## RT-50 series 50W Triple Output Switching Power Supply





**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<sup>o</sup>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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## MODEL RT-50D RT-50A RT-50B RT-50C **OUTPUT NUMBER** CH1 CH2 CH3 CH1 CH<sub>2</sub> CH3 CH1 CH2 CH<sub>3</sub> CH1 CH2 СНЗ DC VOLTAGE 12V -5V 5V 15V 5V 12V RATED CURRENT 4A 2A 0.5A 4A 2A 0.5A 4A 1 5A 0.5A 3A 1A 1A 0.1 ~ 1A CURRENT RANGE 0.5 ~ 5A 0.2 ~ 2.5A 0.1 ~ 1A 0.5 ~ 5A 0.2 ~ 2.5A 0.1 ~ 1A 0.5 ~ 5A 0.2 ~ 2A 0.5 ~ 5A 0.2 ~ 1.5A 0.1 ~ 1A RATED POWER 46.5W 50W 50W 51W RIPPLE & NOISE (max.) Note.2 80mVp-p | 120mVp-p | 120mV OUTPUT **VOLTAGE ADJ. RANGE** CH1: 4.75 ~ 5.5V 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% ±6.0% ±2.0% +8,-4% ±2.0% ±2.0% + 8,-4% ±6.0% +2.0% LINE REGULATION ±1.5% ±0.5% ±2.0% +0.5% +0.5% +0.5% +1.5% +0.5% +0.5% +1.5% +0.5% +2 0% Note.4 ±4.0% LOAD REGULATION +1 0% ±3.0% +1.0% +1.0% +3.0% +1 0% +1.0% +3.0% +1.0% +1 0% +3.0% Note.5 1200ms, 30ms/115VAC at full load SETUP, RISE TIME 500ms, 20ms/230VAC HOLD UP TIME (Typ.) 60ms/230VAC 10ms/115VAC at full load **VOLTAGE RANGE** 88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) FREQUENCY RANGE 47 ~ 63Hz 80% **EFFICIENCY (Typ.)** 77% 77% 78% INPUT 0.8A/230VAC AC CURRENT (Typ.) 1.3A/115VAC **INRUSH CURRENT (Typ.)** COLD START 36A/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 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 **SAFETY &** ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC EMI CONDUCTION & RADIATION** Compliance to EN55022 (CISPR22) Class B (Note 6) HARMONIC CURRENT **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 169.2Khrs min. MIL-HDBK-217F (25°C° **OTHERS** DIMENSION 99\*97\*36mm (L\*W\*H) 0.41Kg; 45pcs/19.5Kg/0.9CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.

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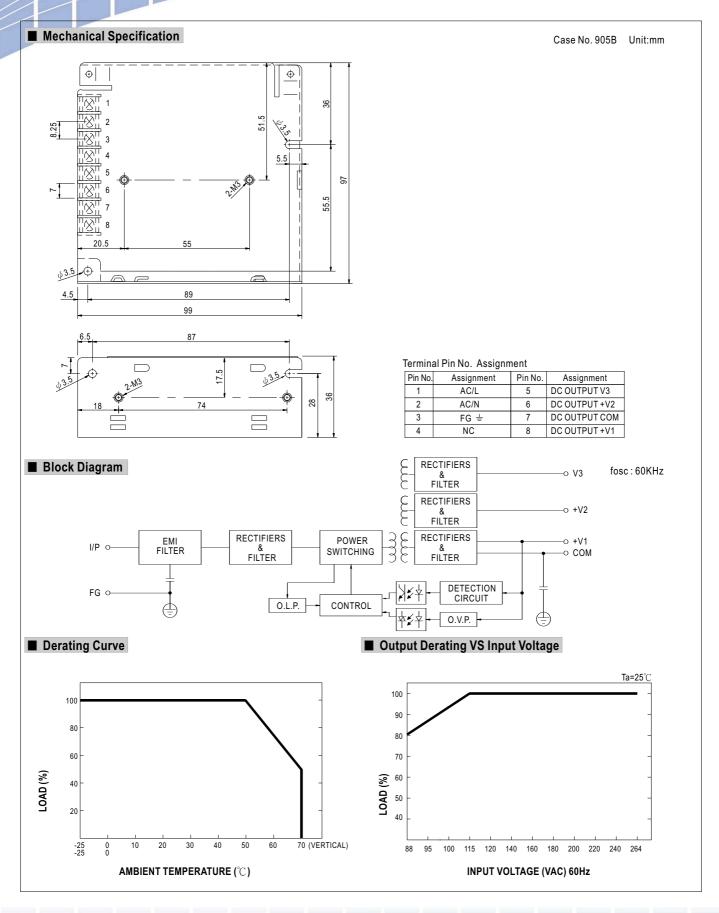
6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets

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5. Load regulation is measured from 0% to 100% rated load.

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