















### Features

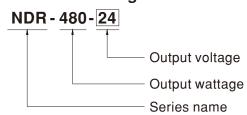
- Universal AC input / Full range
- · Built-in active PFC function
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- · Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- BS EN/EN61000-6-2(BS EN/EN50082-2)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

#### GTIN CODE

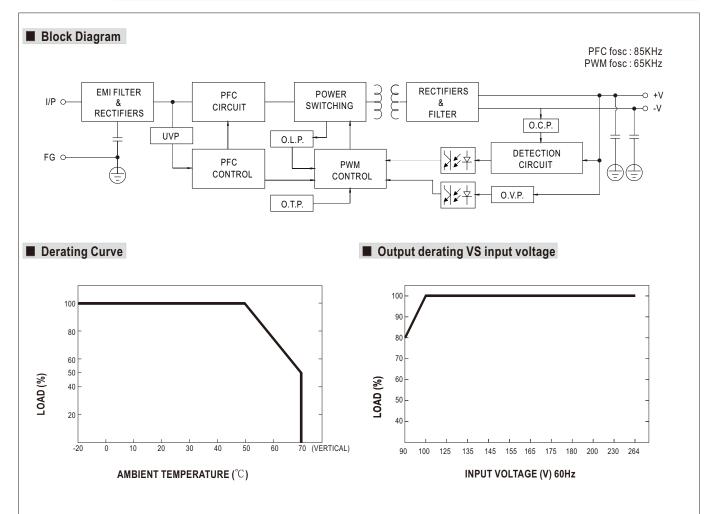
MW Search: https://www.meanwell.com/serviceGTIN.aspx



## **SPECIFICATION**

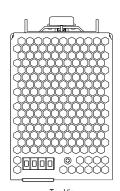
MODEL		NDR-480-24	NDR-480-48	
	DC VOLTAGE	24V	48V	
	RATED CURRENT	20A	10A	
	CURRENT RANGE	0 ~ 20A	0~10A	
	RATED POWER	480W	480W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	
	SETUP, RISE TIME	1500ms, 100ms/230VAC 3000ms, 100ms/115VAC at full loa		
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load		
		90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.94/230VAC at full load		
INPUT	EFFICIENCY (Typ.)	92.5%	92.5%	
01	AC CURRENT (Typ.)	4.8A/115VAC 2.4A/230VAC	02.070	
	INRUSH CURRENT (Typ.)	20A/115VAC 35A/230VAC		
	LEAKAGE CURRENT	<pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre></pre> <pre></pre>		
	OVERLOAD	105 ~ 130% rated output power		
		Protection type: Constant current limiting, unit will shut down a	ofter 3 sec. re-nower on to recover	
DDOTECTION	OVER VOLTAGE	29 ~ 33V	56 ~ 65V	
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover	- 30 · 03 V	
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature of	noes down	
		-20 ~ +70°C (Refer to "Derating Curve")	gues duwii	
	WORKING TEMP.	20 ~ 95% RH non-condensing		
ENVIRONMENT	WORKING HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
ENVIRONMENT	STORAGE TEMP., HUMIDITY	'		
	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  UL508, TUV BS EN/EN62368-1, 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	30-1 approved, (meet B3 EN/EN00204-1)	
SAFETY &				
EMC (Note 4)	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH	ass B,BS EN/EN61000-3-2,-3,EAC TP TC 020,CNS13438 Class B	
(11010 4)	EMC IMMUNITY			
	ENIC ININIONITY	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		
	MTBF	1041.6K hrs min. Telcordia SR-332 (Bellcore); 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		lly mentioned are measured at 230VAC input, rated load and 25	°C of ambient temperature.	
NOTE	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.			
	,	<ol><li>Derating may be needed under low input voltage. Please check the derating curve for more details.</li><li>The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the</li></ol>		
	5. Derating may be needed un			
	Derating may be needed up     The power supply is consider	lered as an independent unit, but the final equipment still need to	re-confirm that the whole system complies with the	
	5. Derating may be needed up 6. The power supply is consided EMC directives. For guidance  The power supply is considered in the power supply is considered in the power supply in the power supply is considered in the power supply in the power supply in the power supply is considered in the power supply is considered in the power supply in the power supply is considered in the power supply in the power supply is considered in the power supply in the power supply is considered in the power supply in the power supply is considered in the power supply in the power supply in the power supply is considered in the power supply in the power supp	lered as an independent unit, but the final equipment still need to e on how to perform these EMC tests, please refer to "EMI testing of components".	o re-confirm that the whole system complies with the ent power supplies."	
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	Derating may be needed up     The power supply is consided EMC directives. For guidance     The ambient temperature description.	lered as an independent unit, but the final equipment still need to e on how to perform these EMC tests, please refer to "EMI testing of componed lerating of $3.5^{\circ}$ C/1000m with fanless models and of $5^{\circ}$ C/1000m with fanless models."	o re-confirm that the whole system complies with the ent power supplies."	



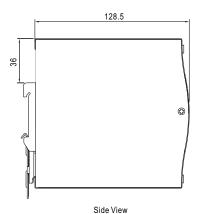


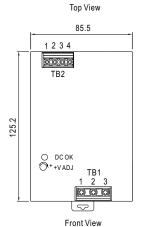


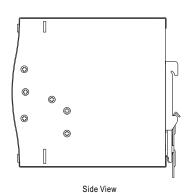
## ■ Mechanical Specification



Case No.984D Unit:mm







**Bottom View** 

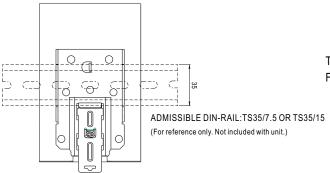
Terminal Pin No. Assignment (TB1)

	•
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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