











Features

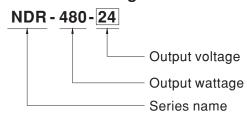
- Universal AC input / Full range
- · Built-in active PFC function
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- · Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial 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 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 EN60950-1, and etc.) make NDR-480 a very competitive power supply solution for industrial applications.

Model Encoding



Applications

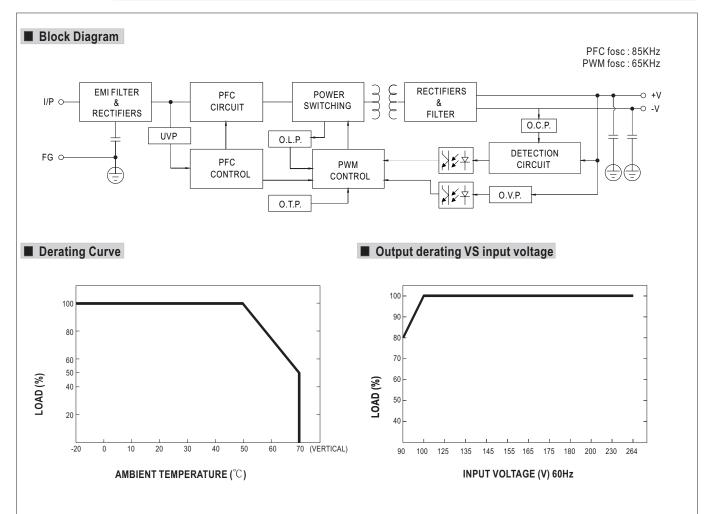
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus



SPECIFICATION

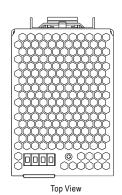
DC VOLTAGE RATED CURRENT	24V	48V
RATED CURRENT		40 V
IVALED CONNENT	20A	10A
CURRENT RANGE	0~20A	0 ~ 10A
RATED POWER	480W	480W
RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p
VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%
LINE REGULATION	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%
SETUP, RISE TIME	1500ms, 100ms/230VAC 3000ms, 100ms/115VAC a	t full load
HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load	
VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC	
FREQUENCY RANGE	47 ~ 63Hz	
POWER FACTOR (Typ.)	PF>0.98/115VAC. PF>0.94/230VAC at full load	
(, , ,	92.5%	92.5%
	4.8A/115VAC 2.4A/230VAC	
	20A/115VAC 35A/230VAC	
	<2mA / 240VAC	
OVERLOAD		t down after 3 sec., re-power on to recover
OVER VOLTAGE		56 ~ 65V
OVER TEMPERATURE		
	<u> </u>	
	<u> </u>	
·	•	
	,	along X Y Z axes: Mounting: Compliance to IEC60068-2-6
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
ISOLATION RESISTANCE	I/P-O/P. I/P-FG. O/P-FG:>100M Ohms / 500VDC / 25°C / 3	70% RH
EMC EMISSION		
EMC IMMUNITY		l61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A
MTBF	146.8K hrs min. MIL-HDBK-217F (25°C)	, , , , , ,
DIMENSION	85.5*125.2*128.5mm (W*H*D)	
PACKING	1.5Kg; 8pcs/13Kg/0.9CUFT	
All parameters NOT special	lly mentioned are measured at 230VAC input, rated load	and 25°C of ambient temperature.
2. Ripple & noise are measure	ed at 20MHz of bandwidth by using a 12" twisted pair-win	re terminated with a 0.1uf & 47uf parallel capacitor.
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	·	ght side are recommended when loaded permanently with full power
•		iar mara dataila
-		
	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance: includes set up 4. Installation clearances: 40r In case the adjacent device 5. Derating may be needed ur 6. The power supply is consid EMC directives. For guidance	VOLTAGE ADJ. RANGE 24 ~ 28V VOLTAGE TOLERANCE Note.3 ±1.0% LINE REGULATION ±0.5% LOAD REGULATION ±1.0% SETUP, RISE TIME 1500ms, 100ms/230VAC 3000ms, 100ms/115VAC at full load HOLD UP TIME (Typ.) 16ms/230VAC 16ms/115VAC at full load VOLTAGE RANGE Note.4 90 ~ 264VAC 127 ~ 370VDC FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) 92.5% AC CURRENT (Typ.) 4.8A/115VAC 2.4A/230VAC INRUSH CURRENT (Typ.) 20A/115VAC 35A/230VAC LEAKAGE CURRENT <2mA / 240VAC



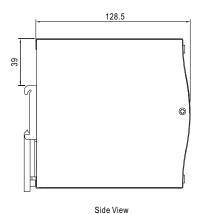




■ Mechanical Specification



Case No.984D Unit:mm



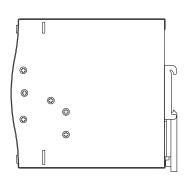
85.5

1 2 3 4

TB2

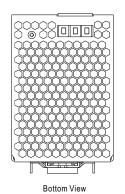
O DC OK

O + +VADJ
TB1
1 2 3



Front View

Side View



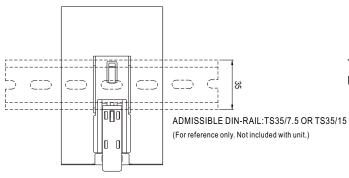
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N or DC -
3	AC/L or DC +

Terminal Pin No. Assignment (TB2)

Pin No.	Assignment	
1,2	DC OUTPUT +V	
3,4	DC OUTPUT-V	

■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

■ Installation Manual

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

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