



**SPECIFICATION** 

### 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℃ 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







### MODEL RQ-50B RQ-50C **RQ-50D OUTPUT NUMBER** CH1 CH2 CH3 CH4 CH<sub>1</sub> CH<sub>2</sub> CH3 CH4 CH1 CH2 CH3 CH4 DC VOLTAGE 5V 12V -5V -12V 5V -15V 5V RATED CURRENT 5A 1A 0.5A 0.5A 5A 1A 0.5A 0.5A 3A 0.9A 0.9A 0.5A **CURRENT RANGE** 0.5 ~ 6A 0.2 ~ 1.5A 0 ~ 1A 0 ~ 1A 0.5 ~ 6A 0.2 ~ 1.5A 0 ~ 1A 0 ~ 1A $0.5 \sim 6A$ 0.2 ~ 1.5A 0.1 ~ 1A 0~1A RATED POWER 45.5W 50W 53 4W RIPPLE & NOISE (max.) Note.2 80mVp-p | 120mVp-p | 100mVp-p | 80mVp-p 80mVp-p | 120mVp-p | 100mVp-p | 80mVp-p 80mVp-p | 120mVp-p | 180mVp-p | 80mVp-p **OUTPUT** VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V CH1: 4.75 ~ 5.5V CH1: 4 75 ~ 5 5V **VOLTAGE TOLERANCE Note.3** ±2.0% ±6.0% ±2.0% ±2.0% ±2.0% ±6.0% ±2.0% ±2.0% ±2.0% ±6.0% +7,-5% ±2.0% LINE REGULATION ±0.5% ±1.5% +0.5% +0.5% +0.5% +1.5% +0.5% +0.5% +0.5% +1.5% +2 0% +0.5% Note.4 LOAD REGULATION +0.5% ±3.0% ±1.0% +1.0% +0.5% +3.0% +1 0% +1.0% +0.5% +3.0% +3.0% ±1.0% Note.5 SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load HOLD TIME (Typ.) 60ms/230VAC 10ms/115VAC at full load 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) **VOLTAGE RANGE** 88 ~ 264VAC **FREQUENCY RANGE** 47 ~ 63Hz 79% **EFFICIENCY (Typ.)** 74% 75% INPUT AC CURRENT (Typ.) 1.3A/115VAC 0 8A/230VAC **INRUSH CURRENT (Typ.)** COLD START 36A/230VAC LEAKAGE CURRENT <2mA / 240VAC 110 ~ 150% rated output power **OVER LOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** CH1: 5.75 ~ 6.75\ **OVER VOLTAGE** Protection type: Hiccup mode, recovers automatically after fault condition is removed **WORKING TEMP** -25 ~ +70°C (Refer to output load derating curve) 20 ~ 90% RH non-condensing **WORKING HUMIDITY ENVIRONMENT** STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH $\pm 0.03\%$ /°C (0 ~ 50°C)on +5V output TEMP. COEFFICIENT VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes 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 SAFETY & **EMI CONDUCTION & RADIATION** Compliance to EN55022 (CISPR22) Class B **FMC** (Note 6) 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 MTBF 162.9Khrs min. MIL-HDBK-217F (25°C) OTHERS DIMENSION 99\*97\*36mm (L\*W\*H) 0.41Kg; 45pcs/19.5Kg/0.9CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. NOTE 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load.

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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

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**FMC** directives

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# Mechanical Specification Case No. 905B Unit.mm

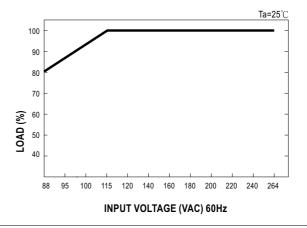
Terminal Pin. No Assignment

· ·					
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		

### **■** Output Derating

## 100 80 60 20 -25 0 10 20 30 40 50 60 70 (VERTICAL) AMBIENT TEMPERATURE (°C)

## ■ Output Derating VS Input Voltage



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