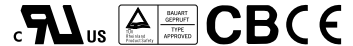


### ■ Features :

- Isolated output & GND for CH1,CH2
- Universal AC input / Full range
- 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

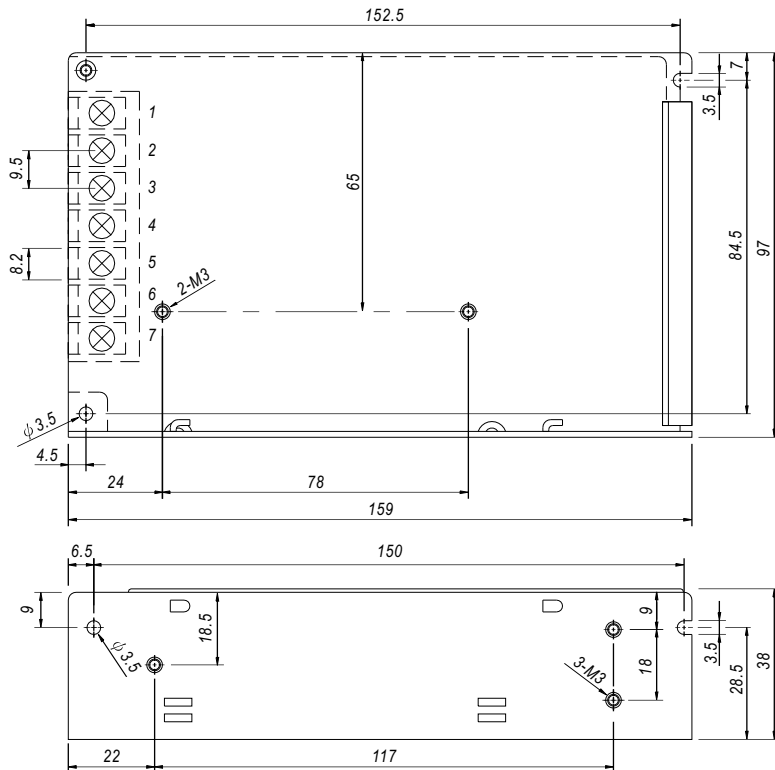


### SPECIFICATION

| MODEL                 |   | RID-85A   |          | RID-85B          |            |
|-----------------------|---|---|----------|------------------|------------|
| OUTPUT                | OUTPUT NUMBER   | CH1   | CH2      | CH1              | CH2        |
|                       | DC VOLTAGE  | 5V  | 12V      | 5V               | 24V        |
|                       | RATED CURRENT   | 8A  | 4A       | 8A               | 2A         |
|                       | CURRENT RANGE <small>Note.6</small>   | 2 ~ 10A   | 0.3 ~ 5A | 2 ~ 10A          | 0.3 ~ 2.5A |
|                       | RATED POWER <small>Note.6</small>   | 88W   |          | 88W              |            |
|                       | RIPPLE & NOISE (max.) <small>Note.2</small>   | 80mVp-p   | 120mVp-p | 80mVp-p          | 120mVp-p   |
|                       | VOLTAGE ADJ. RANGE  | CH1: 4.75 ~ 5.5V  |          | CH1: 4.75 ~ 5.5V |            |
|                       | VOLTAGE TOLERANCE <small>Note.3</small>   | ±2.0%   | ±8.0%    | ±2.0%            | ±5.0%      |
|                       | LINE REGULATION <small>Note.4</small>   | ±0.5%   | ±1.0%    | ±0.5%            | ±1.0%      |
|                       | LOAD REGULATION <small>Note.5</small>   | ±1.0%   | ±3.0%    | ±1.0%            | ±5.0%      |
| SETUP, RISE TIME      | 500ms, 20ms/230VAC    1200ms, 30ms/115VAC at full load  |   |          |                  |            |
| HOLD UP TIME (Typ.)   | 100ms/230VAC    18ms/115VAC at full load  |   |          |                  |            |
| INPUT                 | VOLTAGE RANGE   | 88 ~ 264VAC    125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)   |          |                  |            |
|                       | FREQUENCY RANGE   | 47 ~ 63Hz   |          |                  |            |
|                       | EFFICIENCY(Typ.)  | 80%   |          | 81%              |            |
|                       | AC CURRENT (Typ.)   | 2.5A/115VAC    1.5A/230VAC  |          |                  |            |
|                       | INRUSH CURRENT (Typ.)   | COLD START 40A/230VAC   |          |                  |            |
| LEAKAGE CURRENT       | <2mA / 240VAC   |   |          |                  |            |
| PROTECTION            | OVERLOAD  | 110 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |          |                  |            |
|                       | OVER VOLTAGE  | CH1: 5.75 ~ 6.75V<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed             |          |                  |            |
| 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) on +5V output  |          |                  |            |
| VIBRATION             | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes   |   |          |                  |            |
| SAFETY & EMC (Note 7) | 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   |          |                  |            |
| EMC IMMUNITY          | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A   |   |          |                  |            |
| OTHERS                | MTBF  | 239.4Khrs min.    MIL-HDBK-217F (25°C)  |          |                  |            |
|                       | DIMENSION   | 159*97*38mm (L*W*H)   |          |                  |            |
|                       | PACKING   | 0.6Kg; 24pcs/15.4Kg/0.7CUFT   |          |                  |            |
| 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 20% to 100% rated load, and other output at 60% rated load.</li> <li>6. Each output can work within current range. But total output power can't exceed rated output power.</li> <li>7. 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>8. 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> </ol> |   |          |                  |            |

