



**Zhitao Group**  
ZHITAO GROUP

Industrial Din rail power supply

## Product Specifications

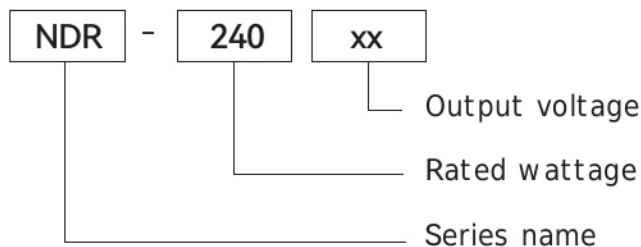
# NDR-240

- 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 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
- LED indicator for power on
- 100% full-load burn-in test
- Three-year warranty

### Application fields

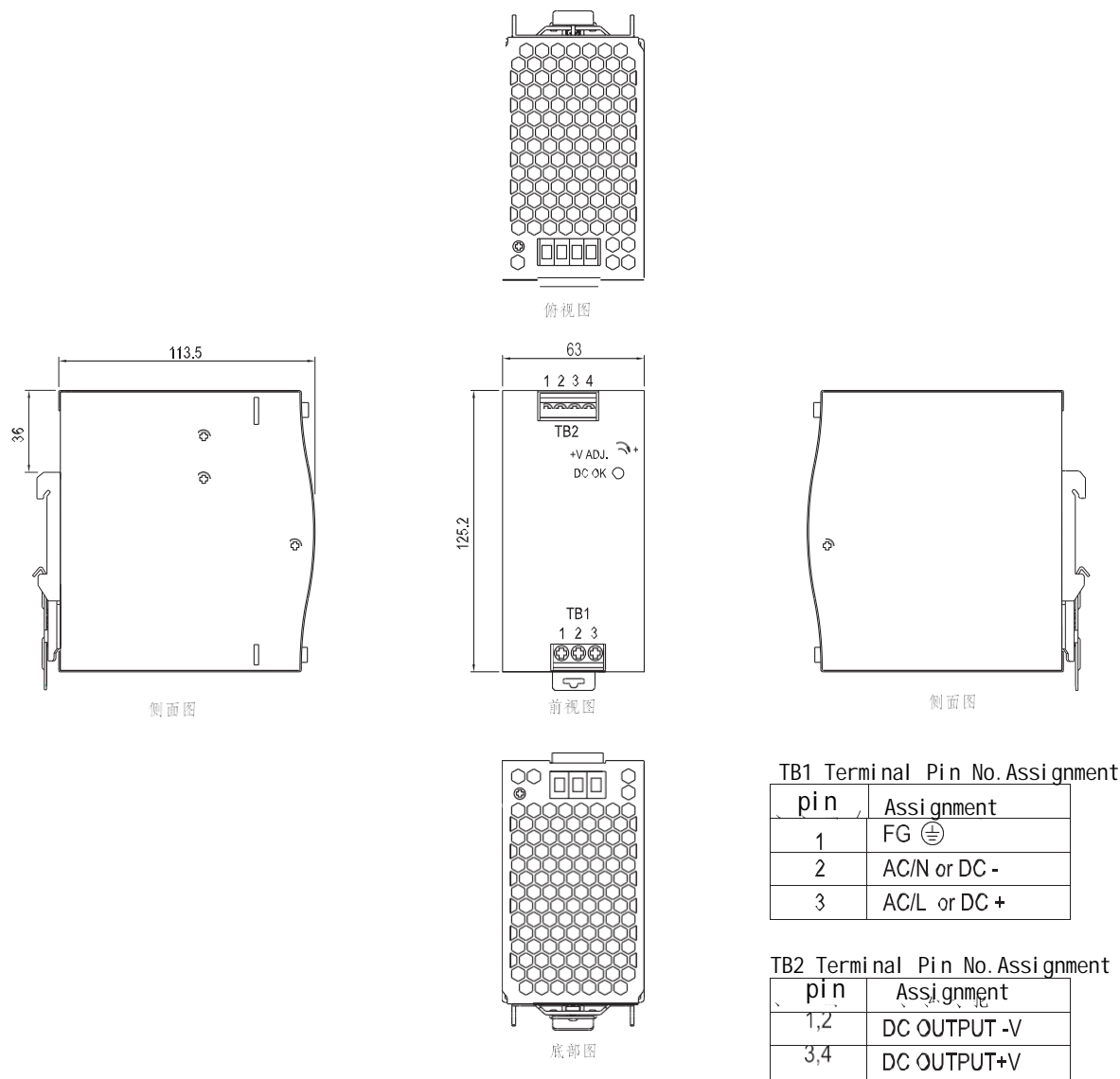
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (excluding information technology equipment)



## 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)



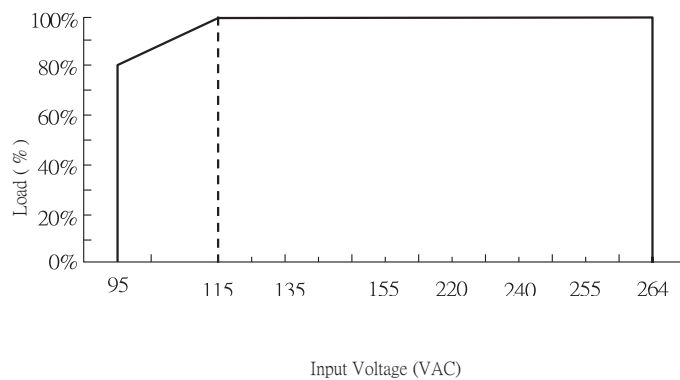
Pinout	Function	
L	AC LINE	Screw:M3*9.0 Torque:5Kgf.cm (0.5N.m)
N	AC NETURAL	
$\oplus$	EARTH	
-V	DC output -	Screw:M3*9.0 Torque:5Kgf.cm (0.5N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

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

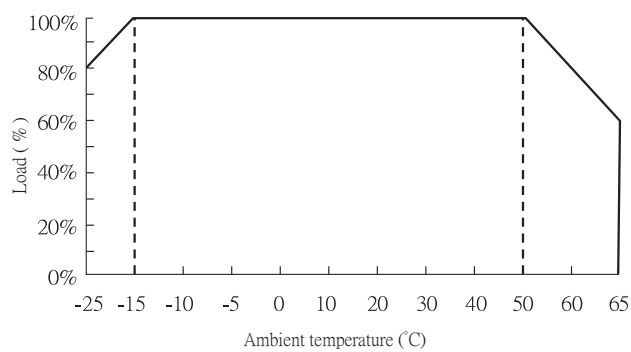
Unit: mm [inch]; unlabelled tolerances are  $\pm 0.5$  [ $\pm 0.020$ ].

#### 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.