Industria Din rail power supply

Product Specifications

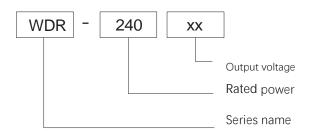
WDR-240

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

product overview

WDR-240-XX series is a 240W rail industrial power supply, the whole series can accept 200~500 VAC wide voltage input range, output voltageinclu ding 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 the high reliability and stability of this series of products. 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

- Wide voltage input of 200~500VAC in one or two phases
- 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)





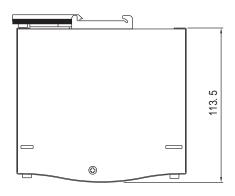
electrical specifications

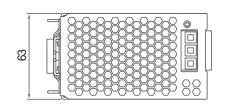
	Model	WDR-240-24	WDR-240-36	WDR-240-48		
	DC output voltage	24V	36V	48V		
	Rated current	10A	6.7A	5A		
	Current range	0~10A	0~6.7A	0~5A		
Output	Rated power	240W	241.2W	240W		
	Ripple & Noise (Max)	240mVp-p	320mVp-p	320mVp-p		
	voltage adjustment range	21.6~26.4V	32.4~39.6V	43.2~52.8V		
	voltage accuracy	±1%	±1%	±1%		
	Linear adjustment rate	±0.5%	±0.5%	±0.5%		
	Load Adjustment	±1.0%	±1.0%	±1.0%		
	Ratio start-up & rise time	1000 ms,200ms/400VAC 1800ms	;,200ms/230VAC (at full load)			
	Holding time	15mS/400VAC 15mS/230VAC (at full load)				
	Input Voltage	200~500VAC 280~700VDC				
Input	Input frequency	50~60HZ				
	Efficiency	87%	88.5%	89%		
	Input current	1.0A/400VAC 2.0A/230VAC				
	Leakage current	< 3mA/240VAC				
		105~135% of rated power				
Protec						
tion	0	28.8~33.6V	41.4~48.6V	55.2~64.8V		
	Overvoltage protection	Protect mode: shut down the output voltage, restart to recover				
	DC OK signal	Relay contact (max.): 30V1A resistive load				
Functi on Over-temperature protection The output is switched off and the power supply		The output is switched off and the power supply can l	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	Product dimensions 63*125.2*113.5mm (W*H*D)				
	Packaging	1.0kg/pcs				
	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 of 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					

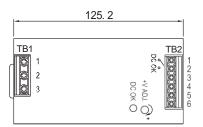
01-02

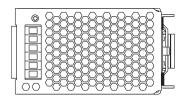


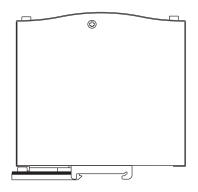
Outline and Mounting Dimensions (mm)











Terminal Pin No. Assignment((TB1)

pin numbe	Assignment
r	
1	FG⊕
2	AC/L2
3	AC/L1

Terminal Pin No. Assignment((TB2)

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

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

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

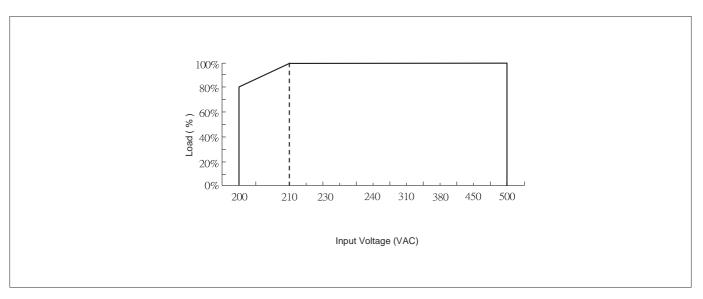
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

01-03

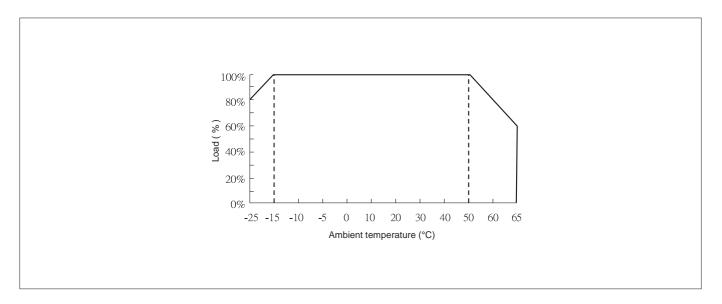


Characteristic Curve

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.