



Zhitaogroup

ZHITAO GROUP

Industria DIN rail power supply

Product Specifications

DR-75

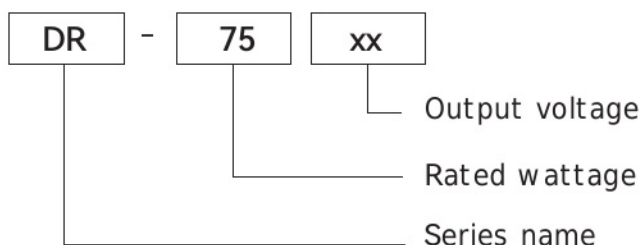
- Product category: 75W single-output Din railswitching power supply
- Version Number: ZTAO3.0
- Release date: May 1, 2025



Product Overview

The DR-75-XX series is a 75W industrial power supply for rail mounting. It features wide-range AC/DC input, output voltages including 12V, 24V, 36V, and 48V, and is adaptable to various load requirements, meeting the needs of most industrial applications. With good conversion efficiency, 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 TS35/15
- 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)



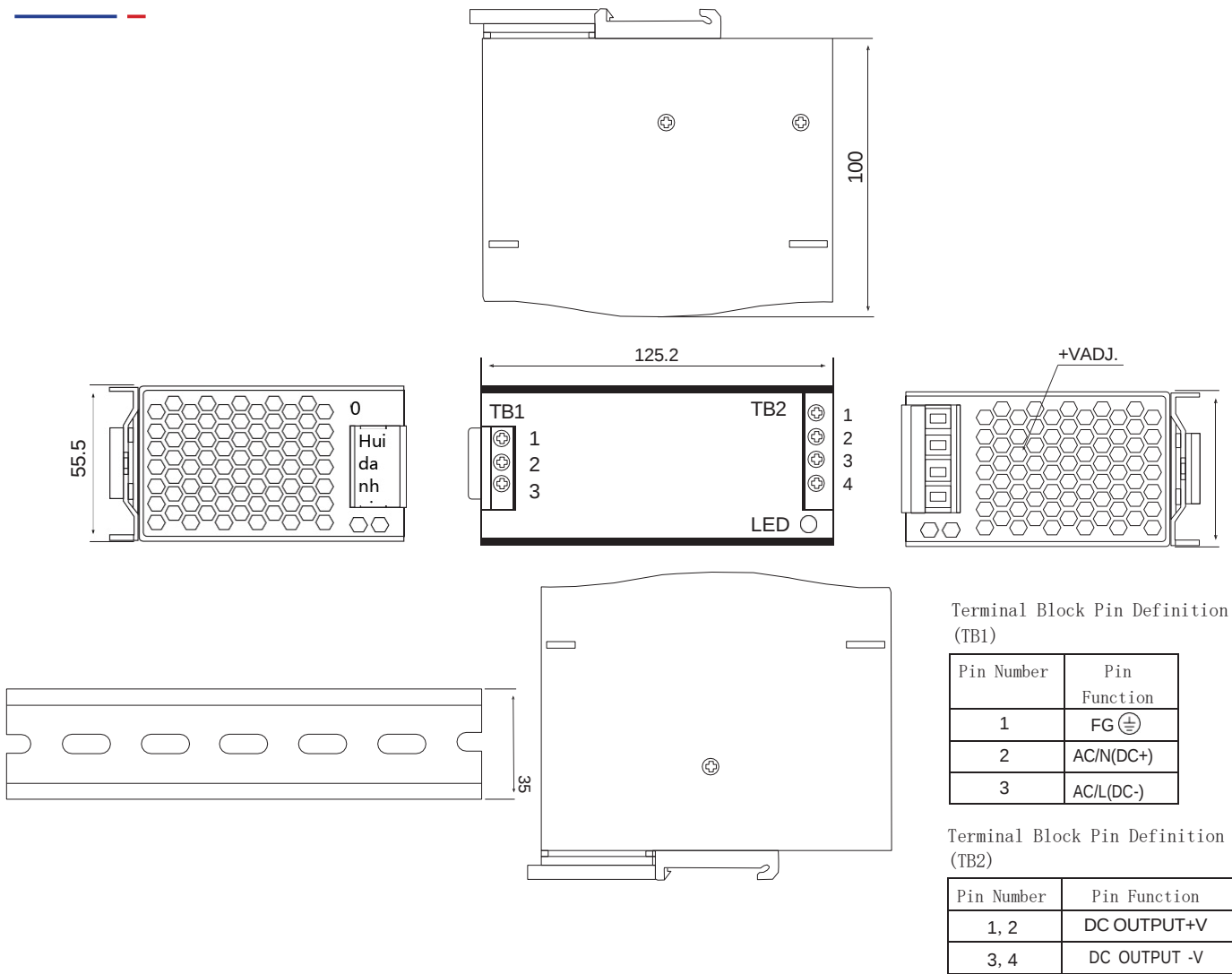
RoHS



Electrical Specifications

model		DR-75-12	DR-75-15	DR-75-24	DR-75-36	DR-75-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	6.3A	5A	3.2A	2.1A	1.6A
	Current range	0~6.3A	0~5A	0~3.2A	0~2.1A	0~1.6A
	Rated Power	75.6W	75W	76.8W	75.6W	76.8W
	Ripple & Noise(Max)	100mVp-p	120mVp-p	150mVp-p	240mVp-p	240mVp-p
	Voltage adjustment range	10.2~13.8V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V
	Voltage accuracy	±1%	±1%	±1%	±1%	±1%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Startup & Rise Time	1000 ms,60ms/230VAC 1800ms,55ms/115VAC (full load)				
	Keep time	60mS/230VAC 12mS/115VAC (at full load)				
Input	Input voltage	90~264VAC 127~370VDC				
	Input frequency	50~60HZ				
	efficiency	85%	86%	88%	89%	89%
	Input Current	1.6A/115VAC 0.96A/230VAC				
	Leakage Current	< 1mA/240VAC				
Protection	Overload protection	120~150% of rated power				
		Protection mode: hiccup protection, automatic recovery after abnormal conditions are removed				
	Overvoltage protection	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V
Environment	Operating temperature	-20℃ ~+65℃				
	Operating humidity	20~90%RH no condensation				
