

SPECIFICATION



■ Features :

- 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







MODEL RQ-50C RQ-50B RQ-50D **OUTPUT NUMBER** CH1 CH2 CH3 CH4 CH1 CH2 CH3 CH4 CH1 CH2 СН3 CH4 DC VOLTAGE 5V 12V -5V -12V 5V 15V -5V -15V 5V 12V 24V -12V RATED CURRENT 5A 1A 0.5A 0.5A 5A 0.5A 0.5A 3A 0.9A 0.9A 0.5A 1A **CURRENT RANGE** 0 ~ 6A 0~ 1.5A 0 ~ 1A 0 ~ 1A $0 \sim 6A$ 0 ~ 1.5A 0 ~ 1A 0 ~ 1A 0~6A 0 ~ 1.5A 0 ~ 1A 0~1A RATED POWER 45.5W 50W 53.4W RIPPLE & NOISE (max.) Note.2 | 80mVp-p | 120mVp-p| 100mVp-p|120mVp-p| 80mVp-p | 120mVp-p| 100mVp-p|120mVp-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** ±3.0% ±6.0% ±2.0% ±6.0% ±3.0% ±2.0% ±7.0% ±3.0% +3.0% ±2.0% ±7.0% +3.0% LINE REGULATION ±0.5% ±0.5% ±0.5% ±1.5% ±0.5% ±0.5% ±0.5% ±1.5% ±2.0% ±0.5% Note.4 ±1.5% ±0.5% LOAD REGULATION ±3.0% ±3.0% ±3.0% Note.5 ±0.5% ±1.0% ±1.0% ±0.5% ±3.0% ±1.0% ±1.0% ±0.5% ±1.0% SETUP, RISE TIME 1200ms, 30ms/115VAC at full load 500ms, 20ms/230VAC HOLD UP 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 74% 77% EFFICIENCY (Typ.) 73% INPUT AC CURRENT (Typ.) 1.3A/115VAC 0.8A/230VAC INRUSH CURRENT (Typ.) COLD START 48A/230VAC LEAKAGE CURRENT <2mA / 240VAC 110 ~ 150% rated output power OVERLOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed PROTECTION CH1: 5.75 ~ 6.75V OVER VOLTAGE Protection type: Hiccup mode, recovers automatically after fault condition is removed WORKING TEMP. -25 ~ +70°C (Refer to "Derating Curve") WORKING HUMIDITY 20 ~ 90% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH ENVIRONMENT | STORAGE TEMP., HUMIDITY ±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 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 SAFETY & ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH **EMC** EMC EMISSION (Note 6) 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 MTRF 162,9Khrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 99*97*36mm (L*W*H) PACKING 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. 6. 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

7. 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).

perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)



