



85W Quad Output Switching Power Supply

series



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
- 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





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SPECIFICATION

| MODEL | | RQ-85B | | | | RQ-85C | | | | RQ-85D | | | |
|-----------------------------|--|---|------------|-----------|------------------|-------------|----------|------------------|-------------|------------|--------------|------------|--------|
| ОИТРИТ | DC VOLTAGE | 5V | 12V | -5V | -12V | 5V | 15V | -5V | -15V | 5V | 12V | 24V | -12V |
| | RATED CURRENT | 7A | 3.1A | 0.5A | 0.5A | 7A | 2.5A | 0.5A | 0.5A | 6A | 2A | 1A | 0.5A |
| | CURRENT RANGE Note.6 | 2~10A | 0.3 ~ 4A | 0 ~ 1A | 0 ~ 1A | 2 ~ 10A | 0.3 ~ 4A | 0 ~ 1A | 0 ~ 1A | 2 ~ 10A | 0.3~4A | 0.1 ~ 1.5A | 0~1A |
| | | 80.7W | | | 82.5W | | | 84W | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p | 100mVp-r | 80mVp-p | 80mVp-p | 120mVp-r | 100mVp-p | 80mVp-p | 80mVp-p | 120mVp-p | 150mVp-p | 80mVp- |
| | VOLTAGE ADJ. RANGE | CH1: 4.75 ~ 5.5V | | | CH1: 4.75 ~ 5.5V | | | CH1: 4.75 ~ 5.5V | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | +7,-3% | ±8.0% | ±5.0% | ±2.0% | +3,-7% | ±8.0% | ±5.0% | ±2.0% | +7,-3% | ±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% | ±5.0% | ±2.0% |
| | SETUP, RISE, HOLD TIME | | 0ms, 50ms/ | 230VAC | 1200m | s, 30ms, 10 | ms/115VA | C at full load | 1 | | 1 | MAN | - 400 |
| INPUT | VOLTAGE RANGE | 88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) | | | | | | | | | 1.70 | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | 111 | XXI 10 | | | |
| | EFFICIENCY(Typ.) | 76% | ~~1 C' | O_{N_2} | -TX | 77% | NINN | -01 | CON | 78% | | WW | 14. |
| | AC CURRENT | 2.5A/115VAC 1.5A/230VAC | | | | | | | | | | | |
| | INRUSH CURRENT(max.) | COLD START 40A/230VAC | | | | | | | | | | | |
| | LEAKAGE CURRENT | <2mA/ 240VAC | | | | | | | | | | | |
| PROTECTION | OVER LOAD | 110 ~ 150% rated output power | | | | | | | - W | | NWY | | |
| | | Protection type: Hiccup mode, recovers automatically after fault condition is removed CH1: 5.75 ~ 6.75V | | | | | | | | | | | |
| | OVER VOLTAGE | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP | -25 ~ +70°C (Refer to output load derating curve) | | | | | | | | | | | |
| | WORKING TEMP. WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | | | | |
| | | -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 | 1/P-O/P:3KVAC 1/P-FG:1.5KVAC 0/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 | | | | | | | | | XI | | |
| | EMS IMMUNITY | | | ~ | . 007 | FNV50204 | FN61000 | -6-2 (FN500 |)82-2) heav | v industry | level criter | ia A | 1 |
| OTHERS | MTBF | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A 206.8Khrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | |
| | DIMENSION | | 88mm (L*W | | (200) | - 00 | Mr. | «1 | - T | NW. | J-V | | |
| | PACKING | | pcs/15.4Kg | | 1100 | 7. | TIME | N | | | | | |
| NOTE | All parameters NOT specia Ripple & noise are measure Tolerance : includes set up Line regulation is measurer Load regulation is measure Each output can work withing | It were the component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets. | | | | | | | | | | | |

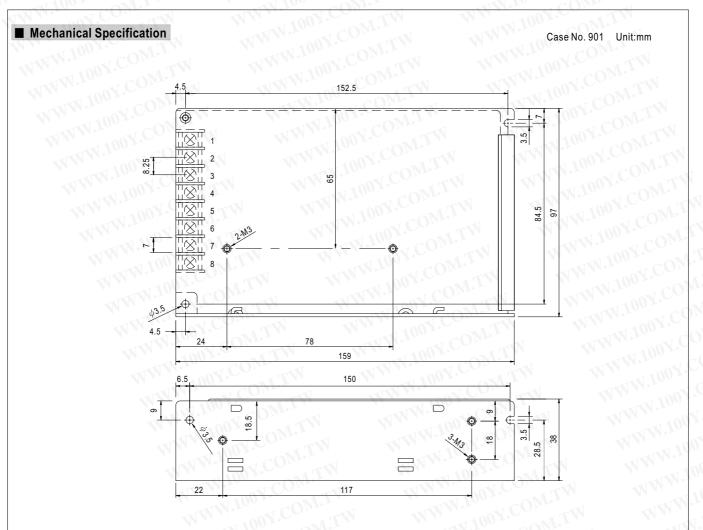
- 7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets
- 8. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.





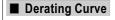
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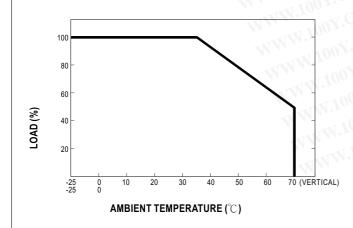
RQ-85 series



Terminal Pin. No Assignment

| | Pin No. | Assignment | Pin No. | Assignment | Pin No. | Assignment | | | | |
|--|---------|------------|---------|---------------|---------|---------------|--|--|--|--|
| | 1 | AC/L | 4 | DC OUTPUT -V4 | 7 | DC OUTPUT COM | | | | |
| | 2 | AC/N | 5 | DC OUTPUT V3 | 8 | DC OUTPUT +V1 | | | | |
| | 3 | FG ≟ | 6 | DC OUTPUT +V2 | ~ ~ (| M. I | | | | |





■ Static Characteristics

