User's Manual



SPECIFICATION



MW Search: https://www.meanwell.com/serviceGTIN.aspx

- 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 RT-50A RT-50B RT-50C RT-50D **OUTPUT NUMBER** CH1 CH2 СНЗ CH1 CH2 CH3 CH1 CH2 СНЗ CH₁ CH2 СНЗ DC VOLTAGE 5V 12V -12V 15V -15V 24V 12V RATED CURRENT 4A 2A 0 5A 4A 2A 0.5A 4A 3A 1A 1A **CURRENT RANGE** 0 ~ 5A 0 ~ 2.5A 0 ~ 1A 0 ~ 5A 0 ~ 2.5A 0 ~ 1A 0 ~ 5A 0 ~ 2A 0 ~ 1A 0 ~ 5A 0 ~ 1.5A 0 ~ 1A Note.3 RATED POWER 46.5W 50W 50W 51W RIPPLE & NOISE (max.) Note.2 80mVp-p | 120mVp-p | 100mVp-p 80mVp-p | 120mVp-p | 120mVp-p | 80mVp-p | 120mVp-p | 120mVp-p 80mVp-p | 150mVp-p | 120mVp-p 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 ±8.0% ±2.0% ±8.0% ±2.0% ±2.0% ±8.0% ±6.0% +2 0% +3.0% +3.0% +8.0% +3.0% LINE REGULATION ±0.5% ±1.5% ±0.5% ±1.5% ±0.5% ±2.0% ±2.0% +0.5% +15% +0.5% +0.5% +0.5% Note.4 LOAD REGULATION ±4.0% +1 0% +3.0% +1 0% +1 0% +3.0% +1 0% +1 0% +3.0% +1.0% +1 0% +3.0% Note.5 SETUP. RISE TIME 1200ms, 30ms/115VAC at full load 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 **EFFICIENCY (Typ.)** 75.5% 75.5% 76% 78% 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") 20 ~ 90% RH non-condensing WORKING HUMIDITY **ENVIRONMENT** STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C)on +5V output 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes **VIBRATION** SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004, BIS IS13252(Part1): 2010/IEC 60950-1:2005 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 **FMC** (Note 6) Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 **EMC EMISSION EMC IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035,BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, EAC TP TC 020 **MTBF** 2788.1K hrs min. Telcordia SR-332 (Bellcore); 504.7K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 99*97*36mm (L*W*H) 0.41Kg; 45pcs/19.5Kg/0.94CUFT **PACKING**

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation, when multi-channel output, it is recommended that CH1 load > 10%.
- 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 perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 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).
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