

# Zhitao Group

ZHITAO GROUP

Industrial Power Supplies

### Product Specifications

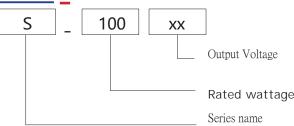
**S-100** 

- Product Category:100W Single Output Power Supply Version No.:ZTAO3.0
- Release date: 1st May 2025

### product overview

S-100-XX series products for a 100W chassis-type industrial power supply, the output voltage including 5V/12V/24V/36V/48V, etc., can be adapted to different load application requirements to meet the needs of most industrial applications, self-cooling heat dissipation, as well as a full range of protection, to ensure that this series of products of high reliability and stability.







- The AC range input is switched via the switch
- Type of protection: short circuit/overload/overvoltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test 3-year warranty



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

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### Zhitao Power Supply - is not just a full power supply

## 400-888-6287

CE FC ROHS



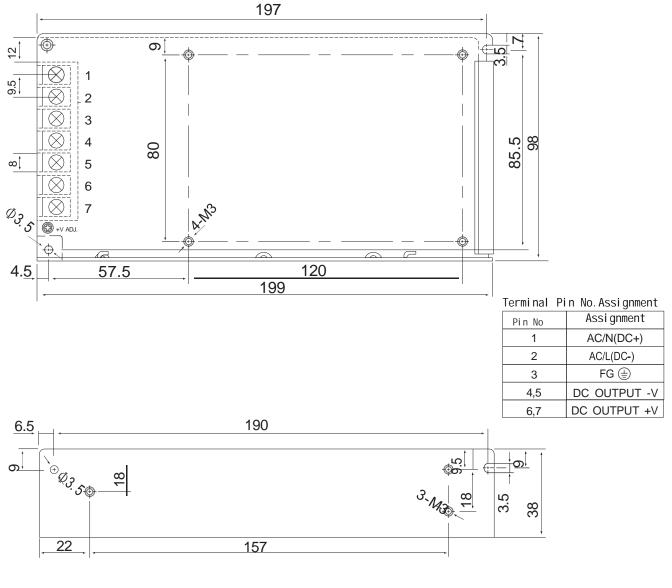
### electrical specifications

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	Model	S-100-5	S-100-12	S-100-15	S-100-24	S-100-36	S-100-48	
Output	DC output voltage	5V	12V	15V	24V	36V	48V	
	Rated current	20A	8.5A	6.7A	4.5A	2.8A	2.1A	
	Current range	0~20A	0~8.5A	0~6.7A	0~4.5A	0~2.8A	0~2.1A	
	Rated power	100W	102W	100.5W	108W	100.8W	100.8W	
	Ripple & Noise (Max)	100mVp-p	100mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-р	
	voltage adjustment range	4.5~5.5V	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%	±1%	
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	start-up & rise time	800ms,30ms/230VAC 1000ms,30ms/115VAC(at full load)						
	Holding time	50mS/230VAC;20mS/115VAC (at full load)						
	Input Voltage	85~132VAC/170~264VAC selectable by switch 240~370VDC(switc on 230VAC)						
Input	Input frequency	50~60HZ						
	Efficiency	78%	86%	86%	89%	90%	90%	
	Input current	2.0A/115VA <b>C</b> 1.0A/230VAC						
	Leakage current	< 1mA/240VAC						
Prote ction	overload protection	125~150% of rated power						
	evenieua protection	Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions						
	Overvoltage	5.9~7.3V	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V	
	protection	Protect mode: shut down the output voltage, restart to recover						
Envir onme nt	Operating temperature	-20°C <b>~+65</b> °C						
	Operating humidity	20~90%RH No condensation						
	Storage temperature/humidity	-40~+80°C 10~95%RH, no condensation						
	Resistant to vibration	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each						
Securit y	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	199*98*38mm (L*W*H)						
	Packaging	0.5kg/pcs						
	Remarks	<ol> <li>Ripple and noise vo pair cable, measured at</li> <li>Accuracy: Includes</li> <li>Linear Adjustment I</li> <li>Load Adjustment R</li> <li>Start-up time is mea</li> </ol>	Itages were measured on 20MHZ bandwidth. setting error, linear adjus Ratio Measurement Meth atio Measurement Metho Isured at cold start, fast a	tment ratio and load adju od: Test from low voltag d: From 0% to 100% of r nd frequent switching on	illoscope with 0.1 $\mu$ and 4 stment ratio. e to high voltage at rated 1	load start-up time.		



Outline and Mounting Dimensions (mm)



Pinout	Function			
L	AC LINE	Screw:M4*9.5 Torque:22Kgf.cn( 2 2N.m)		
Ν	AC NETURAL			
	EARTH			
-V	DC output -	Screw:M4*9.5 Torque:22Kgf.cn( 2 2N.m)		
-V	DC output -			
+V	DC output +			
+V	DC output +			

8-M3 Customer system mounting holes mounting screws:M3 Installation torque: 8Kgf.cn (0.8N.m) screws into the housing is not more than 3mm Remarks: Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

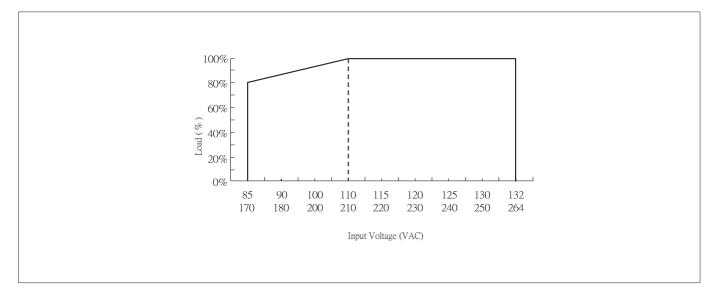
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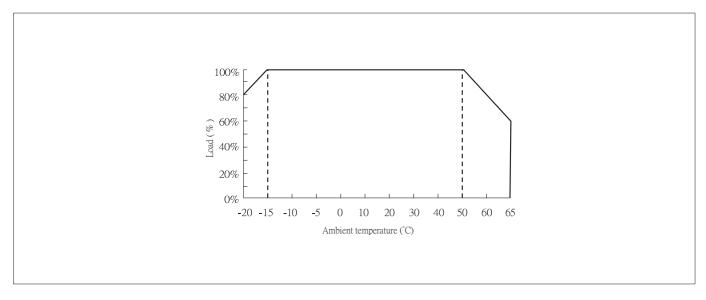


Characteristic Curve

### Input Voltage VS Output Load



#### Ambient Temperature VS Output Load



#### Note:

1.If you need 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.

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