Product Specifications

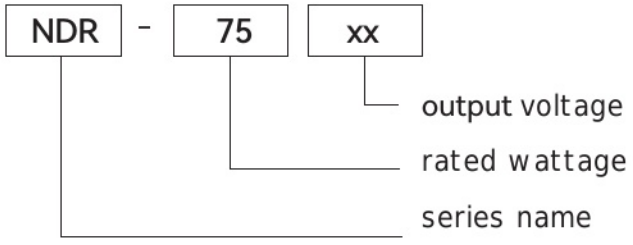
NDR-75

- Product category: 75W single-output Din rail switching power supply
- Version Number: ZTAO3.0
- Release date: May 1st, 2025

Product Overview

The NDR-75-XX series is a 75W industrial power supply for rail mounting. The entire series features wide-voltage AC/DC input, with output voltages including 12V, 24V, 36V, and 48V, catering to various load application requirements and meeting the needs of most industrial applications. It boasts high conversion efficiency, a compact housing design, excellent heat dissipation, and comprehensive protection, ensuring the high reliability and stability of this series of products.

Product Naming



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

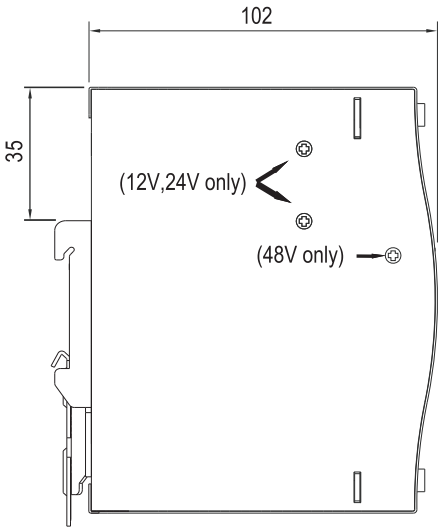
Application fields

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

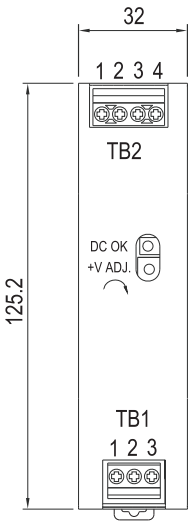
Electrical Specifications

	Model number	NDR-75-12	NDR-75-15	NDR-75-24	NDR-75-36	NDR-75-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	6.3A	5A	3.2A	2.1A	1.6A
	Current range	0 to 6.3 A	0~5A	0 to 3.2 A	0 to 2.1 A	0 to 1.6 A
	Rated power	75.6W	75W	76.8 W	75.6 W	76.8W
	Ripple & Noise (Max)	80mVp-p	80mVp-p	100mVp-p	120mVp-p	120mVp-p
	Voltage adj.range	10.2 to 13.8 volts	13.5 to 16.5 volts	21.6 to 26.4 volts	32.4 to 39.6 volts	43.2 to 52.8 volts
	Voltage accuracy	±1%	±1%	±1%	±1%	±1%
	Linear regulation rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load regulation rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Startup & Rise Time	1200ms,60ms/230VAC	2000 ms, 55 ms/115 VAC (under full load)			
	Retention time	60mS/230VAC	20mS/115VAC (full load)			
	Input voltage	90~264VAC	127~370VDC			
	Input frequency	50~60HZ				
	efficiency	86%	86%	89%	90%	90%
	Input current	1.45A / 115VAC	0.9A / 230VAC			
	Leakage current	< 1 mA / 240 VAC				
protection	Overload protection	120% to 150% of the rated power Protection mode: When Vo drops to the under-voltage point, it can automatically recover after the abnormal condition is removed.				
	Overvoltage protection	13.8 to 16.2 volts	18.7 to 21.7 volts	28.8 to 33.6 volts	41.4 to 48.6 volts	55.2 to 64.8 volts
		Protection mode: Turn off output voltage, restart to restore.				
Environmental working humidity	Working temperature	-20℃ to +65℃				
		No condensation at 20% to 90% RH				
	Storage temp/ humidity	-40~+80℃, 10 to 95% RH, no condensation				
	Anti-vibration	10 - 500 Hz, 5G for 10 minutes per cycle, 60 minutes each for X, Y, and Z.				
Safety	Pressure resistance	Input to output: 1.5 kVAC; Input to ground: 1.5 kVAC; Output to ground: 500 VAC				
	Insulation impedance	Input to output, input to ground, output to ground: 100 Ohms / 500VDC / 25℃ / 70%RH				
Others	Product dimensions	32 * 125.2 * 102 mm (W * H * D)				
	Packaging	0.4 kg per piece				
Note		1. Unless otherwise specified, all parameters are measured under the conditions of 230VAC input voltage, rated load and 25℃. 2. The ripple and noise voltage are measured with a 20MHz bandwidth oscilloscope, a 12-inch twisted pair wire with 0.1μF and 47μF capacitors at the end, and the measurement is conducted within a 20MHz bandwidth. 3. Accuracy: It includes setting error, linearity adjustment rate and load adjustment rate. 4. Linear regulation measurement method: Test from low voltage to high voltage under rated load. 5. Load regulation measurement method: from 0% to 100% of rated load 6.The startup time is measured under cold start conditions. Frequent and rapid on/off cycles may increase the startup time. 7. When operating at an altitude above 2000 meters (6500 ft): The operating environment temperature needs to be reduced by 5℃ for every 1000 meters increase in altitude.				

