



480W Single Output Industrial DIN RAIL Power Supply

WDR-480 series



■ 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

User's Manual



■ GTIN CODE

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

SPECIFICATION



MODEL	WDR-480-24	WDR-480-48
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	20A
	CURRENT RANGE	0 ~ 20A
	RATED POWER	480W
	RIPPLE & NOISE (max.) Note.2	100mVp-p
	VOLTAGE ADJ. RANGE	24 ~ 28V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1.0%
	SETUP, RISE TIME	800ms, 150ms/400VAC 2000ms, 150ms/230VAC at full load
INPUT	HOLD UP TIME (Typ.)	18ms / 400VAC 16ms / 230VAC at full load
	VOLTAGE RANGE Note.6	180 ~ 550VAC 254 ~ 780VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF≥0.84/400VAC PF≥0.84/230VAC
	EFFICIENCY (Typ.)	92% 93%
	AC CURRENT (Typ.)	1.6A/400VAC 4A/230VAC
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 50A
	LEAKAGE CURRENT	<3.5mA / 530VAC
	OVERLOAD	105 ~ 130% rated output power Protection type : Constant current limiting, unit will shut down after 3 sec. ,auto-recovery after 1 minute if the fault condition is removed
	OVER VOLTAGE	29 ~ 33V 56 ~ 65V Protection type : Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed
ENVIRONMENT	OVER TEMPERATURE	95°C ± 5°C (TSW) detect on heatsink of power switch Protection type : Shut down o/p voltage, recovers automatically after temperature goes down
	FUNCTION	DC OK REALY CONTACT RATINGS (max.)
	WORKING TEMP. Note.5	60Vdc/0.3A, 30Vdc/1A, 30Vdc/0.5A resistive load
	WORKING HUMIDITY	-30 ~ +70°C (Refer to "Derating Curve")
	STORAGE TEMP., HUMIDITY	20 ~ 95% RH non-condensing
SAFETY & EMC (Note 4)	TEMP. COEFFICIENT	-40 ~ +85°C, 10 ~ 95% RH
	VIBRATION	± 0.03%/°C (0 ~ 50°C)
	SAFETY STANDARDS	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6
	WITHSTAND VOLTAGE	UL508, EAC TP TC 004 approved, IEC62368-1 CB approved by SIQ, design refer to BS EN/EN62368-1, AS/NZS 62368.1, GL; (meet BS EN/EN60204-1)
OTHERS	ISOLATION RESISTANCE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH
	EMC IMMUNITY	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020
	MTBF	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
NOTE	DIMENSION	825.4K hrs min. Telcordia SR-332 (Bellcore) ; 112.8K hrs min. MIL-HDBK-217F (25°C)
	PACKING	85.5*125.2*128.5mm (W*H*D)
1.7Kg; 8pcs/14.6Kg/0.9CUFT		

1. All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.
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.
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).

※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>

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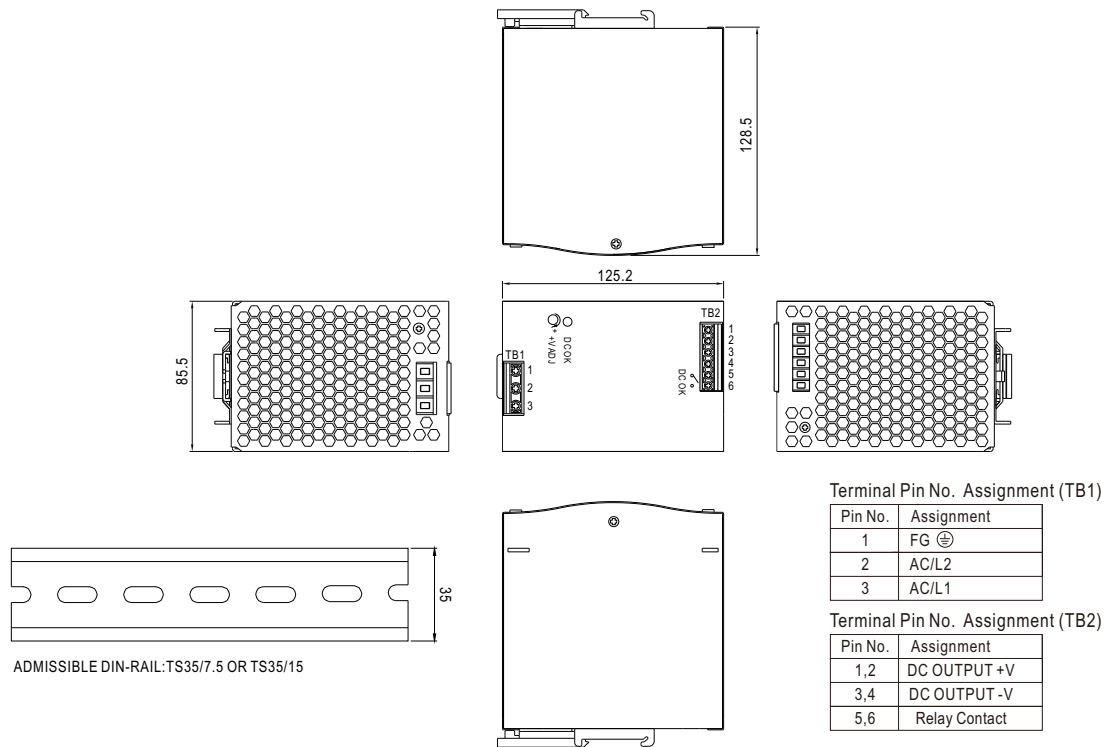


