## **Product Specifications**

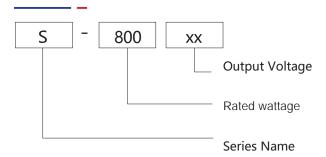
# **S-800**

- 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 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

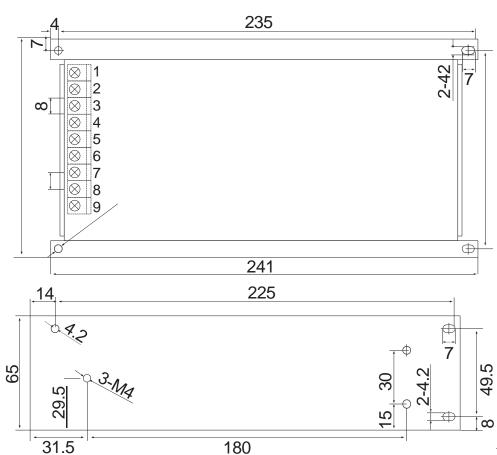
DC output voltage   12V   15V   24V   36V   48V   48									
voltage   Rated current   66.6A   53A   33.3A   22.3A   16.7A		Model	S-800-12	S-800-15	S-800-24	S-800-36	S-800-48		
Rated current		DC output	12V	15V	24V	36V	48V		
Current range   Rated power   799.2W   795W   799.2W   802.8W   801.6W		voltage							
Name		Rated current	66.6A	53A	33.3A	22.3A	16.7A		
Output Ut Ut         Ripple & Noise (Max)         240mVp-p         240mVp-p         300mVp-p         320mVp-p         432~52.8V           Leadigustment range adjustment range adjustment range adjustment rate body and significant range adjustment range adjustment rate body and significant range adjustment rate body and signif		Current range	0~66.6A	0~53A	0~33.3A	0~22.3A	0~16.7A		
Name		Rated power	799.2W	795W	799.2W	802.8W	801.6W		
Adjustment range	•	• •	240mVp-p	240mVp-p	300mVp-p	320mVp-p	320mVp-p		
Linear adjustment rate   ±0.5%		_	10.2~13.8V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V		
adjustment rate Load Adjustment Ratio  Start-up & rise time Holding time Holding time Input Voltage Input frequency Input frequency Input terrequency Input current Leakage current Vection Overvoltage protection Over Turn off the output voltage, reboot to restore temperature Finding Fin		voltage accuracy	±1%	±1%	±1%	±1%	±1%		
Ratio  start-up & rise time  Holding time  Input Voltage Input Voltage Input Feducary Input Greiner  Residuation  Input Voltage Input Voltage Input Voltage Input Greiner			±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
time Holding time Holding time 16mS/230VAC 12mS/115VAC (at full load) Input Voltage Input Voltage Input frequency Efficiency 84% 84% 84% 86.5% 87% 88% Input current Leakage current overload protection Protection Over Jas Protection Over Turn off the output voltage, reboot to restore Temperature Functi Operating Enviro Operating themperature Turn of Stroage temperature Turn of Stroage temperature  Poperating Voltage Storage temperature Turn of Stroage Tur		-	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
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   8.5 A/115VAC   4.2A/230VAC   Leakage current   000			1200ms,60ms/230VAC 1200ms,60ms/115VAC (at full load)						
Input frequency   Efficiency   84%   84%   86.5%   87%   88%   88%   88%   85.4/115VAC   4.2A/230VAC		Holding time	16mS/230VAC 12mS/115VAC (at full load)						
Efficiency Input current Input current Leakage current  Very long to current Leakage current  Efficiency Input current Leakage current  Very long to conditions are removed  Overvoltage protection Over temperature  Functi on Operating the midity  Storage temperature  Vibration-  Vibration-  Tersistant pressure resistant pressure  Find to conditions  Efficiency  84% 84% 84% 86.5% 87% 88%  87% 88% 88% 88% 86.5% 87% 88% 88% 86.5% 87% 88% 88% 86.5% 87% 88% 88% 88% 86.5% 87% 88% 88% 88% 86.5% 87% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 86.5% 87% 88% 88% 86.5% 87% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 86.5% 87% 88% 88% 88% 88% 88% 88% 88% 88% 88		Input Voltage	100~132 VAC/190~264 VAC selectable via switch 266~370VDC(switc on 230VAC)						
Input current Leakage current Vertication  Protection Overvoltage protection Overvoltage protection Over temperature  Functi on Operating Environ nmen t Mumidity Storage temperature/hum idity  Securi ty Vibration- Tesistant pressure resistant pressure resistant pressure  Protection As 40 **C fan off output voltage, x, y, z 60 min each Input current 8.5.A/115VAC 4.2A/230VAC  2mA/240VAC  2mA/240VAC  2mA/240VAC  105~135% of rated power  2nover or protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  13.8~16.2V 18.7~21.7V 28.8~33.6V 41.4~48.6V 55.2~64.8V  15.8~33.6V 41.4~48.6V 5	lnnut	Input frequency	50~60HZ						
Leakage current   Cama/240VAC   105~135% of rated power   105~135% of rated power   Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal   conditions are removed   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   Turn off the output voltage, reboot to restore   temperature   Fan On/Off Control on (Typ.)   Operating temperature   20~90%RH No condensation   20~90%RH No condensation   20~90%RH No condensation   40~40~480°C 10~95%RH, no condensation   10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each   Input to Output :1.5KVAC; Input to Ground :5.5KVAC; Output to Ground :5.500VAC   Input to Ground :5.5KVAC; Output to Grou	iliput	Efficiency	84%	84%	86.5%	87%	88%		
overload protection ecti on  Overvoltage protection Over temperature  Ennoiro nmen t  Operating humidity  Storage temperature/hum idity  Security  Vibration-resistant pressure resistant pressure resista		Input current	8.5 A/115VAC 4.2A/230VAC						
Protection protection  Protection  Protection  Protection  Protection  Overvoltage protection  Over temperature  Functi on  Operating temperature  Toperating humidity  Storage temperature/hum idity  Securi ty  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  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  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  14.3 ≥ 50 °C fan on, ≤ 40 °C fan off  15.5 <		Leakage current	< 2mA/240VAC						
Protection conditions are removed  Overvoltage protection  Over Turn off the output voltage, reboot to restore temperature  Function  Operating temperature  Toperating humidity  Storage temperature/humidity  Vibration-resistant ty  Protection mode: +VO drops to the undervoltage point, and automatically recovers when abnormal conditions are removed  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  Turn off the output voltage, reboot to restore  Turn off the output voltage, reboot to restore  TH3 ≥ 50 °C fan on, ≤ 40 °C fan off  (Typ.)  Operating temperature  Operating temperature  10~90%RH No condensation  10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each  Input to Output:1.5KVAC; Input to Ground:1.5KVAC; Output to Ground:500VAC		overload	105~135% of rated power						
Overvoltage protection  Over Turn off the output voltage, restart to recover  Functi Fan On/Off Control (Typ.)  Operating temperature  Enviro nmen t Vibration- resistant pressure resistance  Over temperature  Protect mode: shut down the output voltage, restart to recover  Turn off the output voltage, reboot to restore  TH3 ≥ 50 °C fan on, ≤ 40 °C fan off  Operating 20~90 °RH No condensation  10~50 °C fan on, ≤ 40 °C fan off  -20° C ~+65° C  10~90 °RH No condensation  10~50 °C fan on, ≤ 40 °C fan off  10~50 °C f									
Protect mode: shut down the output voltage, restart to recover  Over temperature  Functi Fan On/Off Control on (Typ.)  Operating temperature  This ≥ 50 °C fan on, ≤ 40 °C fan off  Operating temperature  Nemen t	on	Overveltage	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V		
temperature  Functi on (Typ.)  Operating temperature  Operating humidity  Storage temperature/hum idity  Securi ty  Vibration- resistant pressure resistance  TH3 ≥ 50 °C fan on, ≤ 40 °C fan off  CTan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan on, ≤ 40 °C fan off TH3 ≥ 50 °C fan off T		protection	· · ·						
on (Typ.)  Operating temperature  Operating humidity  Storage temperature/hum idity  Securi ty  Vibration-resistant pressure resistance  Operating humidity  -40~+80°C 10~95%RH, no condensation  -40~+80°C 10~95%RH, no condensation  10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC			Turn off the output voltage, reboot to restore						
Enviro temperature  nmen t Operating humidity Storage temperature/hum idity  Securi ty Pressure resistant pressure  Temperature temperature temperature temperature/hum idity  10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC			TH3 ≥ 50 °C fan on, ≤ 40 °C fan off						
t humidity  Storage temperature/hum idity  Vibration-resistant pressure resistance  Securi ty  Storage temperature/hum idity  10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC	nmen t		-20°C ~+65°C						
temperature/hum idity  Securi ty  Vibration- resistant pressure resistance  Temperature/hum idity  10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC			20~90%RH No condensation						
ty resistant pressure resistance Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC		temperature/hum	-40~+80°C 10~95%RH, no condensation						
ty resistant Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC pressure resistance		Vibration-	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each						
		pressure	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC						

