Industria Din rail power supply

Product Specifications

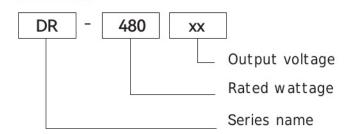
DR-480

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

Product Overview

The DR-480-XX series is a 480W rail-mounted industrial power supply with output voltages of 24V, 36V, 48V, etc. It can be adapted to different load application requirements to meet the needs of most industrial applications. With high conversion efficiency, excellent heat dissipation, and comprehensive protection, this series ensures high reliability and stability.

Product naming



Product features

- Input voltage range for AC: 175 264VAC
- Install guide rails: TS35/7.5 or TS35/15
- Protection types: Short circuit / Overload / Overvoltage
- Fan cooling
- 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)

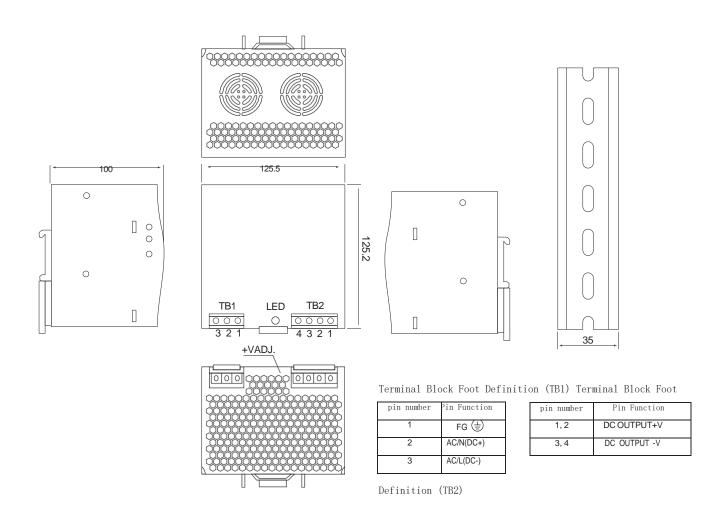


Electrical Specifications

	Model numbe	DR-480 -24	DR-480-36	DR-480-48	
Output	DC output voltage	24V	36V	48V	
	Rated current	20A	13.4A	10A	
	Current range	0~20A	0 to 13.4 A	0~10A	
	Rated power	480W	482.4W	480W	
	Ripple & Noise (Max)	240mVp-p	360mVp-p	360mVp-p	
	Voltage adj.range	21.6 to 26.4 volts	32.4 to 39.6 volts	43.2 to 52.8 volts	
	Voltage accuracy	$\pm 1\%$	±1%	±1%	
	Linear regulation rate	±0.5%	±0.5%	±0.5%	
	Load regulation	±1.0%	$\pm 1.0\%$	±1.0%	
	Startup & Rise Time	800 ms, 40 ms / 230 VAC (at full load)			
	Retention time	20mS/230VAC (at full load)			
Input	Input voltage	175~264VAC 135~370VDC			
	Input frequency	50~60HZ			
	efficiency	90%	91%	92%	
	Input current	5.5A / 230VAC			
	Leakage current	1 mA / 240 VAC			
	Overload protection	105% to 120% of the rated power			
protecti		Protection mode: hiccup protection, which can automatically resume after the abnormal condition is removed.			
protect	Overvoltage protection	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.			
	Over-temp protect	turn off the output. The device can resume operation after the power is restored.			
Function	n Fan on/off control (Typ.)	The fan starts when RTH3 is $\geq 50^{\circ}$ C and stops when it is $\leq 40^{\circ}$ C.			
Working temperature -20°C to +65°C					
Environ	vironmental working humidity 20% to 90% RH No condensation				
	Storage temp/ humidity	-40 to +80°C, 10 to 95% RH, no condensation			
	Anti-vibration	10 - 500 Hz, 5G, 10 minutes per cycle, 60 minutes each for X, Y, and Z.			
	Pressure resistance	Input to output: 1.5 kVAC; Input to ground: 1.5 kVAC; Output to ground: 500 VAC			
Safety	Insulation impedance	Input to output, input to ground, output to ground: 100 Ohms / 500VDC / 25°C / 70%RH			
	Product dimensions	125.5 * 125.2 * 100 mm (W * H * D)			
Others	Packaging	1.3 kilograms per piece			
	Note	All parameters, unless otherwise specified, are measured values obtained under the conditions of 230VAC input voltage, rated load and 25° C. The ripple and noise voltages were measured at the end of a 12-inch twisted pair with 0.1μ F and 47μ F capacitors attached, using a 20 MHz bandwidth oscilloscope. At a 20 MHz bandwidth, Take measurements.			
		Accuracy: It includes setting error, linearity adjustment rate and load adjustment rate. 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 5. Load regulation measurement method: from 0% to 100% of rated load			
		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°C for every 1000 meters increase in altitude.			



Appearance and Installation Dimensions (mm)



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

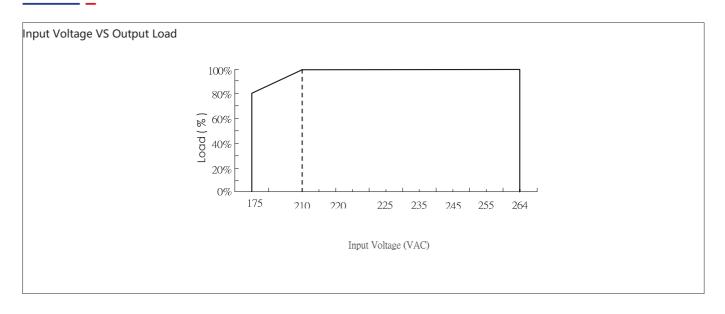
mounting holes for rail-type customer systems Rail mounting: TS35/7.5 or TS35/15

Remarks:

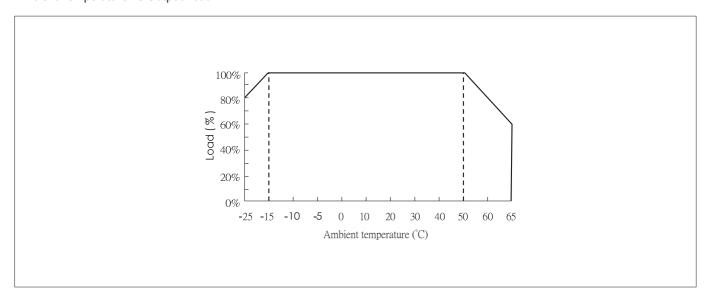
Unit: mm [inch]; unlabelled tolerances ±0.5 [±0.020].



Characteristic Curve



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.