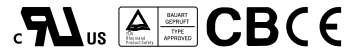


■ Features :

- Universal AC input / Full range
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- High reliability

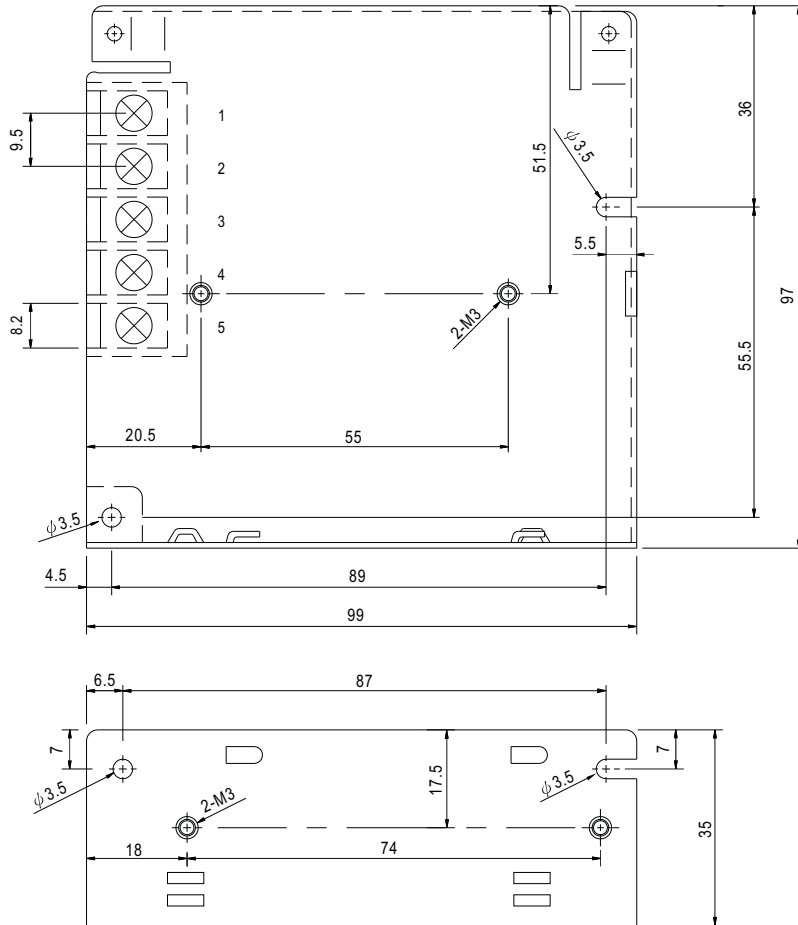


## SPECIFICATION

| MODEL                  | RS-50-3.3  | RS-50-5   | RS-50-12     | RS-50-15     | RS-50-24       | RS-50-48     |              |
|------------------------|--|---|--------------|--------------|----------------|--------------|--------------|
| OUTPUT                 | DC VOLTAGE   | 3.3V  | 5V           | 12V          | 15V            | 24V          | 48V          |
|                        | RATED CURRENT  | 10A   | 10A          | 4.2A         | 3.4A           | 2.2A         | 1.1A         |
|                        | CURRENT RANGE  | 0 ~ 10A   | 0 ~ 10A      | 0 ~ 4.2A     | 0 ~ 3.4A       | 0 ~ 2.2A     | 0 ~ 1.1A     |
|                        | RATED POWER  | 33W   | 50W          | 50.4W        | 51W            | 52.8W        | 52.8W        |
|                        | RIPPLE & NOISE (max.) Note.2   | 80mVp-p   | 80mVp-p      | 120mVp-p     | 120mVp-p       | 120mVp-p     | 200mVp-p     |
|                        | VOLTAGE ADJ. RANGE   | 3V ~ 3.6V   | 4.75 ~ 5.5V  | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 22 ~ 27.2V   | 42 ~ 54V     |
|                        | VOLTAGE TOLERANCE Note.3   | ±3.0%   | ±2.0%        | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%        |
|                        | LINE REGULATION  | ±0.5%   | ±0.5%        | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        |
| LOAD REGULATION        | ±2.0%  | ±1.0%   | ±0.5%        | ±0.5%        | ±0.5%          | ±0.5%        |              |
| SETUP, RISE, HOLD TIME | 500ms, 20ms, 50ms/230VAC      1200ms, 30ms, 10ms/115VAC at full load   |   |              |              |                |              |              |
| INPUT                  | VOLTAGE RANGE  | 88 ~ 264VAC      125 ~ 373VDC (300VAC peak 5sec. No damage)   |              |              |                |              |              |
|                        | FREQUENCY RANGE  | 47 ~ 63Hz   |              |              |                |              |              |
|                        | EFFICIENCY(Typ.)   | 72%   | 78%          | 81%          | 83%            | 84%          | 86%          |
|                        | AC CURRENT   | 1.3A/115VAC      0.8A/230VAC  |              |              |                |              |              |
|                        | INRUSH CURRENT(max.)   | COLD START 36A/230VAC   |              |              |                |              |              |
| LEAKAGE CURRENT        | <2mA / 240VAC  |   |              |              |                |              |              |
| PROTECTION             | OVER LOAD  | 110 ~ 150% rated output power<br>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 | 27.6 ~ 32.4V | 55.2 ~ 64.8V |
| ENVIRONMENT            | WORKING TEMP.  | -20 ~ +70°C (Refer to output load derating curve)   |              |              |                |              |              |
|                        | WORKING HUMIDITY   | 20 ~ 90% RH non-condensing  |              |              |                |              |              |
|                        | STORAGE TEMP., HUMIDITY  | -20 ~ +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 4)  | 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  |              |              |                |              |              |
|                        | EMI CONDUCTION & RADIATION   | Compliance to EN55022 (CISPR22) Class B   |              |              |                |              |              |
|                        | HARMONIC CURRENT   | Compliance to EN61000-3-2,-3  |              |              |                |              |              |
| OTHERS                 | EMC IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A              |              |              |                |              |              |
|                        | MTBF   | 228Khrs min.    MIL-HDBK-217F (25°C)  |              |              |                |              |              |
|                        | DIMENSION  | 99*97*35mm (L*W*H)  |              |              |                |              |              |
| NOTE                   | PACKING  | 0.36Kg; 36pcs/12.96Kg/0.7CUFT   |              |              |                |              |              |
|                        | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br/>                 2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.<br/>                 3. Tolerance : includes set up tolerance, line regulation and load regulation.<br/>                 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> |   |              |              |                |              |              |

■ Mechanical Specification

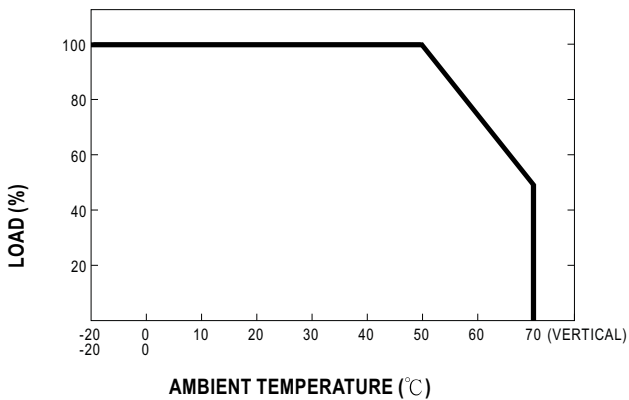
Case No. 905 Unit:mm



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 $\perp$ |         |              |

■ Output Derating



■ Output Derating VS Input Voltage

