



Zhitao Group
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Industrial Din rail power supply

Product Specifications

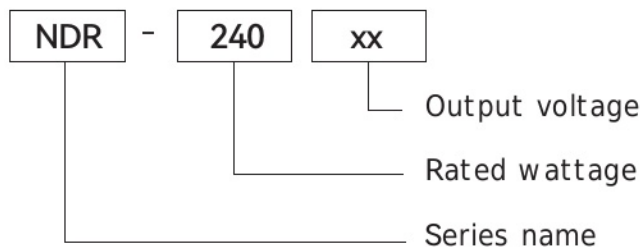
NDR-240

- Product category: 240W single-output Din rail switching power supply
- Version Number: ZTAO3.0
- Release date: May 1st, 2025

Product Overview

The NDR-240-XX series is a 240W industrial power supply for rail mounting. The entire series features wide-voltage AC/DC input and output voltages including 24V, 36V, and 48V, which can be adapted to different load application requirements to meet the needs of most industrial applications. With good conversion efficiency, a compact housing design, good heat dissipation, and comprehensive protection, this series ensures 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
- LED indicator for power on
- 100% full-load burn-in test
- Three-year warranty

Application fields

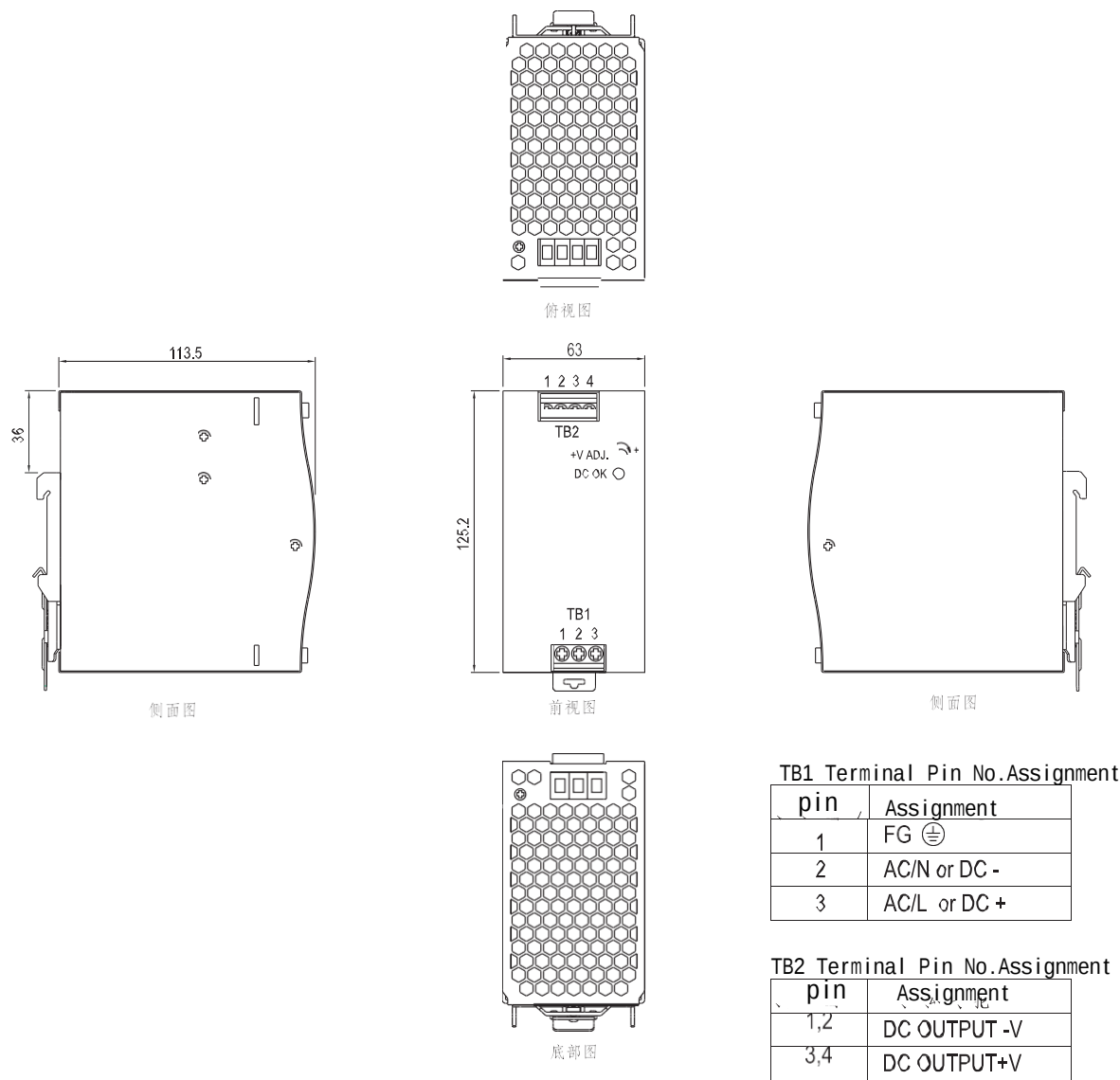
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (excluding information technology equipment)



