



Zhitao Group
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Industrial Power Supplies

Product Specifications

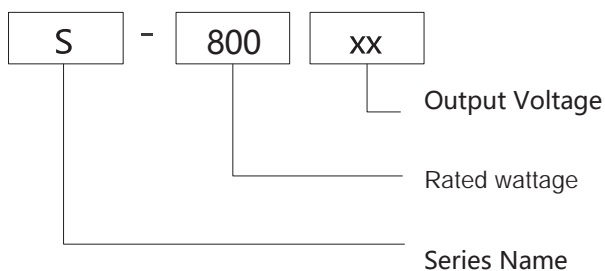
S-800

- Product Category: 800W Single Output Power Supply
- Version No.: ZTAO3.0
- Release date: 1st May 2025

Product Overview

S-800-XX series products for a 800W chassis-type industrial power supply, the output voltage including 12V/24V /36V/48V, etc., can be adapted to different load application requirements to meet the needs of most industrial applications, fan cooling, and a full range of protection, to ensure that this series of products of high reliability and high stability.

Model encoding

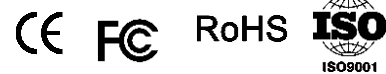


product characteristics

- The AC range input is switched via the switch
- Type of protection: short circuit/overload/overvoltage
- fan cooling
- LED indicator for power on
- 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)



