Industria Din rail power supply

Product Specifications

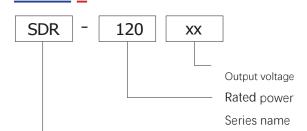
SDR-120

- Product Category:120W Single Output Din Rail Power Supply
- Version No.:ZTAO3.0
- Release date: 1st May 2025

product overview

SDR-120-XX series products for a 120W rail industrial power supply, the whole series of products with a wide voltage AC and DC input, output volta ge including 12V/24V/36V/48V, etc., can be adapted to different load applic ation 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
- Protection type: short
- circuit/overload/overvoltage with built-in
- DC OK relay contacts
- Natural 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 in formation technology equipment)



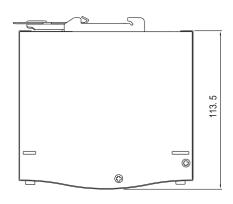
electrical specifications

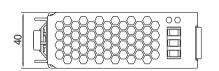
Model		SDR-120-12	SDR-120-15	SDR-120-24	SDR-120-36	SDR-120-48	
	DC output voltage	12V	15V	24V	36V	48V	
Outp	Rated current	10A	8A	5A	3.4A	2.5A	
	Current range	0~10A	0~8A	0~5A	0~3.4A	0~2.5A	
	Rated power	120W	120W	120W	122.4W	120W	
	Ripple & Noise (Max)	100mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	
	voltage 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 2500ms,60ms/115VAC (at full load)					
	Holding time	16mS/230VAC 12mS/115VAC (at full load)					
	Input Voltage	90~264VAC 127~370VDC					
	Input frequency	50~60HZ					
nput	Efficiency	86%	86%	88%	88.5%	89%	
	Input current	2.25A/115VA C	1.3A/230VAC				
	Leakage current	<2.5mA/240VAC					
		120~150% of rated power					
Prote ction	overload protection	Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions					
	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					
unctio n	DC OK signal	Relay contact (max.): 30V/1A resistive load					
Envir onme nt	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					
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					
Othor	Product dimensions	40*125.2*113.5mm (W*H*D)					
Other s	Packaging	0.5kg/pcs					
	Remarks	Ripple and noise voltage twisted pair cable, measure Accuracy: Includes setti Linear Adjustment Ratio Load Adjustment Ratio Start-up time is measure	es were measured on a 20 ed at 20MHZ bandwidth. ng error, linear adjustmen Measurement Method: To Measurement Method: Fro ed at cold start, fast and fr	ted load and 25°C when not on the comment of the co	e with 0.1µ and 47µ capacito atio. voltage at rated load may increase the start-up tim	ie.	

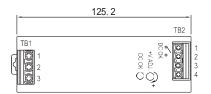
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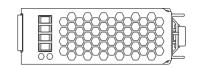


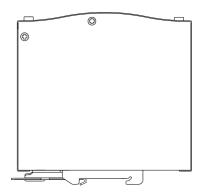
Outline and Mounting Dimensions (mm)











Terminal Pin No. Assignment(TB2)

pin number	Assignment
1, 2	relay contacts
3	DC OUTPUT -V
4	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 -		
+V	DC output +	Screw:M3*9.0	
DC OK	relay contacts	Torque:5Kgf.cn (0.5N.m)	

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

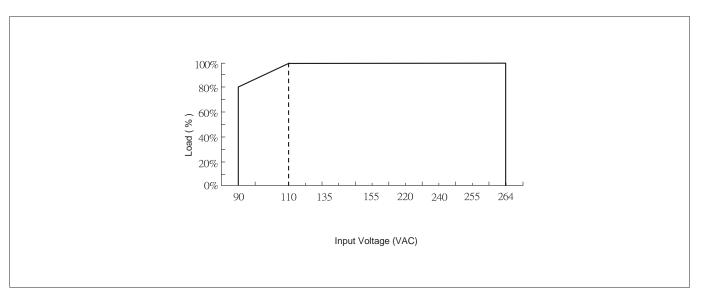
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

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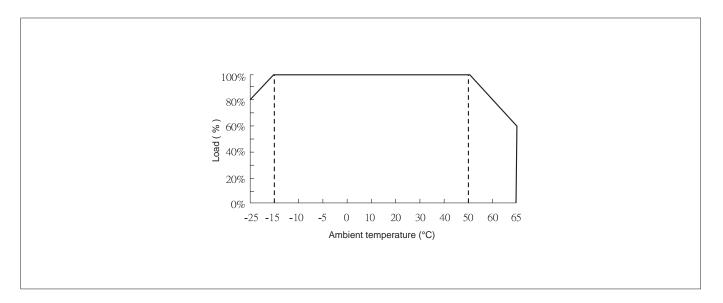


Characteristic Curve

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.