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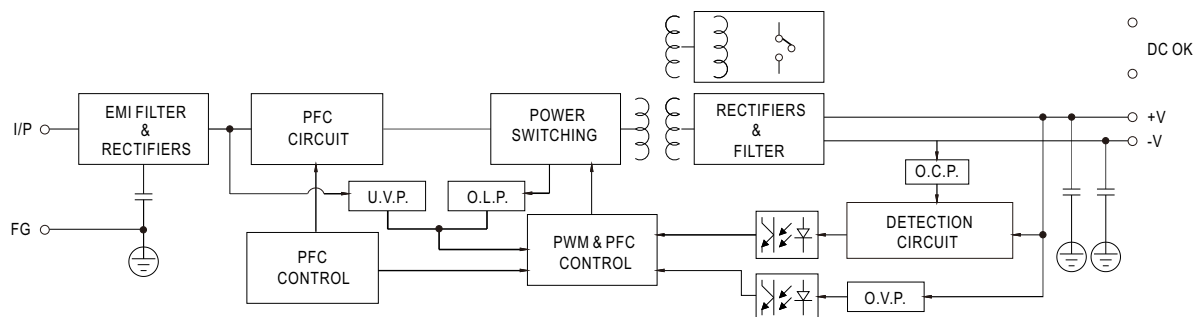
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Mechanical Specification

Case No.984B Unit:mm



Block Diagram



DC OK Relay Contact

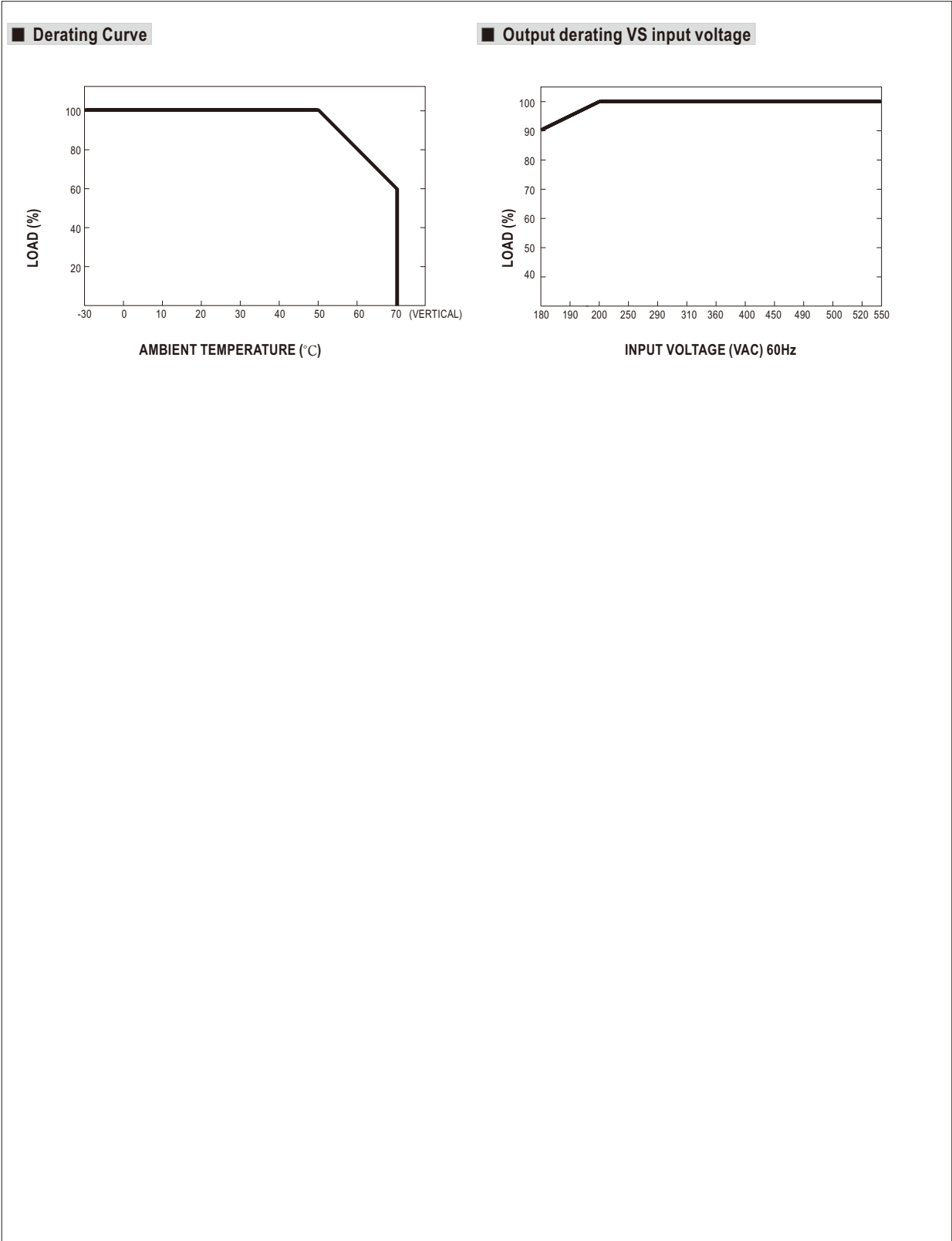
Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

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