

GTIN CODE

SPECIFICATION



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■ Features :

- Single and two phase wide input range 180~550VAC
- Built-in active PFC circuit compliance to BS EN/EN61000-3-2
- · High efficiency 93% 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
- BS EN/EN61000-6-2(BS EN/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-480-24 WDR-480-48 DC VOLTAGE 24V 48V RATED CURRENT 20A 10A **CURRENT RANGE** 0 ~ 20A 0 ~ 10A **RATED POWER** 480W 480W 100mVp-p RIPPLE & NOISE (max.) Note.2 150mVp-p **OUTPUT VOLTAGE ADJ. RANGE** 24 ~ 28V 48 ~ 55V VOLTAGE TOLERANCE Note.3 ±1.0% +1.0%LINE REGULATION +0.5%+0.5%±1.0% LOAD REGULATION $\pm 1.0\%$ 2000ms, 150ms/230VAC at full load SETUP. RISE TIME 800ms, 150ms/400VAC 18ms / 400VAC 16ms / 230VAC at full load **HOLD UP TIME (Typ.)** 180 ~ 550VAC 254 ~ 780VDC **VOLTAGE RANGE** Note.6 **FREQUENCY RANGE** 47 ~ 63Hz PF≥0.84/230VAC PF≥0 84/400VAC POWER FACTOR (Typ.) **EFFICIENCY (Typ.)** 92% 93% INPUT AC CURRENT (Typ.) 1 6A/400VAC 4A/230VAC **INRUSH CURRENT (Typ.) COLD START 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 56 ~ 65V **OVER VOLTAGE** PROTECTION Protection type: Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed 95°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 "Derating Curve") WORKING TEMP. 20 ~ 95% RH non-condensing WORKING HUMIDITY -40 ~ +85°C, 10 ~ 95% RH ENVIRONMENT STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT $\pm 0.03\%$ /°C (0 ~ 50°C) VIBRATION Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 UL508,EAC TP TC 004 approved,IEC62368-1 CB approved by SIQ,design refer to BS EN/EN62368-1, AS/NZS 62368.1,GL; SAFETY STANDARDS (meet BS EN/EN60204-1) WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC SAFETY & **ISOLATION RESISTANCE** I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH **FMC** (Note 4) **EMC EMISSION** Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020 **EMC IMMUNITY** Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020 approved MTRF 825.4K hrs min. Telcordia SR-332 (Bellcore); 112.8K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 85.5*125.2*128.5mm (W*H*D) 1.7Kg; 8pcs/14.6Kg/0.9CUFT **PACKING** 1. All parameters NOT specially mentioned are measured at 400VAC 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. 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. 7. 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)

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