



## Product Specifications

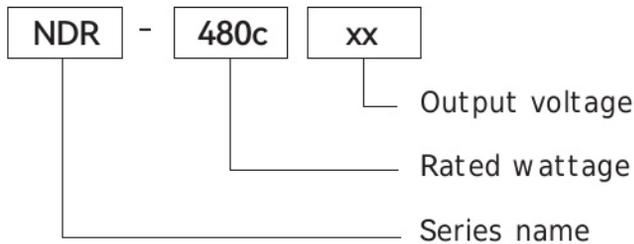
# NDR-480c

- Product category: 480W single-output Din rail switching power supply
- Version Number: ZTAO3.0
- Release date: May 1st, 2025

### Product Overview

The NDR-480-XX series is a 480W rail-mounted industrial power supply. The entire series features wide-voltage AC/DC input, active PFC function, and output voltages including 24V, 36V, and 48V, which can be adapted to different load application requirements to meet the majority of industrial application needs. With high conversion efficiency, a compact housing design, excellent heat dissipation, and comprehensive protection, this series ensures high reliability and stability.

### Model encoding

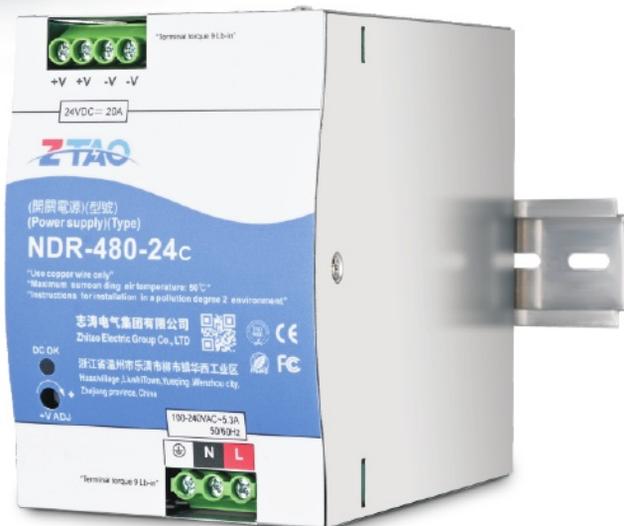


### Product features

- International full-range A C input
- Install guide rails: TS35/7.5 or 15
- Protection types: Short circuit / Overload / Overvoltage
- Cooling by free air convection
- Equipped with active PFC function
- LED indicator for power on
- 100% full-load burn-in test
- 3-year warranty

### Application fields

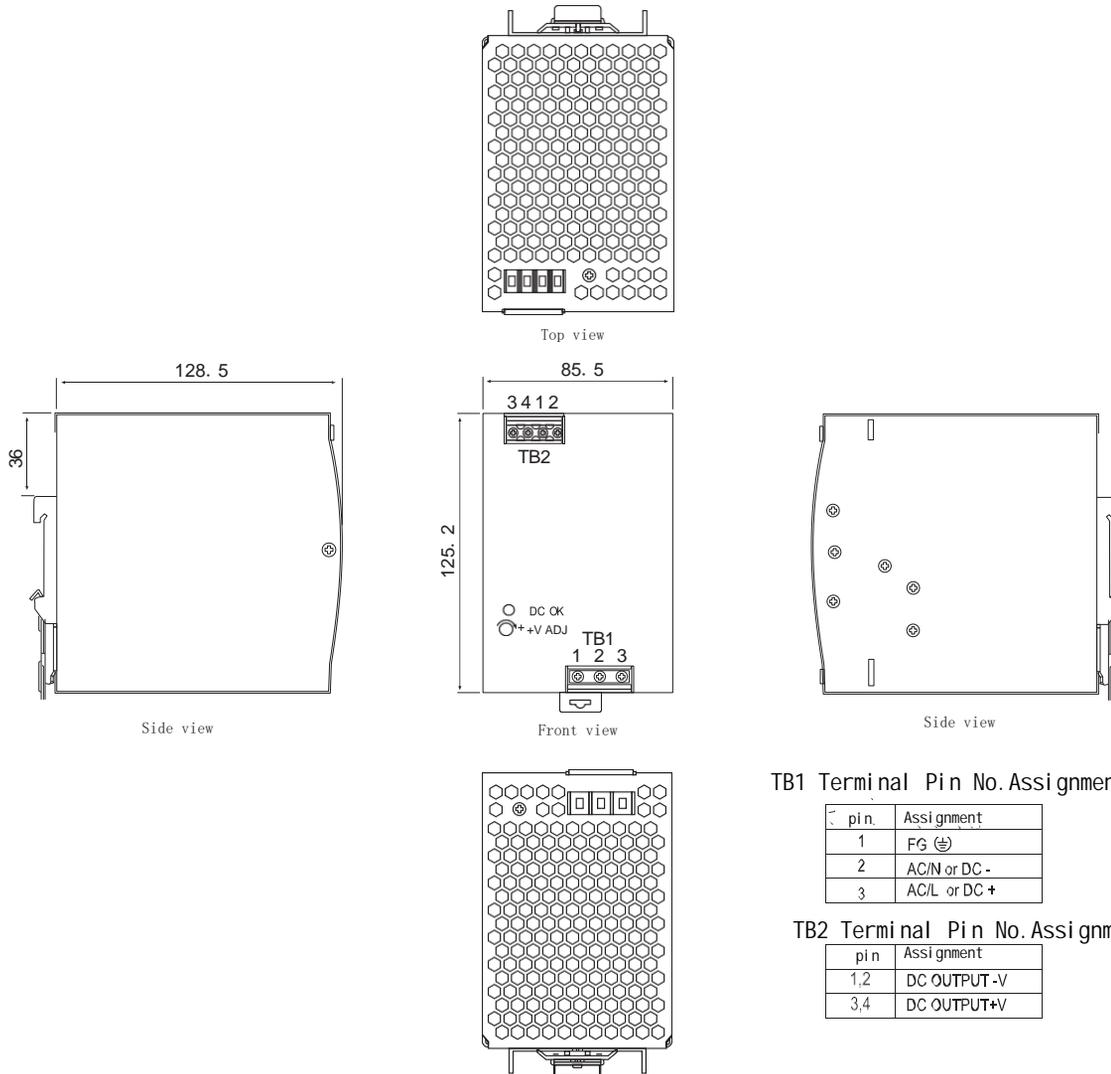
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (excluding information technology equipment)



