



Zhitao Group
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Industrial Din rail power supply

Product Specifications

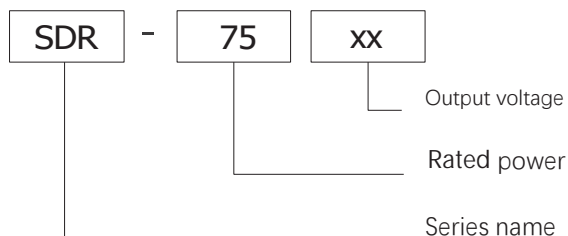
SDR-75

- Product Category: 75W Single Output Din Rail Power Supply
- Version No.: ZTAO3.0
- Release date: 1st May 2025

product overview

SDR-75-XX series products for a 75W rail industrial power supply, the whole series of products with a wide voltage AC and DC input, output voltage including 12V/24V/36V/48V, etc., can be adapted to different load application requirements to meet the needs of most industrial applications, high conversion efficiency, compact housing design, good heat dissipation, as well as a full range of protection, to ensure that this series of products of high reliability and stability. High conversion efficiency, compact housing design, good heat dissipation, and all-round protection guarantee the high reliability and stability of this series of products.

Model encoding



product characteristics

- International full range AC input
- Mounting rail: TS35/7.5 or 15
- Type of protection: short circuit/overload/overvoltage
- natural air-cooled
- Power on LED indicator
- 100% full load burn-in test
- 3-year warranty



RoHS



areas of application

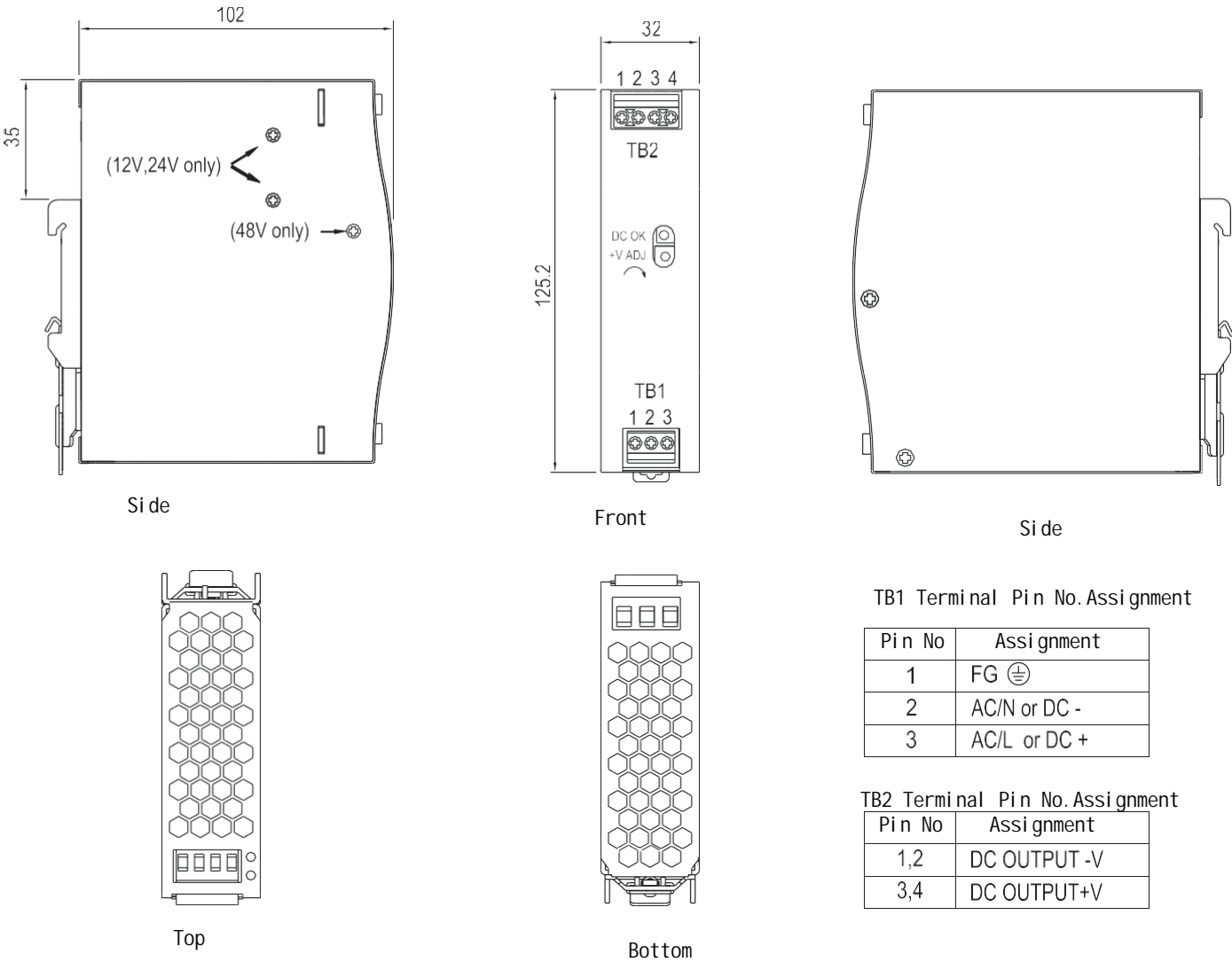
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

