User's Manual



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^o 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 RS-100-3.3 RS-100-5 RS-100-48 RS-100-12 RS-100-15 RS-100-24 DC VOLTAGE 3.3V 12V 15V 24V 48V RATED CURRENT 20A 16A 8.5A 7A 4.5A 2.3A **CURRENT RANGE** 0 ~ 20A 0 ~ 16A 0 ~ 8.5A 0 ~ 7A 0 ~ 4.5A 0 ~ 2.3A RATED POWER 66W 102W 105W 108W 110 4W RIPPLE & NOISE (max.) Note.2 80mVp-p 80mVp-p 120mVp-p 120mVp-p 120mVp-p 200mVp-p OUTPUT **VOLTAGE ADJ. RANGE** 3.2V ~ 3.5V 4.75 ~ 5.5V 11.4 ~ 13.2V 14.25 ~ 16.5V 22.8 ~ 26.4V 45.6 ~ 52.8V VOLTAGE TOLERANCE Note.3 ±3.0% ±2.0% ±1.0% ±1.0% ±1.0% ±1.0% LINE REGULATION Note.4 ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% LOAD REGULATION ±2.0% ±1.0% ±0.5% ±0.5% ±0.5% ±0.5% Note.5 SETUP. RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 95ms/230VAC 17ms/115VAC at full load **VOLTAGE RANGE** 88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) **FREQUENCY RANGE** 47 ~ 63Hz EFFICIENCY (Typ.) 74% 81% 82% 84% 84% 77% INPUT AC CURRENT (Typ.) 2.5A/115VAC 1.5A/230VAC INRUSH CURRENT (Typ.) COLD START 40A/230VAC LEAKAGE CURRENT <2mA / 240VAC 110 ~ 150% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed **PROTECTION** 5.75 ~ 6.75V 13.8 ~ 16.2V 27.6 ~ 32.4V 55.2 ~ 64.8V **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** ENVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 5G 10min./1cvcle, period for 60min, each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, 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 / $25^{\circ}C$ / 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 3196.6K hrs min. Telcordia SR-332 (Bellcore); 526.7K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 159*97*38mm (L*W*H) 0.6Kg; 24pcs/15.4Kg/0.83CUFT PACKING

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.
- 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. 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. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
- 8. 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



