



SPECIFICATION

240W Single Output Industrial DIN RAIL Power Supply

WDR-240 series



Features :

- Single and two phase wide input range 180~550VAC
- High efficiency 91% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- · 3 years warranty

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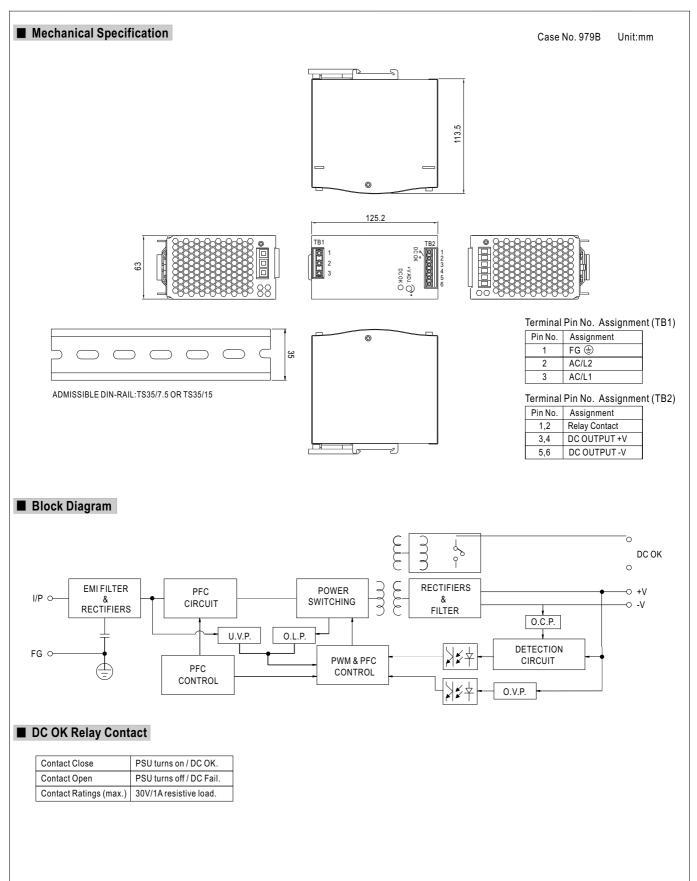
MODEL WDR-240-24 WDR-240-48 DC VOLTAGE 24V 48V RATED CURRENT 10A 5A **CURRENT RANGE** 0 ~ 10A 0 ~ 5A **RATED POWER** 240W 240W RIPPLE & NOISE (max.) Note.2 150mVp-p 150mVp-p OUTPUT **VOLTAGE ADJ. RANGE** 48 ~ 55V 24 ~ 28V VOLTAGE TOLERANCE Note.3 +1 0% +1.0% ±0.5% LINE REGULATION +0.5% LOAD REGULATION +1.0% ±1.0% 1500ms, 150ms/230VAC at full load SETUP. RISE TIME 800ms 150ms/400VAC **HOLD UP TIME (Typ.)** 18ms / 400VAC 18ms / 230VAC at full load **VOLTAGE RANGE** 180 ~ 550VAC 254 ~ 780VDC FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 91% INPUT AC CURRENT (Typ.) 1A/400VAC 2A/230VAC **INRUSH CURRENT (Typ.) COLD STAR 50A LEAKAGE CURRENT** <3.5mA / 530VAC 105 ~ 130% rated output power **OVERLOAD** Protection type: Constant current limiting, unit will shut down after 3 sec., auto-recovery after 1 minute if the fault condition is removed 29 ~ 33V OVER VOLTAGE PROTECTION Protection type: Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed 90°C ±5°C (TSW) detect on heatsink of power switch **OVER TEMPERATURE** Protection type: Shut down o/p voltage, recovers automatically after temperature goes down 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load FUNCTION DC OK REALY CONTACT RATINGS (max.) -30 ~ +70°C (Refer to output load derating curve) **WORKING TEMP** 20 ~ 95% RH non-condensing WORKING HUMIDITY STORAGE TEMP., HUMIDITY -40 ~ +85°C, 10 ~ 95% RH **ENVIRONMENT TEMP. COEFFICIENT** ±0.03%/°C (0 ~ 50°C) VIRRATION Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 SAFETY STANDARDS UL508 approved, IEC60950-1 CB approved by SIQ, design refer to GL WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH **SAFETY & EMI CONDUCTION & RADIATION** Compliance to EN55022 (CISPR22), EN61204-3 Class B **EMC** (Note 4) 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 (EN50082-2), EN61204-3, heavy industry level, criteria A approved **MTBF** 141.1Khrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 63*125.2*113.5mm (W*H*D) 1.06Kg; 12pcs/13.7Kg/1.06CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25℃ 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. 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 5. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. Derating may be needed under low input voltage. Please check the derating curve for more details.





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