

#### ■ Features :

- Protections: Short circuit/Over load/Over voltage
- 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

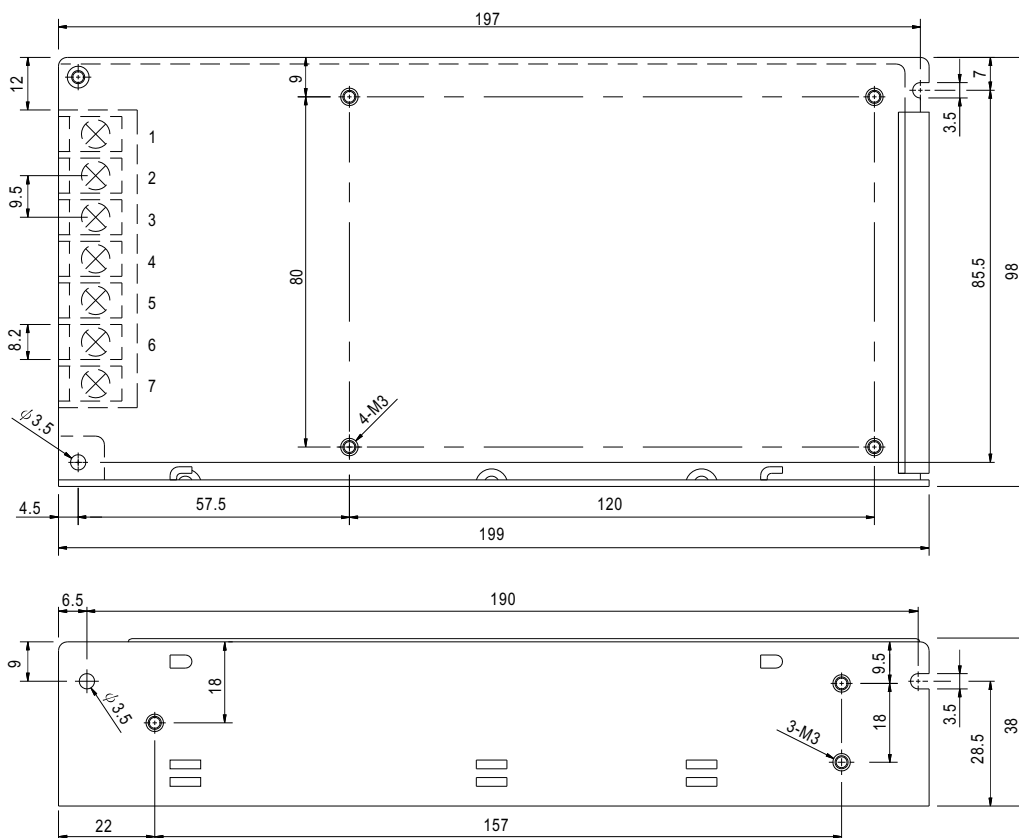


#### SPECIFICATION

| MODEL                                   |   | RS-150-3.3  | RS-150-5     | RS-150-12    | RS-150-15      | RS-150-24    | RS-150-48    |
|---|---|---|--------------|--------------|----------------|--------------|--------------|
| OUTPUT                                  | DC VOLTAGE  | 3.3V  | 5V           | 12V          | 15V            | 24V          | 48V          |
|   | RATED CURRENT   | 30A   | 26A          | 12.5A        | 10A            | 6.5A         | 3.3A         |
|   | CURRENT RANGE   | 0 ~ 30A   | 0 ~ 26A      | 0 ~ 12.5A    | 0 ~ 10A        | 0 ~ 6.5A     | 0 ~ 3.3A     |
|   | RATED POWER   | 99W   | 130W         | 150W         | 150W           | 156W         | 158.4W       |
|   | RIPPLE & NOISE (max.) <small>Note.2</small>   | 80mVp-p   | 80mVp-p      | 120mVp-p     | 120mVp-p       | 120mVp-p     | 200mVp-p     |
|   | VOLTAGE ADJ. RANGE  | 3.2V ~ 3.5V   | 4.75 ~ 5.5V  | 11.4 ~ 13.2V | 14.25 ~ 16.5V  | 22.8 ~ 26.4V | 45.6 ~ 52.8V |
|   | VOLTAGE TOLERANCE <small>Note.3</small>   | ±3.0%   | ±2.0%        | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%        |
|   | LINE REGULATION <small>Note.4</small>   | ±0.5%   | ±0.5%        | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        |
|   | LOAD REGULATION <small>Note.5</small>   | ±2.0%   | ±1.0%        | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        |
|   | SETUP, RISE TIME  | 800ms, 20ms/230VAC      1200ms, 30ms/115VAC at full load  |              |              |                |              |              |
| HOLD TIME (Typ.)                        | 28ms/230VAC      20ms/115VAC at full load   |   |              |              |                |              |              |
| INPUT                                   | VOLTAGE RANGE   | 88 ~ 132VAC / 176 ~ 264VAC selected by switch      248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage)        |              |              |                |              |              |
|   | FREQUENCY RANGE   | 47 ~ 63Hz   |              |              |                |              |              |
|   | EFFICIENCY(Typ.)  | 74%   | 78%          | 83%          | 84%            | 86%          | 87%          |
|   | AC CURRENT (Typ.)   | 3A/115VAC      2A/230VAC  |              |              |                |              |              |
|   | INRUSH CURRENT (Typ.)   | COLD START 40A/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 |
