



■ Features :

- Universal AC input/Full range
- · Protections: Short circuit / Overload / Over voltage
- . Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Class I. Div 2 Hazardous Locations T4
- LED indicator for power on
- DC OK relay contact
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty



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SPECIFICATION MODEL MDR-60-12 MDR-60-5 MDR-60-24 MDR-60-48 DC VOLTAGE 5V 12V 48V RATED CURRENT 10A 5A 2.5A 1.25A **CURRENT RANGE** 0 ~ 10A 0 ~ 5A 0 ~ 2.5A 0 ~ 1.25A RATED POWER 50W 60W 60W 60W RIPPLE & NOISE (max.) Note.2 80mVp-p 120mVp-p 150mVp-p 200mVp-p OUTPUT **VOLTAGE ADJ. RANGE** 5 ~ 6V 12 ~ 15V 24 ~ 30V 48 ~ 56V **VOLTAGE TOLERANCE Note.3** ±2.0% ±1.0% ±1.0% $\pm 1.0\%$ LINE REGULATION ±1.0% ±1.0% ±1.0% ±1.0% LOAD REGULATION ±1.5% ±1.0% ±1.0% ±1.0% SETUP. RISE TIME Note.5 500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 50ms/230VAC 20ms/115VAC at full load 85 ~ 264VAC **VOLTAGE RANGE** 120 ~ 370VDC **FREQUENCY RANGE** 47 ~ 63Hz EFFICIENCY (Typ.) 78% 85% 87% 87% INPLIT AC CURRENT (Typ.) 1.8A/115VAC 1A/230VAC INRUSH CURRENT (Typ.) COLD START 30A/115VAC 60A/230VAC <1mA / 240VAC LEAKAGE CURRENT 105 ~ 150% rated output power OVERLOAD Protection type: Constant current limiting, recovers automatically after fault condition is removed **PROTECTION** 15.6 ~ 18V 31.2 ~ 36V 57.6 ~ 64.8V **OVER VOLTAGE** Protection type: Shut down o/p voltage, re-power on to recover FUNCTION DC OK SIGNAL Relay contact rating(max.): 30V/1A resistive WORKING TEMP. -20 ~ +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) VIBRATION Component: 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 UL508, UL62368-1, TUV BS EN/EN62368-1, Class I, Div. 2 Group A, B, C, D Hazardous Locations T4, EAC TP TC 004, SAFETY STANDARDS BSMI CNS14336-1, AS/NZS 60950.1, BIS IS13252(Part1): 2010/IEC 60950-1:2005(except 48V) approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC **SAFETY &** I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH ISOLATION RESISTANCE EMC (Note 4) Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438 Class B **EMC EMISSION** Compliance to BS EN/EN61000-4-2, 3, 4, 5, 6, 8, 11, BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3, heavy industry level, **EMC IMMUNITY** EAC TP TC 020 MTBF 2355.2K hrs min. Telcordia SR-332 (Bellcore); 489.9K hrs min. MIL-HDBK-217F (25°C) **OTHERS** DIMENSION 40*90*100mm (W*H*D) 0.33Kg; 42pcs/14.8Kg/0.82CUFT PACKING 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. NOTE 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. 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)
- 5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 6. 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



