



60W Single Output Industrial DIN Rail Power Supply

MDR-60 series



MDR-60-5

5V

SPECIFICATION

DC VOLTAGE

MODEL

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
- NEC class 2 / LPS compliant (24V,48V only)

MDR-60-24

24V

- LED indicator for power on
- DC OK relay contact
- No load power consumption<0.75W
- 100% full load burn-in test



48V

MDR-60-48

RATED CURRENT 10A 5A 2.5A 1.25A 0 ~ 5A 0 ~ 2.5A 0 ~ 1.25A **CURRENT RANGE** 0 ~ 10A 50W RATED POWER 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% ±1.0% **LINE REGULATION** ±1.0% ±1.0% ±1.0% ±1.0% LOAD REGULATION ±1.5% ±1.0% ±1.0% ±1.0% 500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load SETUP. RISE TIME HOLD UP TIME (Typ.) 50ms/230VAC 20ms/115VAC at full load **VOLTAGE RANGE** 85 ~ 264VAC 120 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz 78% 86% 88% 87% **EFFICIENCY (Typ.)** INPUT AC CURRENT (Typ.) 1.8A/115VAC 1A/230VAC INRUSH CURRENT (Typ.) COLD START 30A/115VAC 60A/230VAC LEAKAGE CURRENT <1mA / 240VAC 105 ~ 150% rated output power **OVERLOAD** Protection type: Constant current limiting, recovers automatically after fault condition is removed PROTECTION 6.25 ~ 7.25V 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 output load derating curve) 20 ~ 90% RH non-condensing **WORKING HUMIDITY** STORAGE TEMP., HUMIDITY **ENVIRONMENT** -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 **SAFETY STANDARDS** UL508, UL60950-1, TUV EN60950-1 approved, NEC class 2 / LPS compliant (24V,48V only) WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC 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**

MDR-60-12

12V

NOTE

(Note 4)

OTHERS

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

MIL-HDBK-217F (25°C)

Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation.

299.2K hrs min.

40*90*100mm (W*H*D)

Compliance to EN61000-3-2,-3

0.33Kg; 42pcs/14.8Kg/0.82CUFT

EMI CONDUCTION & RADIATION

HARMONIC CURRENT **EMS IMMUNITY**

MTBF

DIMENSION

PACKING

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

Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A

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.





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