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# 480W Single Output Industrial DIN RAIL with PFC Function

SDR-480 series



# GTIN CODE

**SPECIFICATION** 

MW Search: https://www.meanwell.com/serviceGTIN.aspx

### ■ Features :

- · High efficiency 94% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.94
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- · Built-in constant current limiting circuit
- 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









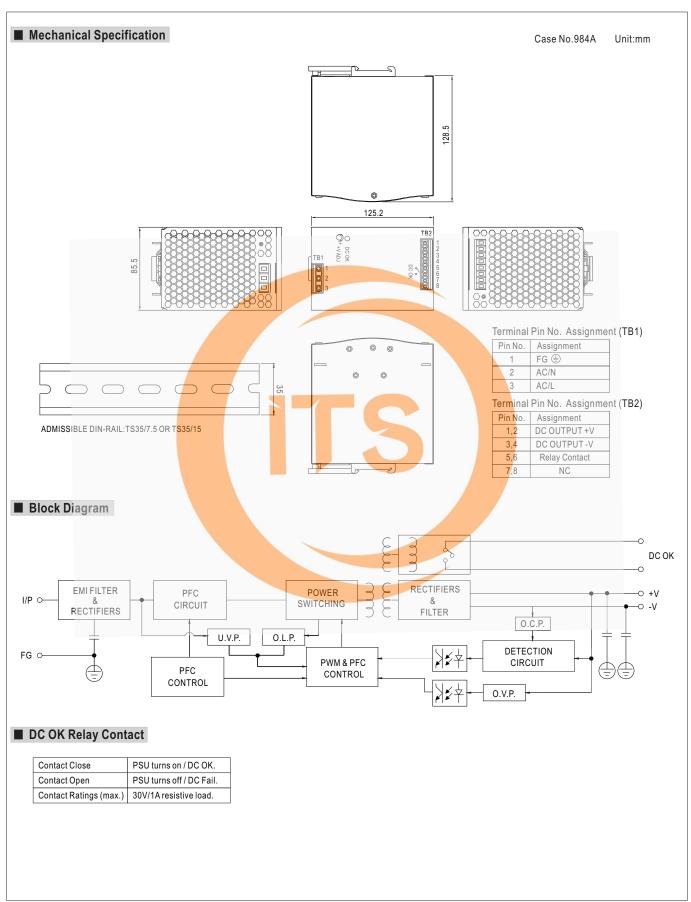


User's Manual

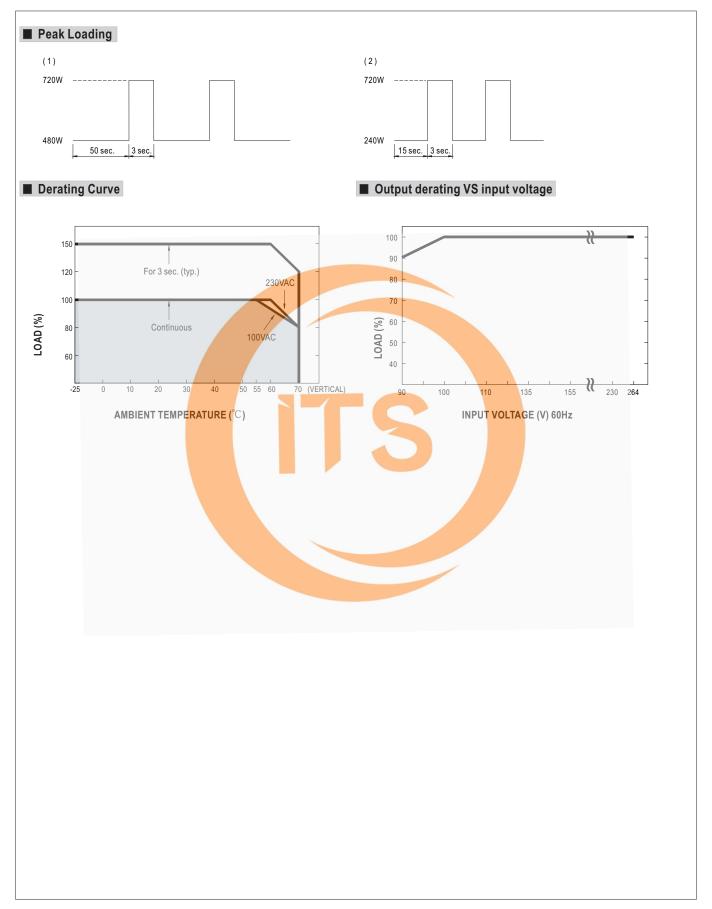
#### MODEL SDR-480-24 SDR-480-48 DC VOLTAGE 24V 48V RATED CURRENT **CURRENT RANGE** 0 ~ 20A 0 ~ 10A **R**ATED POWER 480W **PEAK CURRENT** 30A **PEAK POWER** 720W (3sec.) Note.6 **OUTPUT** RIPPLE & NOISE (max.) Note.2 100mVp-p 120mVp-p VOLTAGE ADJ. RANGE 48 ~ 55V 24 ~ 28V **VOLTAGE TOLERANCE** Note.3 $\pm 1.2\%$ ±1.0% LINE REGULATION $\pm 0.5\%$ $\pm 0.5\%$ LOAD REGULATION $\pm 1.0\%$ +10% SETUP. RISE TIME 1500ms, 150ms/230VAC 3000ms, 150ms/115VAC at full load 14ms/230VAC at full load HOLD UP TIME (Typ.) 90 ~ 264VAC **VOLTAGE RANGE** Note.7 127 ~ 370VDC **FREQUENCY RANGE** 47 ~ 63Hz POWER FACTOR (Typ.) 0.94/230VAC 0.99/115VAC at full load INPUT EFFICIENCY (Typ.) 94% AC CURRENT (Typ.) 5A/115VAC 2.5A/230VAC 80A/230VAC INRUSH CURRENT (Typ.) 40A/115VAC **LEAKAGE CURRENT** <0.8mA / 240VAC Normally works within 110 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery **OVERLOAD** >150% rated power, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds PROTECTION 29 ~ 33V **OVER VOLTAGE** Protection type: Shut down o/p voltage with auto-recovery or re-power on to recovery **OVER TEMPERATURE** 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.) -25 ~ +70°C (Refer to "Derating Curve") WORKING TEMP. 20 ~ 95% RH non-condensing WORKING HUMIDITY -40 ~ +85°C, 10 ~ 95% RH STORAGE TEMP., HUMIDITY ENVIRONMENT **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 SAFETY STANDARDS UL508, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004, BSMI CNS14336-1 approved; (meet BS EN/EN60204-1) I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC WITHSTAND VOLTAGE **SAFETY &** ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH **EMC FMC FMISSION** Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438 (Note 4) Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2 (BS EN/EN50082-2), **EMC IMMUNITY** BS EN/EN61204-3, heavy industry level, EAC TP TC 020, SEMI F47 approved MTRF 964.2K hrs min. Telcordia SR-332 (Bellcore); 91.9K hrs min. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 85.5\*125.2\*128.5mm (W\*H\*D) 1.6Kg; 8pcs/13.8Kg/0.9CUFT 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 0.1 $\mu$ F & 47 $\mu$ F 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. (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 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. 3 seconds peak power max. and the average output power should not exceed the rate power.
- 7. Derating may be needed under low input voltage. Please check the derating curve for more details.
- 8. 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).
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx









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