















Features

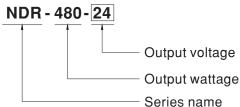
- Universal AC input / Full range
- · Built-in active PFC function
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- · Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- · 100% full load burn-in test
- · 3 years warranty

Description

NDR-480 is one economical slim 480W Din rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 85.5mm in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 90VAC to 264VAC and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current.

NDR-480 is designed with metal housing that enhances the unit's power dissipation. With working efficiency up to 92.5%, the entire series can operate at the ambient temperature between -20°C and 70°C under air convection. It is equipped with constant current mode for over-load protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for industrial control apparatus (UL508, TUV BS EN/EN62368-1, and etc.) make NDR-480 a very competitive power supply solution for industrial applications.

Model Encoding



Applications

- Industrial control system
- Factory automation
- · Electro-mechanical apparatus

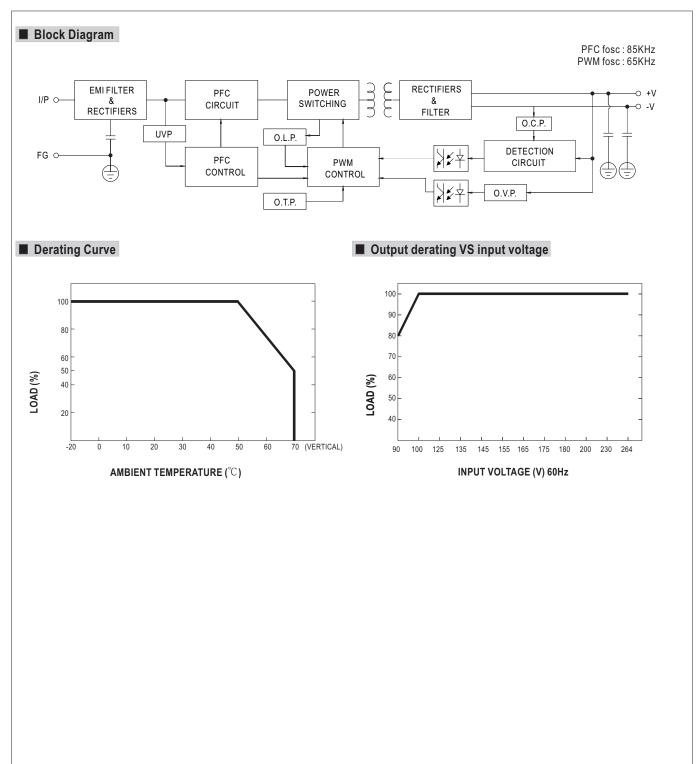


SPECIFICATION

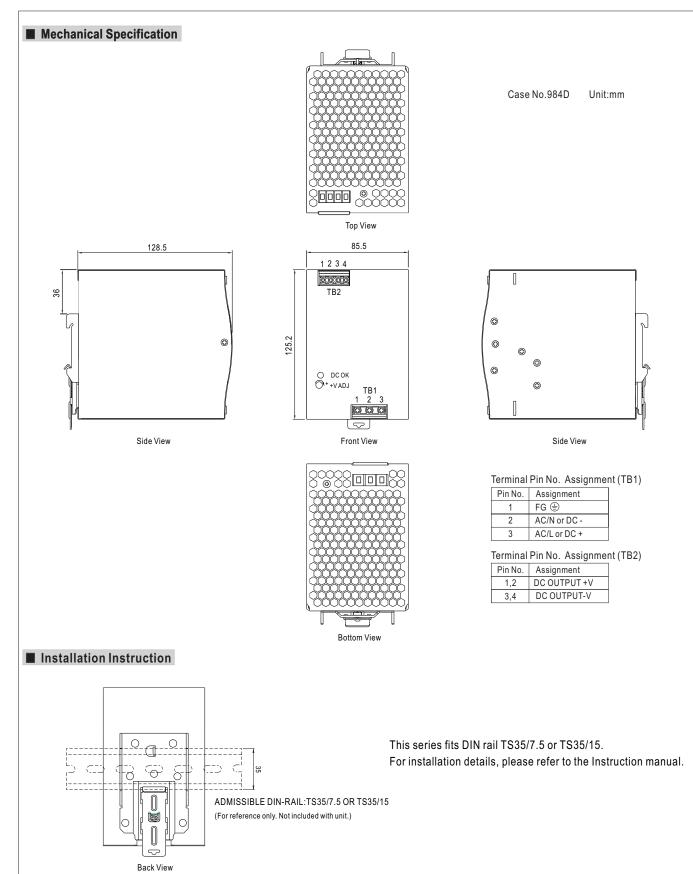
MODEL		NDR-480-24	NDR-480-48
	DC VOLTAGE	24V	48V
ОИТРИТ	RATED CURRENT	20A	10A
	CURRENT RANGE	0~20A	0 ~ 10A
	RATED POWER	480W	480W
	RIPPLE & NOISE (max.) Note.2		150mVp-p
	VOLTAGE ADJ. RANGE	24~28V	48 ~ 55V
	VOLTAGE TOLERANCE Note.3		±1.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	1500ms, 100ms/230VAC 3000ms, 100ms/115VAC at full load	
	-	16ms/230VAC 16ms/115VAC at full load	
	HOLD UP TIME (Typ.)	90 ~ 264VAC 127 ~ 370VDC	
INPUT			
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.94/230VAC at full load	00.70/
	EFFICIENCY (Typ.)	92.5%	92.5%
	AC CURRENT (Typ.)	4.8A/115VAC 2.4A/230VAC	
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC	
	LEAKAGE CURRENT	<2mA/240VAC	
PROTECTION	OVERLOAD	105 ~ 130% rated output power	
		Protection type: Constant current limiting, unit will shut down a	after 3 sec., re-power on to recover
	OVER VOLTAGE	29 ~ 33V	56 ~ 65V
	OVER VOLIAGE	Protection type: Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.	-20 ~ +70 °C (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±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, EAC TP TC 004 , BSMI CNS14336-1 approved; (meet BS EN/EN60204-1)	
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	
(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,CNS13438 Class B	
	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, criteria A, EAC TP TC 020	
	MTBF	146.8K hrs min. MIL-HDBK-217F (25°C)	
OTHERS	DIMENSION	85.5*125.2*128.5mm (W*H*D)	
	PACKING	1.5Kg; 8pcs/13Kg/0.9CUFT	
NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		5°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.		
	3. Tolerance : includes set up tolerance, line regulation and load regulation.		
	4. 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.		
	5. Derating may be needed under low input voltage. Please check the derating curve for more details. 6. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies EMC directions. For quidages on how to perform these EMC tasts, please refer to "EMI testing of component power supplies".		
		tives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."	
	7. The ambient temperature d 2000m(6500ft).	rating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than	
	(as available on http://www.meanwell.com)		
	Reserved to the product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		
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■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html