



GTIN CODE

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









User's Manual

MODEL RD-50A RD-50B **OUTPUT NUMBER** CH1 CH2 CH1 CH2 DC VOLTAGE 5V 12V 24V RATED CURRENT 6A 2A 4A 1 4A **CURRENT RANGE** 0 ~ 6A 0 ~ 3A 0 ~ 6A 0 ~ 2A Note.3 RATED POWER 54W 53.6W RIPPLE & NOISE (max.) Note.2 80mVp-p 120mVp-p 80mVp-p 150mVp-p OUTPUT VOLTAGE ADJ. RANGE CH1: 4.75 ~ 5.5V CH1: 4.75 ~ 5.5V VOLTAGE TOLERANCE Note.3 ±7.0% ±2.0% +2.0%+8% LINE REGULATION $\pm 0.5\%$ ±1.5% ±0.5% ±1.5% Note.4 LOAD REGULATION $\pm 0.5\%$ ±3.0% ±3.0% +0.5%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 88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) **VOLTAGE RANGE** FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY(Typ.) 78% 79% 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 -25 ~ +70°C (Refer to "Derating Curve") WORKING TEMP. 20 ~ 90% RH non-condensing **WORKING HUMIDITY** -40 ~ +85°C, 10 ~ 95% RH ENVIRONMENT STORAGE TEMP., HUMIDITY $\pm 0.03\%$ /°C (0 ~ 50°C)on +5V output TEMP. COEFFICIENT VIRRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, BIS IS 13252(Part 1):2010/IEC 60950-1:2005, EAC TP TC 004 approved I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC WITHSTAND VOLTAGE **SAFETY &** ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH **EMC** (Note 6) **EMC EMISSION** Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 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 2981.9K hrs min. Telcordia SR-332 (Bellcore); 594.2K hrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 99*97*36mm (L*W*H)

NOTE

PACKING

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

0.41Kg; 45pcs/19.5Kg/0.94CUFT

- 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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