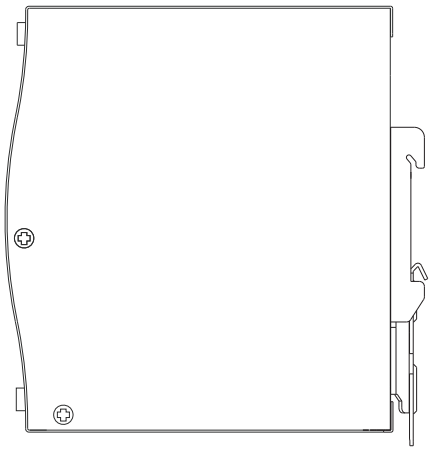
Appearance and Installation Dimensions (mm)



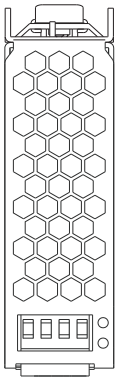
侧面图



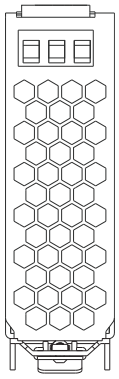
前视图



侧面图



俯视图



底部图

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

Pin	Function	
L	AC LINE	Screw: M3*9.0 Torque: 5Kgf.cn (0.5N.m)
N	AC NETURAL	
⏚	EARTH	
-V	DC output -	螺丝: M3*9.0 扭力: 5Kgf.cn (0.5N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

Guide rail type customer system installation hole

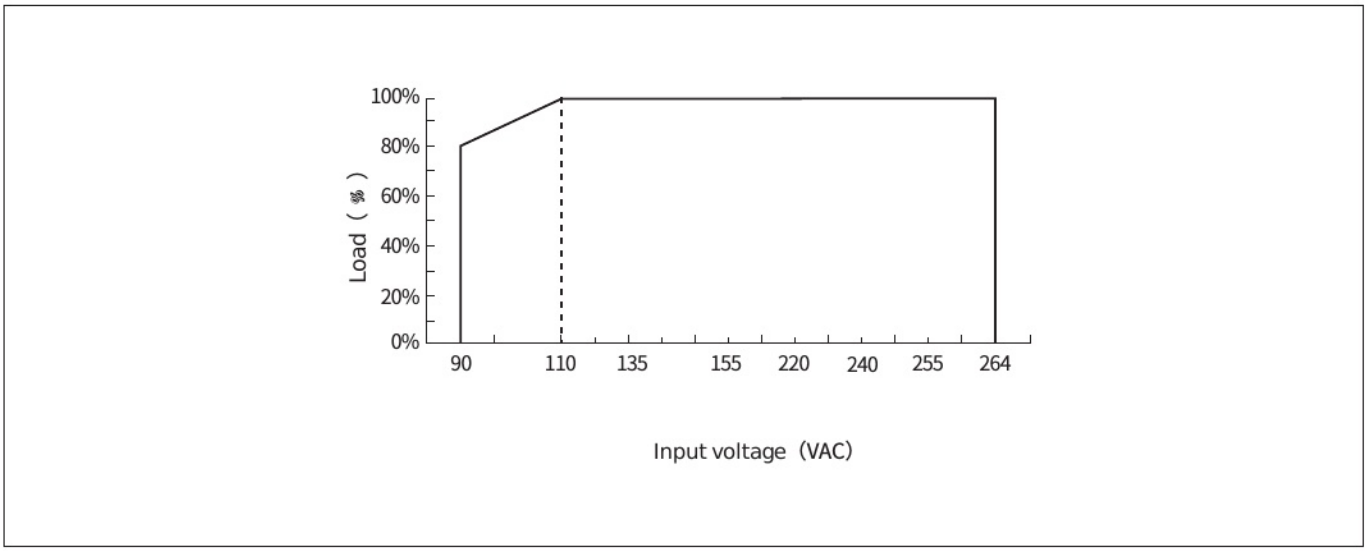
Guide rail installation: TS35/7.5 or TS35/15

