Industria Din rail power supply

Product Specifications

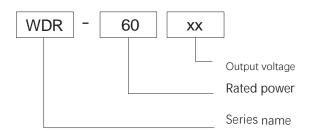
WDR-60

- Product Category:60W Single Output Din rail switching power supply
- Version No.:ZTAO3.0
- Release date: 1st May 2025

product overview

WDR-60-XX series is a 60W rail industrial power supply, the whole series can accept 200–500 VAC wide voltage input range, 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 p rotection, to ensure the high reliability and stability of this series. 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
- DC OK relay contacts
- naturally air-cooled
- Power on 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)



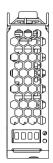
electrical specifications

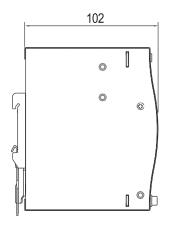
Model		WDR-60-12	WDR-60-15	WDR-60-24	WDR-60-36	WDR-60-48	
Outp ut	DC output voltage	12V	15V	24V	36V	48V	
	Rated current	5.0A	4A	2.5A	1.7A	1.25A	
	Current range	0~5.0A	0~4A	0~2.5A	0~1.7A	0~1.25A	
	Rated power	60W	60W	60W	61.2W	60W	
	Ripple & Noise (Max)	80mVp-p	80mVp-p	100mVp-p	120mVp-p	120mVp-p	
	voltage 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	1000 ms,70ms/400VAC 2000ms,70ms/230VAC (at full load)					
	Holding time	10mS/400VAC 10mS/230VAC (at full load)					
	Input Voltage	200~ 500VAC 280~700VDC					
	Input frequency	50~60HZ					
Input	Efficiency	83%/400Vac	83.5%/400Vac	86.5%/400Vac	89%/400Vac	89%/400Vac	
	Input current	0.4A/400VAC 0.7A	/230VAC				
	Leakage current	< 3mA/240VAC					
	overload protection	105~125% of rated power					
Prote		Protection mode: hiccup	protection, automatic rec	covery after removal of abr	ormal conditions		
ction	Overvoltage protection	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V	
		Protect mode: shut down the output voltage, restart to recover					
Functio n	DC OK signal	Relay contact (max.): 30V/1A resistive load					
envir	Operating temperature	-20°C ~+65°C					
onme	Operating humidity	20~90%RH No condensation					
ntal prope rties	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					
Secu	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC					
rity	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH					
Other	Product dimensions	32*125.2*102mm (W*H*D)					
Other s Packaging 0.4kg/pcs							
Remarks		 All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified. 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. Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio. Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time. When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres 					

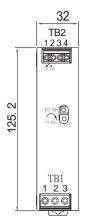
01-02

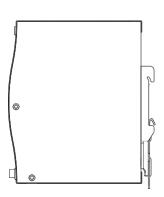


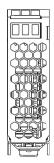
Outline and Mounting Dimensions (mm)











Terminal Pin No. Assignment (TB1)

pin No	Assignment
1	FG⊕
2	AC/L2
3	AC/L1

Terminal Pin No. Assignment(TB2)

pin	Assignment
No	
1,2	relay contacts
3	DC OUTPUT -V
4	DC OUTPUT +V

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

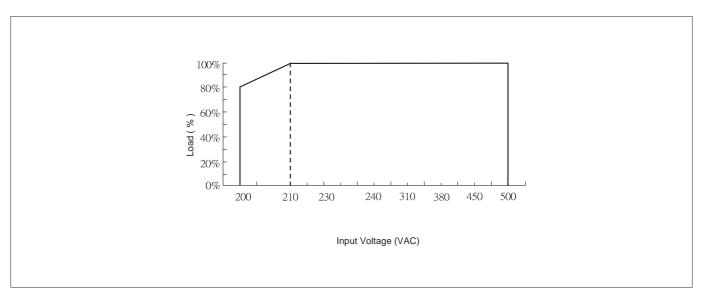
mounting holes for rail-type customer systems Rail mounting: TS35/7.5 or TS35/15 Notes:

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

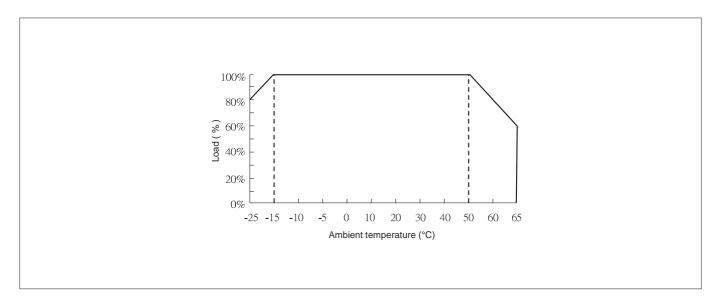


Characteristic Curve

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.