electrical specifications

Model		SDR-75-12	SDR-75-15	SDR-75-24	SDR-75-36	SDR-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)	80mVp-p	80mVp-p	100mVp-p	120mVp-p	120mVp-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%
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	start-up & rise time	1200 ms,60ms/230VAC 2000ms,55ms/115VAC (at full load)				
	Holding time	60mS/230VAC 20mS/115VAC (at full load)				
Input	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	< 3mA/240VAC				
Protection	overload protection	115~150% of rated power				
		Protection Mode: Vo drops to undervoltage point and automatically recovers when 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°C ~+65°C				
	Operating humidity	20~90%RH No condensation				
	Storage temperature/humidity	-40~+80°C 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°C /70%RH				
Others	Product dimensions	32*125.2*102mm (W*H*D)				
	Packaging	0.4kg/pcs				
Remarks		1. All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified. 2. Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1μ and 47μ 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 (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres				

Outline and mounting dimensions (mm)



Pinout	Function	
L	AC LINE	Screw:M2.5*8.5 Torque:4Kgf.cn (0.4N.m)
N	AC NETURAL	
\oplus	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

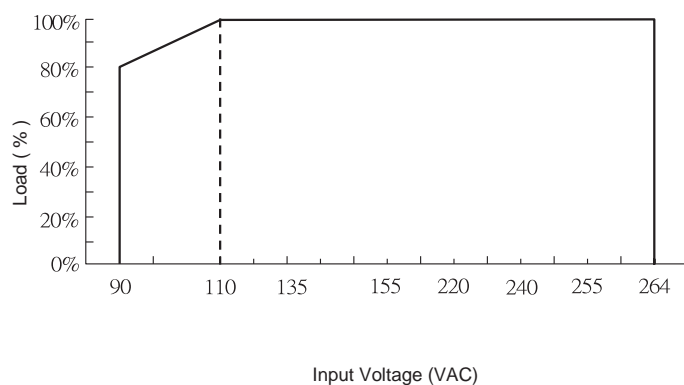
Rail mounting: TS35/7.5 or TS35/15

Notes:

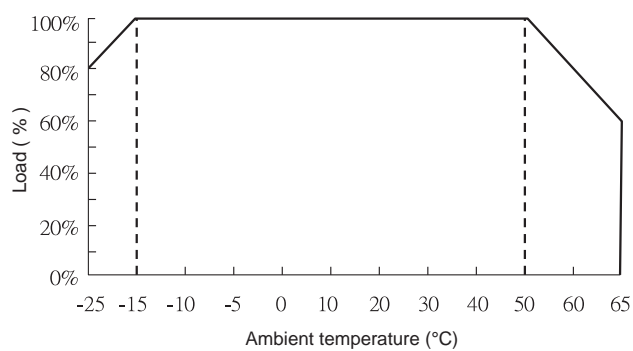
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

Characteristic Curve

Input Voltage VS Output Load



Ambient Temperature VS Output Load



Remarks:

- 1.If you need to know 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.