



## ■ 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

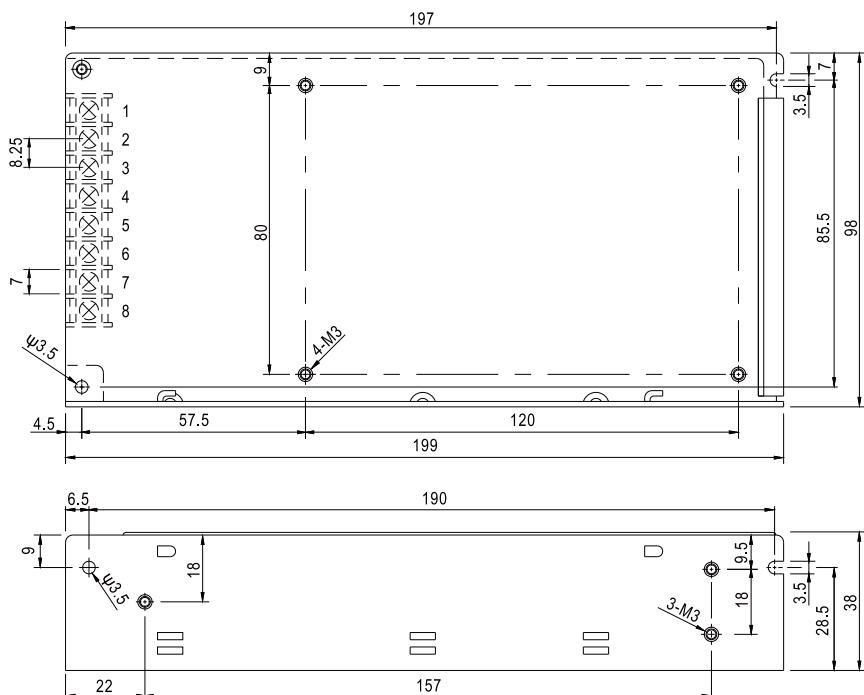
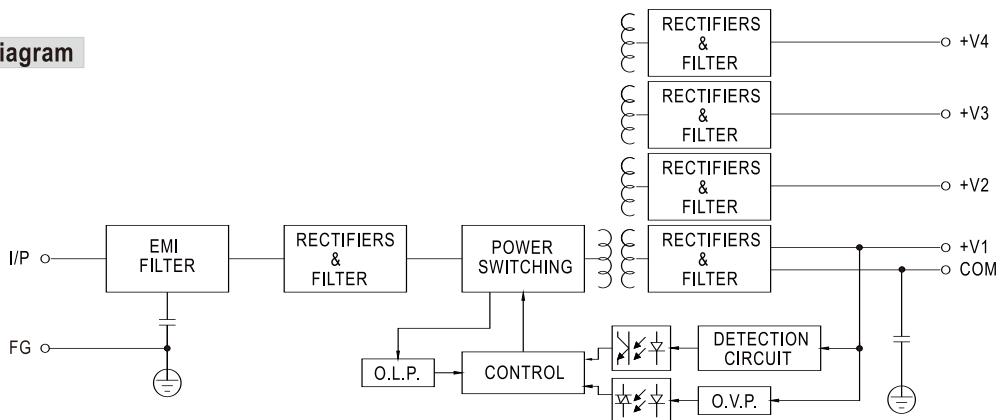
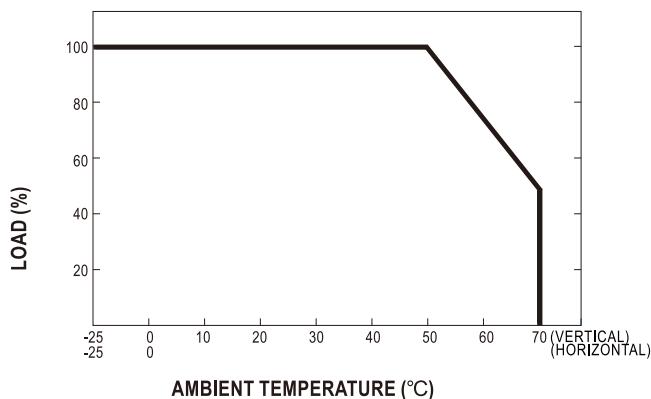
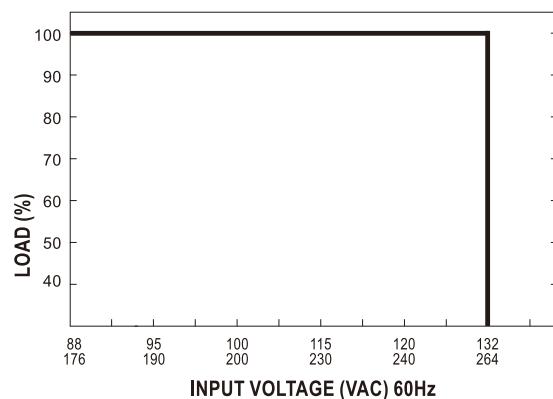
## SPECIFICATION



