





GTIN CODE

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 $70^{\circ}\!\text{C}$
- Withstand 5G vibration test
- * No load power consumption<0.5W
- · High efficiency, long life and high reliability
- 3 years warranty











User's Manual

SPECIFICATION MODEL RS-50-3.3 RS-50-5 RS-50-12 RS-50-15 RS-50-24 RS-50-48 DC VOLTAGE 3.3V 5V 12V 15V 24V 48V RATED CURRENT 10A 4 2A 3 4A 2 2A 1 1A CURRENT RANGE 0 ~ 10A 0 ~ 10A 0 ~ 4.2A 0 ~ 3.4A 0 ~ 2.2A 0 ~ 1.1A RATED POWER 33W 50.4W 51W 52.8W 52 8W RIPPLE & NOISE (max.) Note.2 80mVp-p 80mVp-p 120mVp-p 120mVp-p 120mVp-p 200mVp-p OUTPUT **VOLTAGE ADJ. RANGE** 3V ~ 3.6V 4.75 ~ 5.5V 10.8 ~ 13.2V 13.5 ~ 16.5V 22 ~ 27.2V 42 ~ 54V VOLTAGE TOLERANCE Note.3 ±3.0% ±2.0% ±1.0% ±1.0% ±1.0% ±1.0% LINE REGULATION $\pm 0.5\%$ ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% Note.4 LOAD REGULATION ±2.0% ±1.0% $\pm 0.5\%$ ±0.5% $\pm 0.5\%$ ±0.5% Note.5 SETUP. RISE TIME 500ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 60ms/230VAC 14ms/115VAC at full load **VOLTAGE RANGE** 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) 88 ~ 264VAC FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY(Typ.) 78% 83% 84.5% 86% 88% 89% INPUT AC CURRENT (Typ.) 1.3A/115VAC 0.8A/230VAC INRUSH CURRENT (Typ.) COLD START 33A/230VAC LEAKAGE CURRENT <2mA / 240VAC 110 ~ 150% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** 55.2 ~ 64.8V 5.75 ~ 6.75V 13.8 ~ 16.2V 17.25 ~ 20.25V 27.6 ~ 32.4V **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 TEMP. COEFFICIENT $\pm 0.03\%$ /°C (0 ~ 50°C) **VIBRATION** 10 ~ 500Hz, 5G 10min./1cycle, period for 60min, each along X, Y, Z axes UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004, CCC GB4943.1 approved SAFETY STANDARDS 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** (Note 6) **EMC EMISSION** Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3,GB9254 class B,GB17625.1, EAC TP TC 020 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 **EMC IMMUNITY** MTRE 2956.7K hrs min. Telcordia SR-332 (Bellcore); 575.2K 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.
- 4. Line regulation is measured from low line to high line at rated load.
- 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).
- * Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



