*51*28mm (L*W*H) | | | | | |
| | PACKING | 0.13Kg; 108pcs/15Kg/0.71CUFT | | | | | |
| 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 0.1uF & 47uF parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load. 6. 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. | | | | | | |

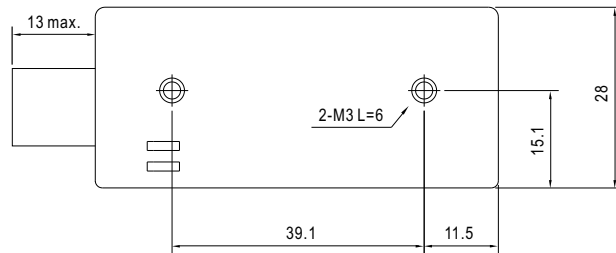
Mechanical Specification

Case No.971A Unit:mm

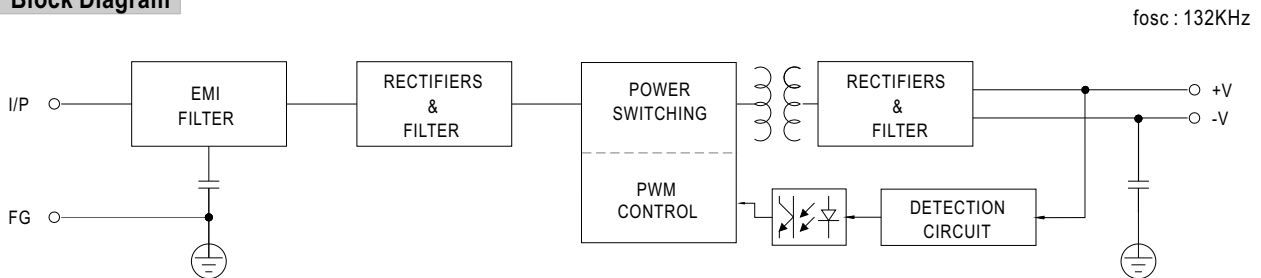


Terminal Pin No. Assignment

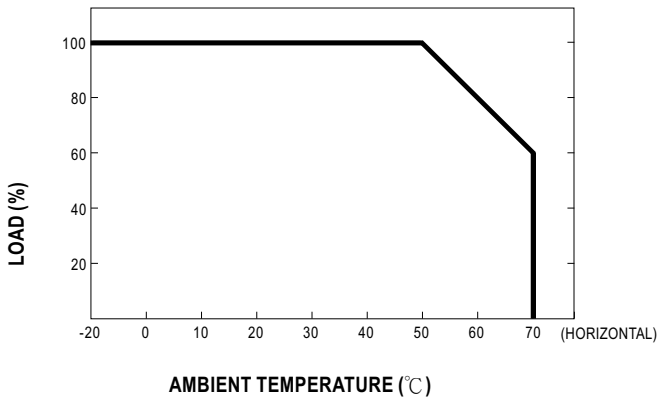
| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|--------------|
| 1 | AC/L | 4 | DC OUTPUT -V |
| 2 | AC/N | 5 | DC OUTPUT +V |
| 3 | FG \perp | | |



Block Diagram



Derating Curve



Output Derating VS Input Voltage