electrical specifications

Model		NDR-240-24	NDR-240-36	NDR-240-48
Output	DC output voltage	24V	36V	48V
	Rated current	8A/115VAC	5.4A/115VAC	4A/115VAC
		10A/230VAC	6.7A/230VAC	5A/230VAC
	Current range	0~8A/115AC	0~5.4A/115AC	0~4A/115AC
		0~10A/230VAC	0~6.7A/230VAC	0~5A/230VAC
	Rated power	240W/230VAC	241.2W/230VAC	240W/230VAC
	Ripple & Noise (MAX)	200mVp-p	200mVp-p	240mVp-p
	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,60ms/230VAC 3000ms,100ms/115VAC (at full load)		
	Holding time	30mS/230VAC 22mS/115VAC (at full load)		
Input	Input Voltage	95~264VAC 135~370VDC		
	Input frequency	50~60HZ		
	Efficiency	87%	88%	88%
	Input current	2.6A/115VAC 1.7A/230VAC		
	Leakage current	< 1mA/240VAC		
Protection	overload protection	115~145% 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℃ ~+65℃		
	Operating humidity	20~90%RH No condensation		
	Storage temperature/humidity	-40~+80℃ 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℃ /70%RH		
Others	Product dimensions	63*125.2*113.5mm (W*H*D)		
	Packaging	0.9kg/pcs		
	Remarks	1. All parameters are measured at 230VAC input, rated load and 25℃ when not otherwise specified. 2. 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. 3. Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio. 4. Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load 5. Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load 6. Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time. 7. When operating at altitudes higher than 2000 metres (6500 ft): the operating environment needs to be reduced by 5℃/1000 metres		

Outline and Mounting Dimensions (mm)



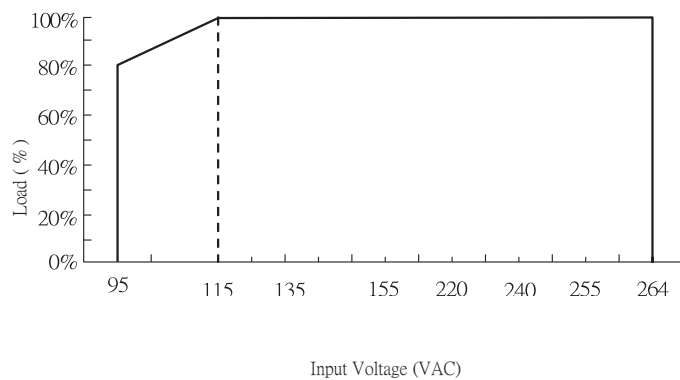
Pinout	Function	
L	AC LINE	Screw:M3*9.0 Torque:5Kgf.cm (0.5N.m)
N	AC NETURAL	
$\oplus$	EARTH	
-V	DC output -	Screw:M3*9.0 Torque:5Kgf.cm (0.5N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

mounting holes for rail-type customer systems
Rail mounting: TS35/7.5 or TS35/15 Notes:

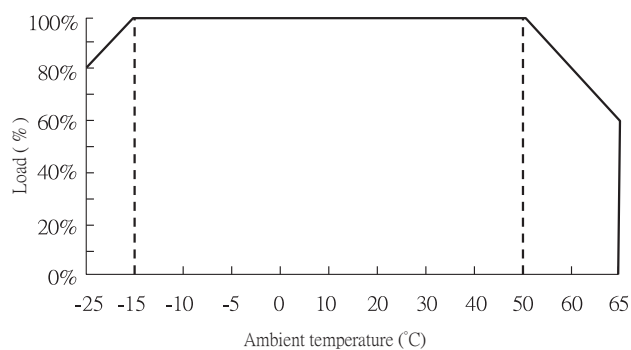
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

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.