## electrical specifications

Model		NDR-480-24c	NDR-480-36c	NDR-480-48c
Output	DC output voltage	24V	36V	48V
	Rated current	20A	13.4A	10A
	Current range	0~20A	0~13.4A	0~10A
	Rated power	480W	482.4W	480W
	Ripple & Noise (Max)	150mV <sub>p-p</sub>	150mV <sub>p-p</sub>	150mV <sub>p-p</sub>
	voltage adjustment range	21.6~26.4V	32.4~39.6V	43.2~52.8V
	voltage accuracy	±1%	±1%	±1%
	Linear adjustment rate	±0.5%	±0.5%	±0.5%
	Load Adjustment Ratio	±1.0%	±1.0%	±1.0%
	start-up & rise time	1500 ms,100 ms/230VAC      3000ms,100ms/115VAC (at full load)		
Holding time	20mS/230VAC 20mS/115VAC (at full load)			
Input	Input Voltage	95~ 264VAC      135~370VDC		
	Input frequency	50~60HZ		
	Power factor (Typ.)	PF>0.98/115VAC,PF>0.95/230VAC(at full load)		
	Efficiency	90%	91%	92%
	Input current	4.8A/115VAC      2.4A/230VAC		
	Leakage current	< 1mA/240VAC		
Protection	overload protection	100~105% of rated power Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions		
	Overvoltage protection	28.8~33.6V	41.4~48.6V	55.2~64.8V
		Protect mode: shut down the output voltage, restart to recover		
Function	Over-temperature protection	The output is switched off and the power supply can be restored from the start		
Environment	Operating temperature	-20°C ~+65°C		
	Operating humidity	20~90%RH No condensation		
	Storage temperature/humidity	-40~+80°C 10~95%RH, no condensation		
	Vibration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each		
Security	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC		
	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH		
Others	Product dimensions	85.5*125.2*128.5mm ( W*H*D )		
	Packaging	1.5kg/pcs		
	Remarks	<ol style="list-style-type: none"> <li>All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified.</li> <li>Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors at the end of a 12-inch twisted pair cable, measured at 20MHZ bandwidth.</li> <li>Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio.</li> <li>Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load</li> <li>Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load</li> <li>Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time.</li> <li>When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres</li> </ol>		

Outline and mounting dimensions (mm)



TB1 Terminal Pin No. Assignment

pin	Assignment
1	FG (⊕)
2	AC/N or DC -
3	AC/L or DC +

TB2 Terminal Pin No. Assignment

pin	Assignment
1,2	DC OUTPUT -V
3,4	DC OUTPUT +V

Pinout	Function	
L	AC LINE	Screw:M2.5*8.5 Torque:4Kgf.cm (0.4N.m)
N	AC NETURAL	
⊕	EARTH	
-V	DC output -	Screw:M2.5*8.5 Torque:4Kgf.cm (0.4N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