01-01

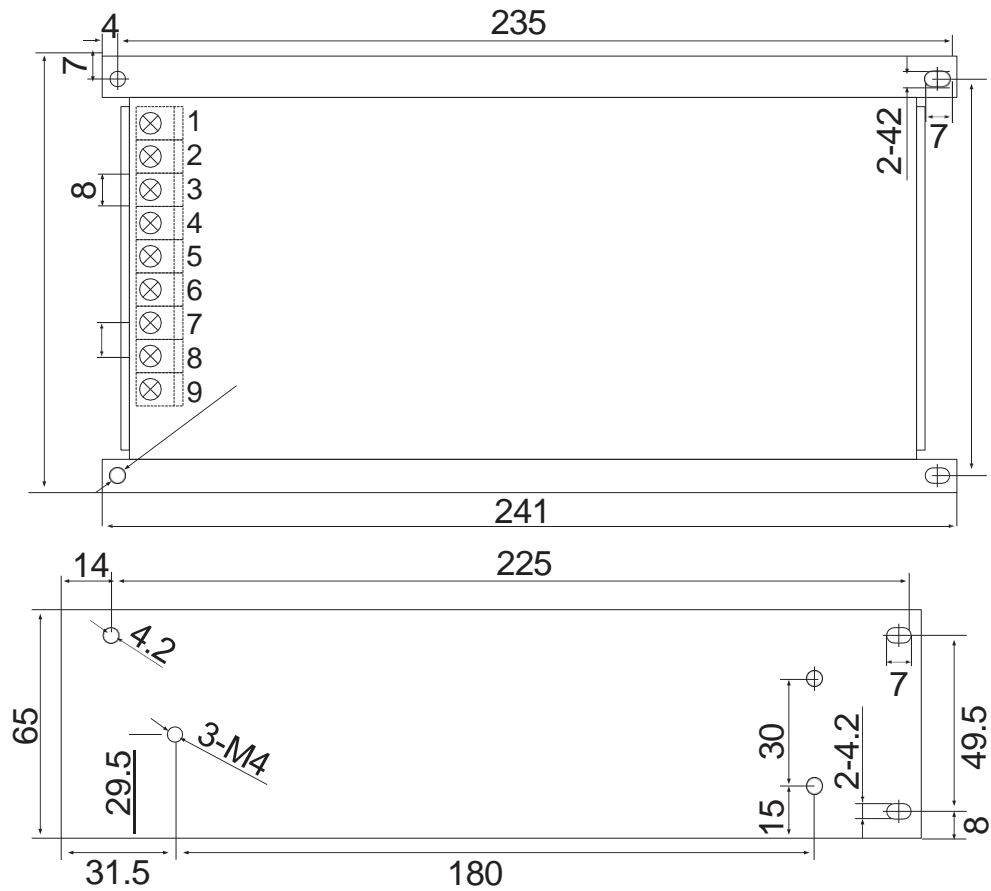
electrical specifications

Model		S-800-12	S-800-15	S-800-24	S-800-36	S-800-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	66.6A	53A	33.3A	22.3A	16.7A
	Current range	0~66.6A	0~53A	0~33.3A	0~22.3A	0~16.7A
	Rated power	799.2W	795W	799.2W	802.8W	801.6W
	Ripple & Noise (Max)	240mVp-p	240mVp-p	300mVp-p	320mVp-p	320mVp-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	1200ms,60ms/230VAC 1200ms,60ms/115VAC (at full load)				
	Holding time	16mS/230VAC 12mS/115VAC (at full load)				
Input	Input Voltage	100~132 VAC/190~264 VAC selectable via switch 266~370VDC(switc on 230VAC)				
	Input frequency	50~60HZ				
	Efficiency	84%	84%	86.5%	87%	88%
	Input current	8.5A/115VAC 4.2A/230VAC				
	Leakage current	< 2mA/240VAC				
Protection	overload protection	105~135% of rated power Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed				
	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				
	Over temperature	Turn off the output voltage, reboot to restore				
Function	Fan On/Off Control (Typ.)	TH3 ≥ 50 °C fan on, ≤ 40 °C fan off				
Environment	Operating temperature	-20°C ~+65°C				
	Operating humidity	20~90%RH No condensation				
	Storage temperature/humidity	-40~+80°C 10~95%RH, no condensation				
Security	Vibration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each				
	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC				
	Insulation	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH				

others	Product dimensions	241*124*65mm (L*W*H)
	Packaging	1.4kg/pcs
Remarks		<ol style="list-style-type: none"> 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 cable, 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

Pin No	Assignment
1	AC/N(DC+)
2	AC/L(DC-)
3	FG Ⓢ
4,5,6	DC OUTPUT -V
7,8,9	DC OUTPUT +V

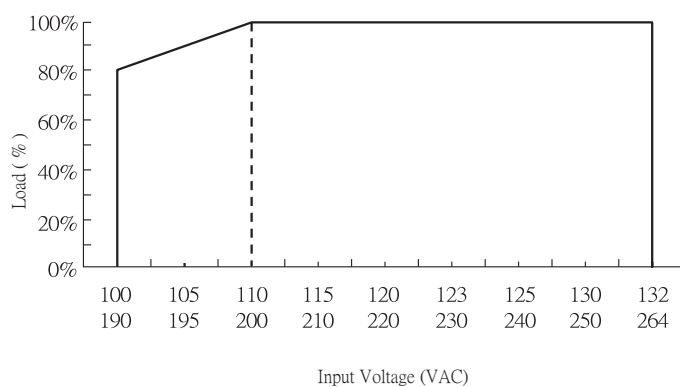
Pinout	Function	
L	AC LINE	Screw:M4*9.5 Torque:22Kgf.cn(2..... 2N.m)
N	AC NETURAL	
Ⓢ	EARTH	
-V	DC output -	Screw:M4*9.5 Torque:22Kgf.cn(2..... 2N.m)
-V	DC output -	
-V	DC output -	
+V	DC output +	
+V	DC output +	
+V	DC output +	

8-M4 Customer system
mounting holes
mounting screws: M4
Installation torque: 8Kgf.cn
(0.8N.m) screws into the
housing is not more than
3mm

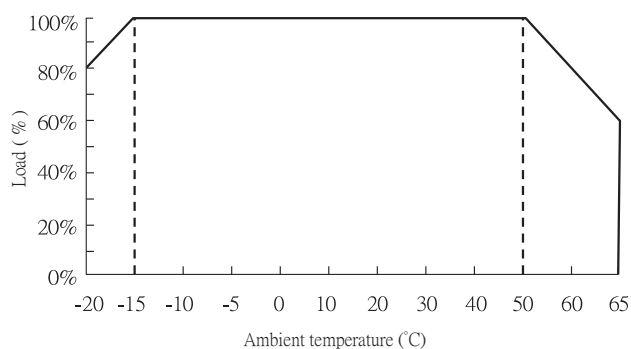
Remarks:
Unit: mm [inch]; unlabelled tolerance ± 0.5 [± 0.020].

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.