



- Features :
- \*Protections: Short circuit / Overload / 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

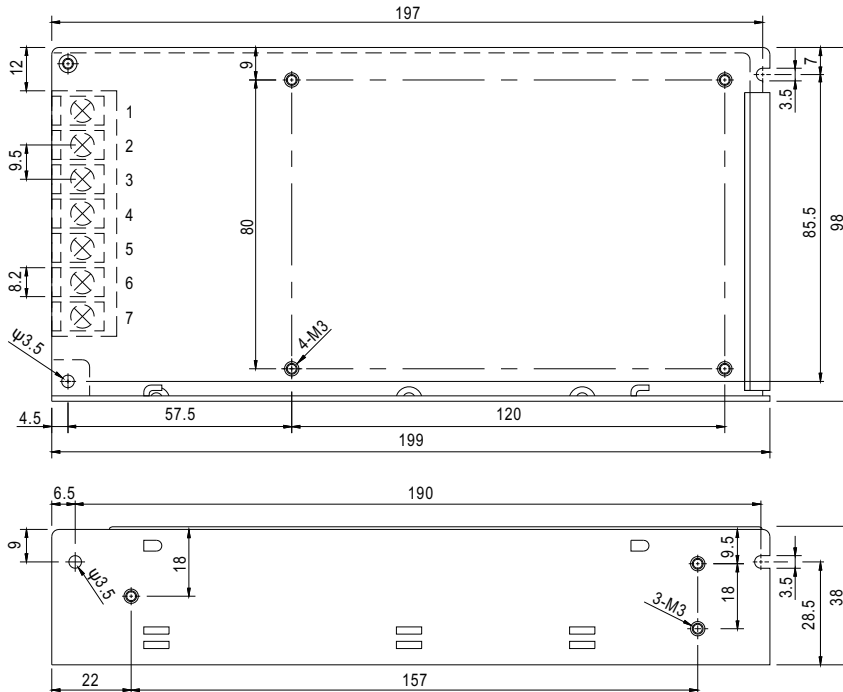


## SPECIFICATION

| 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.) Note.2              | 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 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%   | ±1.0%        | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        |
|                       | SETUP, RISE TIME                          | 800ms, 20ms/230VAC      1200ms, 30ms/115VAC at full load  |              |              |                |              |              |
| HOLD UP 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            | OVERLOAD Note.8                           | 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.                             | -25 ~ +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 ~ 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   |              |              |                |              |              |
|                       | EMC EMISSION                              | Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3   |              |              |                |              |              |
| OTHERS                | EMC IMMUNITY                              | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A   |              |              |                |              |              |
|                       | MTBF                                      | 244Khrs min.    MIL-HDBK-217F (25°C)  |              |              |                |              |              |
|                       | DIMENSION                                 | 199*98*38mm (L*W*H)   |              |              |                |              |              |
| NOTE                  | PACKING                                   | 0.7Kg; 20pcs/15Kg/0.8CUFT   |              |              |                |              |              |
|                       | NOTE                                      | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>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.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Line regulation is measured from low line to high line at rated load.</li> <li>5. Load regulation is measured from 0% to 100% rated load.</li> <li>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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>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.</li> <li>8. Extra consideration should be taken when selecting output wiring for 3.3V and 5V models. This is to prevent the protection modes for overload and short circuit from becoming constant power.</li> </ol> |              |              |                |              |              |

■ Mechanical Specification

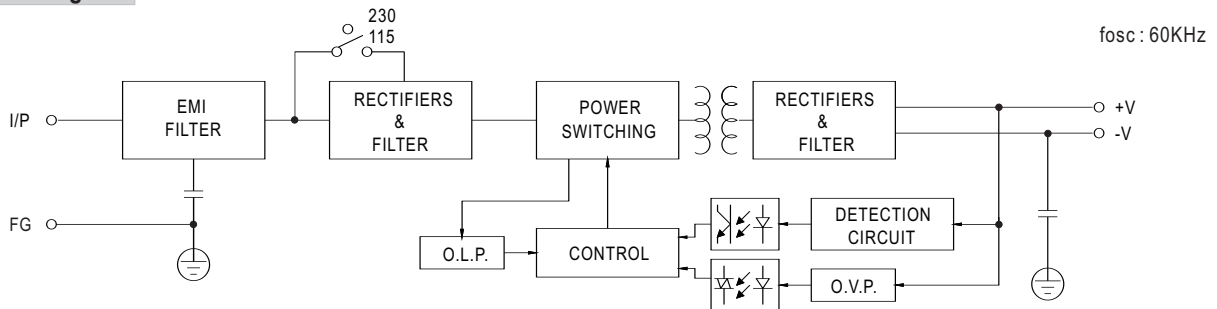
Case No. 902A Unit:mm



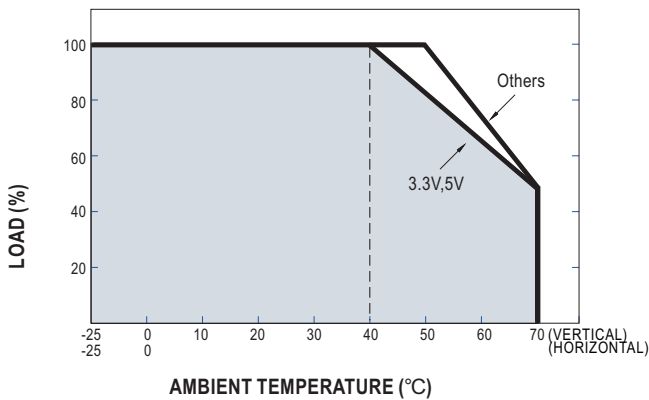
Terminal Pin No. Assignment

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

■ Block Diagram



■ Derating Curve



■ Static Characteristics