| MODEL   | RQ-125B                      |  |          |         | RQ-125C |   |          |         | RQ-125D |  |          |          |         |
|---|------------------------------|--|----------|---------|---------|---|----------|---------|---------|--|----------|----------|---------|
| OUTPUT  | OUTPUT NUMBER                | CH1  | CH2      | CH3     | CH4     | CH1   | CH2      | CH3     | CH4     | CH1  | CH2      | CH3      | CH4     |
|   | DC VOLTAGE                   | 5V   | 12V      | -5V     | -12V    | 5V  | 15V      | -5V     | -15V    | 5V   | 12V      | 24V      | -12V    |
|   | RATED CURRENT                | 11A  | 4.5A     | 1A      | 0.5A    | 10A   | 4A       | 1A      | 0.5A    | 8A   | 2.5A     | 2A       | 0.5A    |
|   | CURRENT RANGE Note.6         | 0 ~ 12A  | 0 ~ 4.5A | 0 ~ 1A  | 0 ~ 1A  | 0 ~ 12A   | 0 ~ 4A   | 0 ~ 1A  | 0 ~ 1A  | 0 ~ 12A  | 0 ~ 4A   | 0 ~ 2.5A | 0 ~ 1A  |
|   | RATED POWER Note.6           | 120W   |          |         |         | 122.5W  |          |         |         | 124W   |          |          |         |
|   | ripple & noise (max.) Note.2 | 80mVp-p  | 120mVp-p | 80mVp-p | 80mVp-p | 80mVp-p   | 120mVp-p | 80mVp-p | 80mVp-p | 80mVp-p  | 120mVp-p | 150mVp-p | 80mVp-p |
|   | VOLTAGE ADJ. RANGE           | CH1: 4.75 ~ 5.5V   |          |         |         | CH1: 4.75 ~ 5.5V  |          |         |         | CH1: 4.75 ~ 5.5V   |          |          |         |
|   | VOLTAGE TOLERANCE Note.3     | ±2.0%  | +10,-1%  | +6,-10% | ±5.0%   | ±2.0%   | +10,-1%  | +6,-10% | ±5.0%   | ±2.0%  | +10,-1%  | ±8.0%    | ±5.0%   |
|   | LINE REGULATION Note.4       | ±0.5%  | ±1.0%    | ±1.0%   | ±1.0%   | ±0.5%   | ±1.0%    | ±1.0%   | ±1.0%   | ±0.5%  | ±1.0%    | ±1.0%    | ±1.0%   |
|   | LOAD REGULATION Note.5       | ±1.0%  | ±3.0%    | ±6.0%   | ±2.0%   | ±1.0%   | ±3.0%    | ±6.0%   | ±2.0%   | ±1.0%  | ±3.0%    | ±6.0%    | ±2.0%   |
| INPUT   | SETUP, RISE TIME             | 500ms, 20ms/230VAC   |          |         |         | 1200ms, 30ms/115VAC at full load                              |          |         |         |  |          |          |         |
|   | HOLD UP TIME (Typ.)          | 25ms/230VAC  |          |         |         | 30ms/115VAC at full load                                      |          |         |         |  |          |          |         |
|   | VOLTAGE RANGE                | 88 ~ 132VAC / 176 ~ 264VAC selected by switch  |          |         |         | 248 ~ 373VDC(Withstand 300VAC surge for 5sec. Without damage) |          |         |         |  |          |          |         |
|   | FREQUENCY RANGE              | 47 ~ 63Hz  |          |         |         |   |          |         |         |  |          |          |         |
|   | EFFICIENCY (Typ.)            | 77%  |          |         |         | 78%   |          |         |         | 80%  |          |          |         |
| PROTECTION  | AC CURRENT (Typ.)            | 3A/115VAC  |          |         |         | 2A/230VAC   |          |         |         |  |          |          |         |
|   | INRUSH CURRENT (Typ.)        | COLD START 50A/230VAC  |          |         |         |   |          |         |         |  |          |          |         |
|   | LEAKAGE CURRENT              | <2mA / 240VAC  |          |         |         |   |          |         |         |  |          |          |         |
| ENVIRONMENT   | OVERLOAD                     | 110 ~ 150% rated output power  |          |         |         |   |          |         |         |  |          |          |         |
|   |                              | Protection type : Hiccup mode, recovers automatically after fault condition is removed                           |          |         |         |   |          |         |         |  |          |          |         |
| SAFETY & EMC (Note 7)   | OVER VOLTAGE                 | CH1: 5.75 ~ 6.75V  |          |         |         |   |          |         |         | Protection type : Hiccup mode, recovers automatically after fault condition is removed |          |          |         |
|   |                              |  |          |         |         |   |          |         |         |  |          |          |         |
| OTHERS  | WORKING TEMP.                | -25 ~ +70°C (Refer to "Derating Curve")  |          |         |         |   |          |         |         |  |          |          |         |
|   | WORKING HUMIDITY             | 20 ~ 90% RH non-condensing   |          |         |         |   |          |         |         |  |          |          |         |
| NOTE  | 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 STANDARDS             | UL62368-1, TUV EN62368-1, EAC TP TC 004 approved   |          |         |         |   |          |         |         |  |          |          |         |
|   | WITHSTAND VOLTAGE            | I/P-O/P:3KVAC I/P-FG:2KVAC 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 EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020   |          |         |         |   |          |         |         |  |          |          |         |
|   | EMC IMMUNITY                 | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020 |          |         |         |   |          |         |         |  |          |          |         |
| OTHERS  | MTBF                         | 203.1Khrs min. MIL-HDBK-217F (25°C)  |          |         |         |   |          |         |         |  |          |          |         |
|   | DIMENSION                    | 199*98*38mm (L*W*H)  |          |         |         |   |          |         |         |  |          |          |         |
|   | PACKING                      | 0.7Kg; 20pcs/14Kg/0.8CUFT  |          |         |         |   |          |         |         |  |          |          |         |
| 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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 20% to 100% rated load, and other output at 60% rated load.<br>6. Each output can work within current range. But total output power can't exceed rated output power.<br>7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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." (available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> )<br>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.<br>9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). |                              |  |          |         |         |   |          |         |         |  |          |          |         |

**Mechanical Specification**

Case No. 902 Unit:mm


**Block Diagram**

**Derating Curve**

**Static Characteristics**


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