		241*124*65mm ( L*W*H )	
oth	ers Product		
	dimensions		
	Packaging	1.4kg/pcs	
		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 $0.1\mu$ and $47\mu$ 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	ı
	Remarks	6. Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time.	ı
		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
	<u> </u>

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

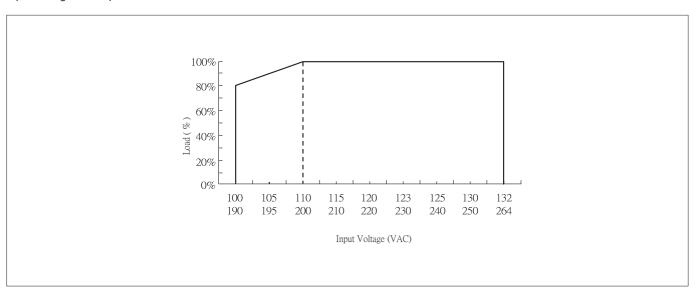
8-M4 Customer system mounting holes mounting screws: M4 Installation torque: 8Kgf.cn (0.8N.m) screws into the housing is not more than 3mm Remarks:

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

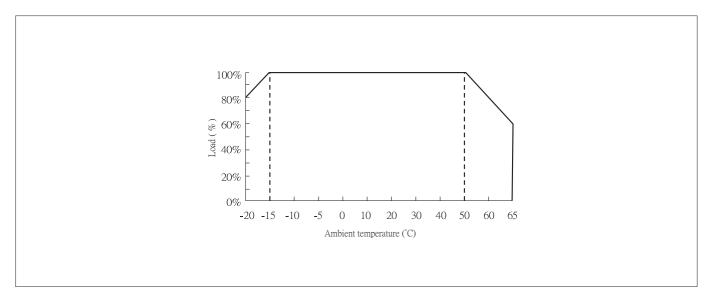


## Characteristic Curve

## 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.