|   |   | Protection type : Hiccup mode, recovers automatically after fault condition is removed                                  |              |              |                |              |              |
| ENVIRONMENT                             | WORKING TEMP.   | -25 ~ +70℃ (Refer to output load derating curve)  |              |              |                |              |              |
|   | WORKING HUMIDITY  | 20 ~ 90% RH non-condensing  |              |              |                |              |              |
|   | STORAGE TEMP., HUMIDITY   | -40 ~ +85℃, 10 ~ 95% RH   |              |              |                |              |              |
|   | TEMP. COEFFICIENT   | ±0.03%/℃ (0 ~ 50℃)  |              |              |                |              |              |
|   | VIBRATION   | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes   |              |              |                |              |              |
| SAFETY & EMC<br><small>(Note 6)</small> | 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  |              |              |                |              |              |
|   | EMS IMMUNITY  | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A              |              |              |                |              |              |
| OTHERS                                  | MTBF  | 244KHrs min.    MIL-HDBK-217F (25℃)   |              |              |                |              |              |
|   | DIMENSION   | 199*98*38mm (L*W*H)   |              |              |                |              |              |
|   | PACKING   | 0.7Kg; 20pcs/15Kg/0.8CUFT   |              |              |                |              |              |
| NOTE                                    | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. Line regulation is measured from low line to high line at rated load.<br>5. Load regulation is measured from 0% to 100% rated load.<br>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.<br>7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. |   |              |              |                |              |              |

# Mechanical Specification

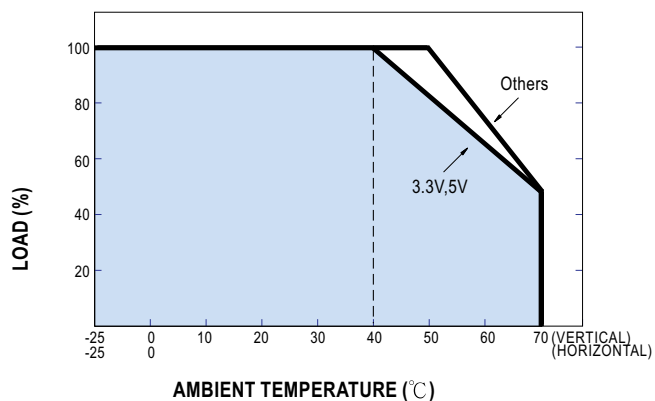
Case No. 902A Unit:mm



Terminal Pin. No Assignment

| Pin No. | Assignment | Pin No. | Assignment   |
|---------|------------|---------|--------------|
| 1       | AC/L       | 4,5     | DC OUTPUT -V |
| 2       | AC/N       | 6,7     | DC OUTPUT +V |
| 3       | FG $\perp$ |         |              |

# Output Derating



# Static Characteristics