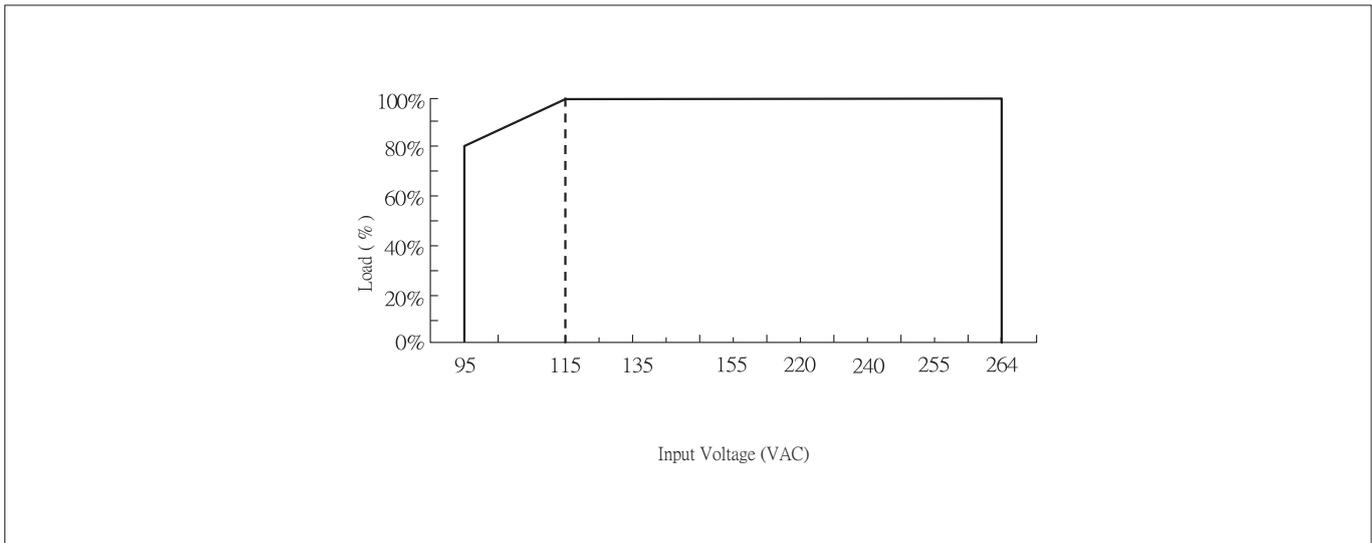
mounting holes for rail-type customer systems

Rail mounting: TS35/7.5 or TS35/15 Notes:

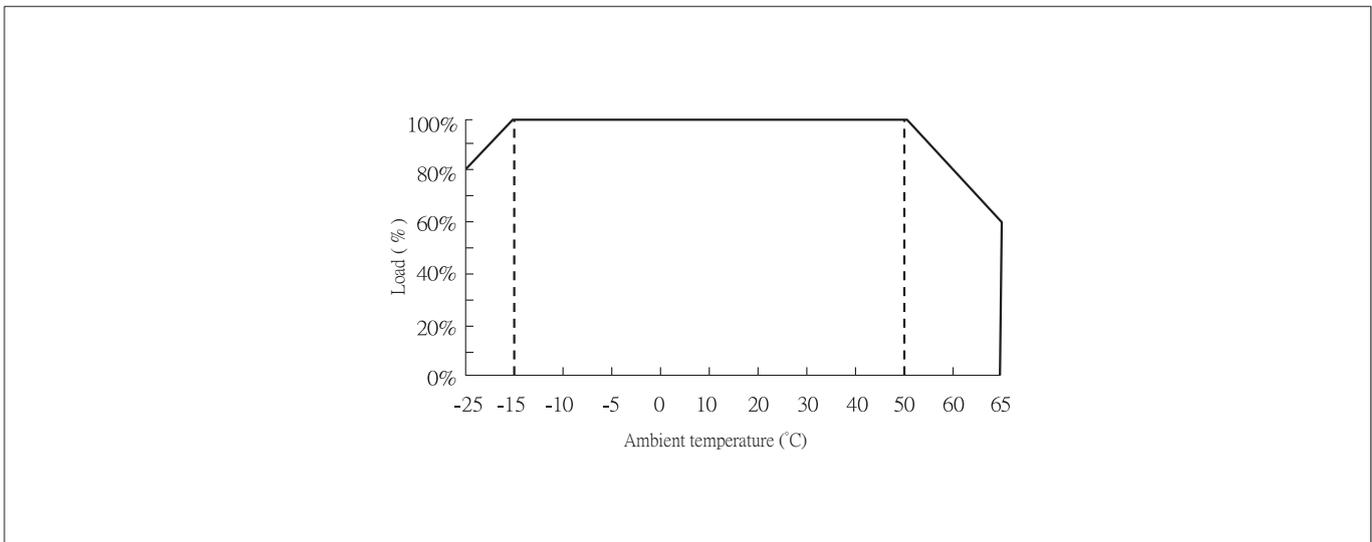
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

characteristic curve

Input Voltage VS Output Load



Ambient Temperature VS Output Load



Note

- 1.If you need more detailed test data, please contact our technical support to get the application notes of the corresponding products.
- 2.This product is suitable for use in a natural air convection environment, if used in a closed environment, please contact our technical support staff.