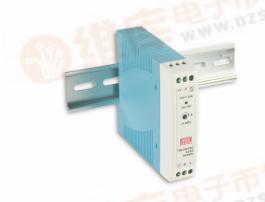


SPECIFICATION

MODEL

20W Single Output Industrial DIN Rail Power Supply

MDR-20 series



MDR-20-5

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 WWW.DZSC.COM

MDR-20-15

- NEC class 2 / LPS compliant
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty





MDR-20-24

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DC VOLTAGE 5V 12V 15V 24V RATED CURRENT ЗА 1.67A 1.34A 1A 0 ~ 3A 0 ~ 1.67A 0 ~ 1.34A **CURRENT RANGE** 0 ~ 1A 15W 20W 24W RATED POWER 20W 80mVp-p 150mVp-p 120mVp-p 120mVp-p RIPPLE & NOISE (max.) Note.2 OUTPUT **VOLTAGE ADJ. RANGE** 4 75 ~ 5 5V 10.8 ~ 13.2V 13 5 ~ 16 5V 21.6 ~ 26.4V ±2.0% **VOLTAGE TOLERANCE Note.3** ±1.0% ±1.0% ±1.0% +1 0% LINE REGULATION +1 0% +1 0% +1.0% ±1.0% ±1.0% ±1.0% LOAD REGULATION ±1.0% SETUP, RISE TIME Note.5 500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load HOLD UP TIME (Typ.) 50ms/230VAC 20ms/115VAC at full load **VOLTAGE RANGE** 85 ~ 264VAC 120 ~ 370VDC **FREQUENCY RANGE** 47 ~ 63Hz 76% 81% 84% EFFICIENCY (Typ.) INPUT AC CURRENT (Typ.) 0.55A/115VAC 0.35A/230VAC **INRUSH CURRENT (Typ.)** COLD START 20A/115VAC 40A/230VAC LEAKAGE CURRENT <1mA / 240VAC 105 ~ 160% rated output power **OVERLOAD** Protection type: Constant current limiting, recovers automatically after fault condition is removed PROTECTION 13.8 ~ 16.2V 17 25 ~ 20 25V 27.6 ~ 32.4V **OVER VOLTAGE** Protection type: Shut down o/p voltage, re-power on to recover DC OK ACTIVE SIGNAL (max.) **FUNCTION** 18 ~ 27V / 20mA 3.75 ~ 6V / 50mA 9 ~ 13.5V / 40mA 11.5 ~ 16.5V / 40mA -20 ~ +70°C (Refer to output load derating curve) WORKING TEMP. 20 ~ 90% RH non-condensing WORKING HUMIDITY STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH ENVIRONMENT **TEMP. COEFFICIENT** $\pm 0.03\% / ^{\circ} \text{C}$ (0 ~ 50 $^{\circ} \text{C}$ $Component: 10 \sim 500 Hz, 2G \ 10 min. / 1 cycle, 60 min. \ each \ along \ X, \ Y, \ \overline{Z} \ axes; \ Mounting: \ Compliance \ to \ IEC60068-2-6 min. \ A support of \ A supp$ **VIBRATION** SAFETY STANDARDS UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant 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 **EMC** Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B **EMI CONDUCTION & RADIATION** (Note 4) Compliance to EN61000-3-2,-3 HARMONIC CURRENT Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-1, EN61204-3, light industry level, criteria A **EMS IMMUNITY** MTRF MIL-HDBK-217F (25°C) 236.9K hrs min.

MDR-20-12

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 0.1uf & 47uf parallel capacitor.

22.5*90*100mm (W*H*D)

0.19Kg; 72pcs/14.7Kg/0.91CUFT

- 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
- 5. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.

OTHERS

DIMENSION

PACKING



