

Zhitao Group

ZHITAO GROUP

Industrial Power Supplies

Product Specifications

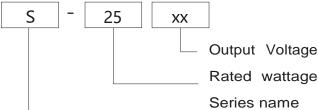
S-25

- Product Category:25W Single Output Power Supply
- Version No.:ZTAO3.0
- Release date: 1st May 2025

Product Overview

S-25-XX series products for a 25W 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 most of the 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 high stability.

Model encoding



Product Characteristics

- International full-wide AC inputs
- 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

Areas of Application

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

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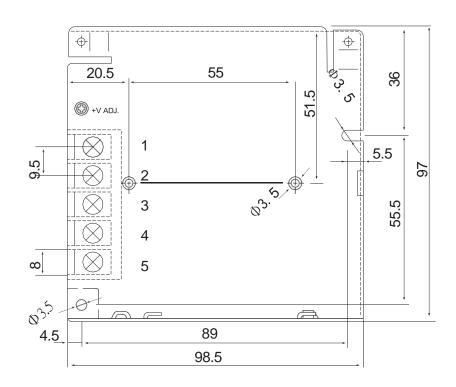


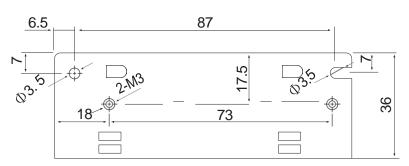
electrical specifications

	Model	S-25-5	S-25-12	S-25-15	S-25-24	S-25-36	S-25-48	
Output	DC output voltage	5V	12V	15V	24V	36V	48V	
	Rated current	5A	2.1A	1.7A	1.1A	0.7A	0.53A	
	Current range	0~5A	0~2.1A	0~1.7A	0~1.1A	0~0.7A	0~0.53A	
	Rated power	25W	25.2W	25.5W	27.5W	25.2W	25.44W	
	Ripple & Noise (Max)	80mVp-p	80mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-p	
	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	1000ms,30ms/230VAC 1000ms,30ms/115VAC(at full load)						
	Holding time	50mS/230VAC;15mS/115VAC (at full load)						
.	Input Voltage	85~264VA C 120~370 VDC						
	Input frequency	50~60HZ						
Input	Efficiency	80%	83%	83%	85.5%	86%	87%	
	Input current	0.6A/115VA C 0.3A/230VAC						
	Leakage current	< 1mA/240VAC						
	overload protection	125~150% of rated power						
Prote	Overload protection	Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions						
ction	O14	5.9~7.3V	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V	
	Overvoltage protection	Protect mode: shut down the output voltage, restart to recover						
	Operating temperature	-20°C ~ +65 °C						
Envir onme	Operating humidity	20~90%RH No condensation						
nt	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						
Securit	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						
2.1	Product dimensions	99*97*36mm (L*W*H)						
Others	Packaging	0.25kg/pcs						
	Remarks	Ripple and noise vo pair cable, measured at 3. Accuracy: Includes 4. Linear Adjustment R 5. Load Adjustment R 6. Start-up time is measured at the start-up time is measured.	Itages were measured on 20MHZ bandwidth. setting error, linear adjus Ratio Measurement Metho asured at cold start, fast a	at, rated load and 25°C w a 20MHz bandwidth osci tment ratio and load adju od: Test from low voltage d: From 0% to 100% of r nd frequent switching on	stiment ratio. The to high voltage at rated ated load and off may increase the	47μ capacitors at the en load start-up time.		



Outline and Mounting Dimensions (mm)





Terminal Pin No. Assignment

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Pin No	Assignment				
5	AC/N(DC+)				
4	AC/L(DC-)				
3	FG 🖶				
2	DC OUTPUT -V				
1	DC OUTPUT +V				

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

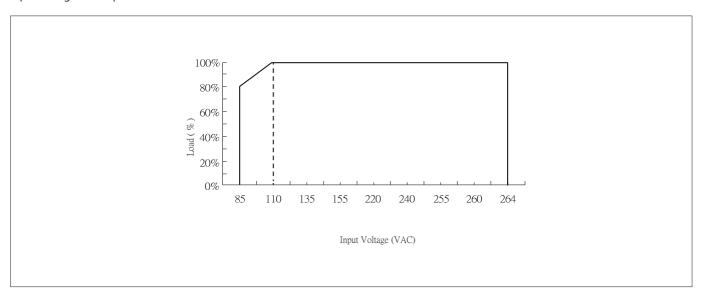
Remarks:

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

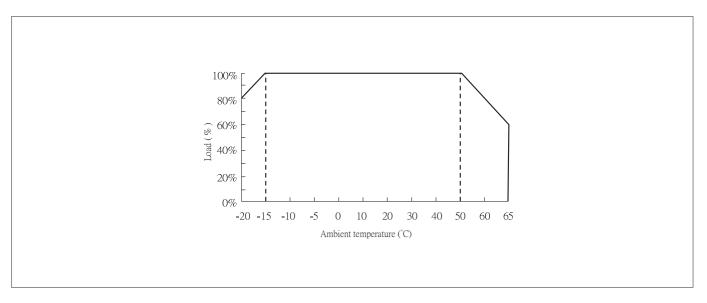


Characteristic Curve

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.