



96W Single Output Industrial DIN Rail Power Supply



Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- ZCS/ZVS technology to reduce power dissipation
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- DC OK relay contact
- No load power consumption<1W
- NEC Class 2, limited power source (for 24V,48V only)
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty



MDR-100 series

SPECIFICATION

| MODEL | | MDR-100-12 | MDR-100-24 | MDR-100-48 | |
|-----------------|--|---|---|--|--|
| | DC VOLTAGE | 12V | 24V | 48V | |
| OUTPUT | RATED CURRENT | 7.5A | 4A | 2A | |
| | CURRENT RANGE | 0~7.5A | 0~4A | 0~2A | |
| | RATED POWER | 90W | 96W | 96W | |
| | RIPPLE & NOISE (max.) Note.2 | 120mVp-p | 150mVp-p | 200mVp-p | |
| | VOLTAGE ADJ. RANGE | 12 ~ 15V | 24 ~ 30V | 48 ~ 56V | |
| | VOLTAGE TOLERANCE Note.3 | ±1.0% | ±1.0% | ±1.0% | |
| | LINE REGULATION | ±1.0% | ±1.0% | ±1.0% | |
| | LOAD REGULATION | ±1.0% | ±1.0% | ±1.0% | |
| | SETUP, RISE TIME Note.5 | 3000ms, 50ms/230VAC 3000ms, 50m | s/115VAC at full load | 1 | |
| | HOLD UP TIME (Typ.) | 50ms/230VAC 20ms/115VAC at full load | | | |
| INPUT | , | 85 ~ 264VAC 120 ~ 370VDC | | | |
| | FREQUENCY RANGE | 47~63Hz | | | |
| | POWER FACTOR (Typ.) | PF≥0.95/230VAC PF≥0.98/115VAC | at full load | | |
| | EFFICIENCY (Typ.) | 85% | 86% | 88% | |
| | AC CURRENT (Typ.) | 1.3A/115VAC 0.8A/230VAC | | | |
| | INRUSH CURRENT (Typ.) | COLD START 30A/115VAC 60A/230VAC | | | |
| | LEAKAGE CURRENT | <1mA/240VAC | | | |
| PROTECTION | | 105 ~ 150% rated output power | | | |
| | OVERLOAD | | recovers automatically after fault condition is | s removed | |
| | OVER VOLTAGE | 15.6 ~ 18V | 31.2 ~ 36V | 57.6 ~ 64.8V | |
| | | Protection type : Shut down o/p voltage, re | -power on to recover | 1 | |
| | | $90^{\circ}C \pm 10^{\circ}C$ (RTH2) detect on heatsink of power transistor | | | |
| | OVER TEMPERATURE | Protection type : Shut down o/p voltage, re-power on to recover | | | |
| FUNCTION | DC OK SIGNAL | Relay contact rating(max.): 30V/1A resistive | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +60°C (Refer to output load derating curve) | | | |
| | WORKING HUMIDITY | 20~90% RH non-condensing | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85℃, 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, TUV EN60950-1 approved, design refer to NEC CLASS 2 (for 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 (Note 4) | EMI CONDUCTION & RADIATION | Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B | | | |
| | HARMONIC CURRENT | Compliance to EN61000-3-2,-3 | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11 | , ENV50204, EN55024, EN61000-6-2, EN612 | 04-3, heavy industry level, criteria A | |
| OTHERS | MTBF | 346K hrs min. MIL-HDBK-217F (25°C) | | | |
| | DIMENSION | 55*90*100mm (W*H*D) | | | |
| | PACKING | 0.42Kg; 30pcs/13.6Kg/0.82CUFT | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. Length of set up time is me | meters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. a noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor. be : includes set up tolerance, line regulation and load regulation. wer supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ectives. 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. maybe needed under low input voltages, please check the derating curve for more detail. | | | |



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