Case No. 901C Unit:mm

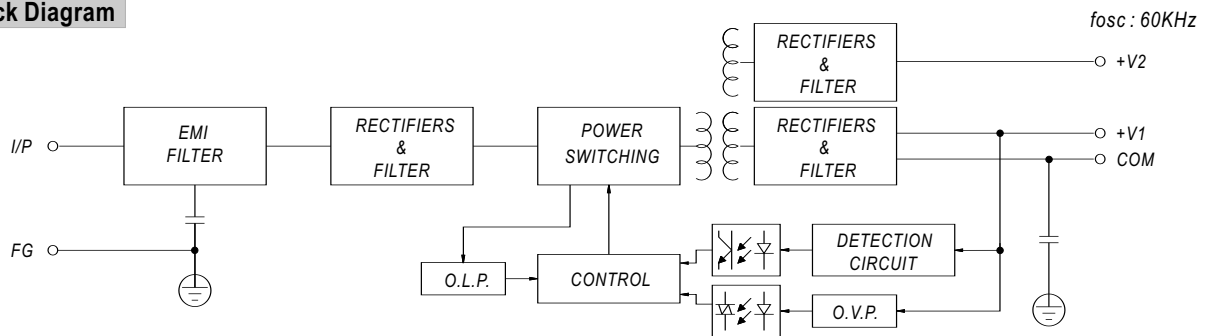
**Mechanical Specification**



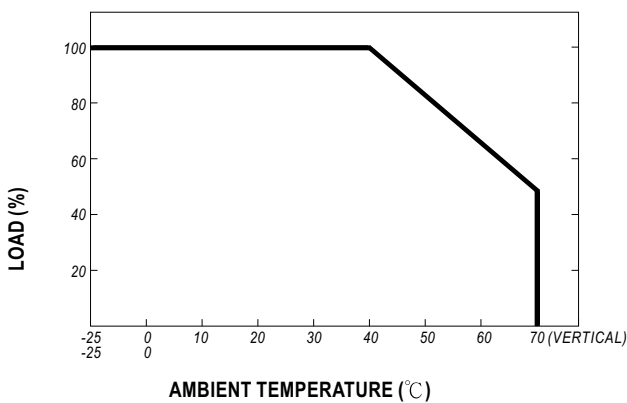
**Terminal Pin No. Assignment**

| Pin No. | Assignment   | Pin No. | Assignment    |
|---------|--------------|---------|---------------|
| 1       | AC/L         | 5       | DC OUTPUT +V2 |
| 2       | AC/N         | 6       | DC OUTPUT G1  |
| 3       | FG $\perp$   | 7       | DC OUTPUT +V1 |
| 4       | DC OUTPUT G2 |         |               |

**Block Diagram**



**Derating Curve**



**Static Characteristics**