	Storage temperature/humidity	-40~+80℃ 10~95%RH, no condensation				
	Vibration resistance	10~500HZ,5G 10 minutes/cycle,X,Y,Z 60 minutes each				
	Pressure resistance	Input to output: 1.5KVAC; Input to ground: 1.5KVAC; Output to ground: 500VAC				
Safety	Insulation resistance	Input to output, input to ground, output to ground: 100 Ohms/500VDC/25℃/70%RH				
	Product size	55.5*125.2*100mm (W*H*D)				
Other	Package	0.5kg/pcs				
	Remark	1. All parameters, unless otherwise specified, are measured at 230VAC input voltage, rated load and 25℃. 2. The ripple and noise voltages are measured with a 20MHz bandwidth oscilloscope with 0.1μ and 47μ capacitors added to the ends of 12-inch twisted pair cables. The measurements are performed at a 20MHZ bandwidth. 3. Accuracy: includes setting error, line regulation and load regulation. 4. Linear regulation measurement method: Test from low voltage to high voltage under rated load 5. Load Regulation Measurement Method: From 0% to 100% rated load 6. The startup time is measured under cold start condition. Rapid and frequent power on and off may increase the startup time. 7. When the operating altitude is higher than 2000 meters (6500ft): the operating environment needs to be lowered by 5℃/1000 meters				

Appearance and Installation Dimensions (mm)



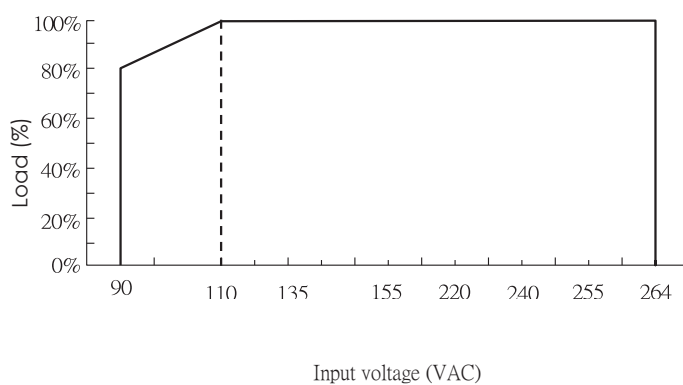
Pinout	Function	
L	AC LINE	Screw:M3*9.0 Torque:5Kgf.cm (0.5Nm)
N	AC NETURAL	
⊕	EARTH	
-V	DC output -	Screw: M3*9.0 Torque: 5Kgf.cm (0.5Nm)
-V	DC output -	
+V	DC output +	
+V	DC output +	

DIN rail type customer system mounting holes
Rail installation: TS35/7.5 or TS35/15

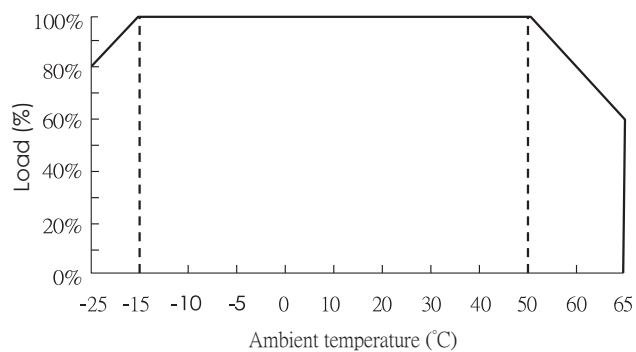
Remark:
Unit: mm [inch]; tolerance not specified is ±0.5 [±0.020]

Characteristic Curves

Input voltage vs output load



Ambient temperature vs output load



Note:

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