Industria Din rail power supply

**Product Specifications** 

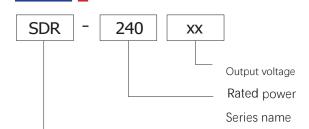
# **SDR-240**

- Product Category:240W Single Output Din Rail Power Supply
- Version No.:ZTAO3.0
- Release date: 1st May 2025

## product overview

SDR-240-XX series products for a 240W rail industrial power supply, the whole series of products with a wide range of voltage AC and DC input, output voltage, including 24V/36V/48V, etc., can be adapted to different load application requirements to meet the needs of most industrial applications, high convers ion efficiency, compact housing design, good heat dissipation, and a full range of protection to ensure that this series of products of high reliability and high stability. Stability.

## 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
- Built-in DC OK relay contact power start LED indicator
- 100% full load burn-in test
- 3-year warranty

## areas of application







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



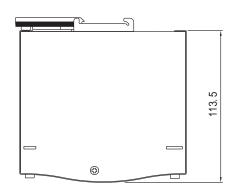


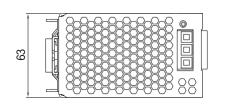
## electrical specifications

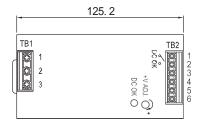
Model		SDR-240-24	SDR-240-36	SDR-240-48		
	DC output voltage	24V	36V	48V		
	Rated current	10A	6.7A	5A		
	Current range	0~10A	0~6.7A	0~5A		
Output	Rated power	240W	241.2W	240W		
	Ripple & Noise (Max)	320mVp-p	360mVp-p	360mVp-p		
	voltage adjustment range	21.6~26.4V	32.4~39.6V	43.2~52.8V		
	voltage accuracy	±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,1	00ms/115VAC (at full load)			
	Holding time	30mS/230VAC 22mS/115VAC (at full load)				
	Input Voltage	95~264VAC 135~370VDC				
Input	Input frequency	50~60HZ				
	Efficiency	88.5%	89%	90%		
	Input current	2.6A/115VA <b>C</b> 1.7 <b>A/230V</b> AC				
	Leakage current	< 3mA/240VAC				
	overload protection	115~145% of rated power				
Protec tion	overledd protestion	Protect mode: shut down the output, abnormal conditions are removed and can be restored after power failure and restart				
	Overvoltage	28.8~33.6V	41.4~48.6V	55.2~64.8V		
	protection	Protect mode: shut down the output voltage, restart to recover				
Fun et:	DC OK signal	Relay contact (max.): 30V1A resistive load				
Functi on	Over-temperature protection	The output is switched off and the power supply can be restored from the start				
	Operating temperature	-20°C ~+65°C				
Enviro nment	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				
Securi	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC				
ty	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH				
Others	Product dimensions	63*125.2*113.5mm (W*H*D)				
	Packaging	1.0kg/pcs				
	Remarks	<ol> <li>All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified.</li> <li>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.</li> <li>Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio.</li> <li>Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load</li> <li>Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load</li> <li>Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time.</li> <li>When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres</li> </ol>				

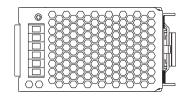


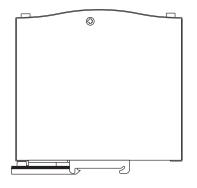
## Outline and Mounting Dimensions (mm)











Terminal Pin No. Assignment(TB1)

pin	Assignment
number	
1	FG 🖶
2	AC/N
3	AC/L

Terminal Pin No. Assignment (TB2)

	•
pin number	assignment
1,2	relay contacts
3,4	DC OUTPUT -V
5,6	DC OUTPUT +V

Pinout	Function		
L	AC LINE	Screw:M3*9.0 Torque:5Kgf.cn (0.5N.m)	
N	AC NETURAL		
	EARTH		
-V	DC output -	Screw:M3*9.0 Torque:5Kgf.cn (0.5N.m)	
-V	DC output -		
+V	DC output +		
+V	DC output +		
DC OK	relay contacts		

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

Notes:

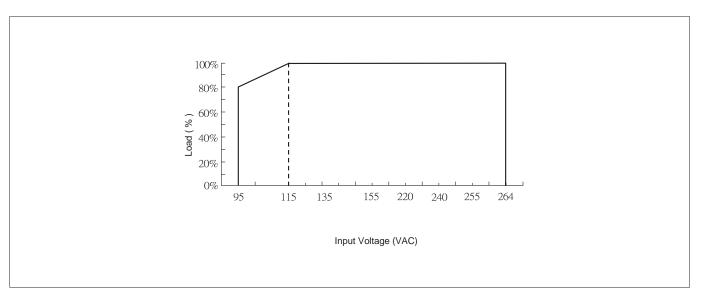
Unit: mm [inch]; unlabelled tolerances are  $\pm 0.5$  [ $\pm 0.020$ ].

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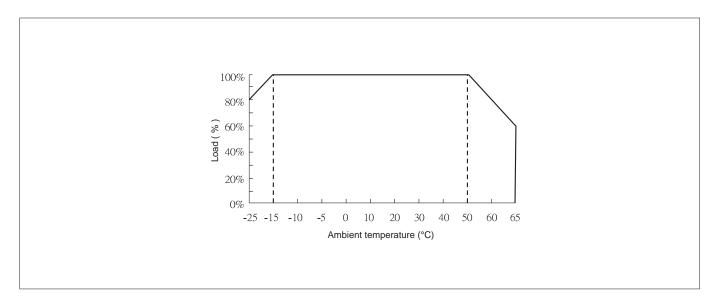


### Characteristic Curve

## 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.