Note:

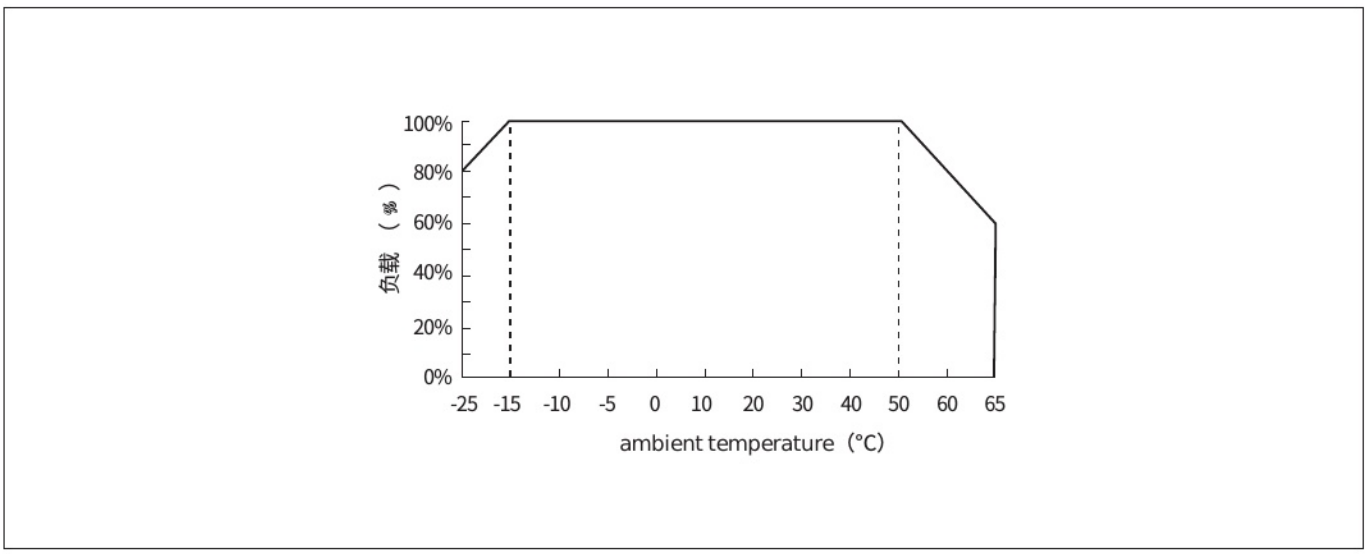
Unit: mm [inch]; Unmarked tolerance is ± 0.5 [± 0.020]

Characteristic curve

Input voltage VS output load



Ambient Temperature vs Output Load



Note:

If you need to know more detailed test data when applying, please contact our technical support to obtain the application notes for the corresponding products.

2. This product is suitable for use in a natural air convection environment. If it is to be used in a closed environment, please contact our technical support staff.