Zhitao Group
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Industrial Power Supplies

Product Specifications

S-2000

- Product Category:2000w Single Output Power Supply
- Version number:ztao3.0
- Release date: 1st May 2025

Product Overview

S-2000-XX SERIES PRODUCTS FOR A 2000W 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, AS WELL AS A FULL RANGE OF PROTECTION, TO ENSURE THAT THIS SERIES OF PRODUCTS OF HIGH RELIABILITY AND HIGH STABILITY.

Model encoding

S _ 2000 xx

- xx — Output voltage
- 2000 — Rated wattage
- S — Series name

product characteristics

- AC input range 190~264vac
- Type of protection: short circuit/overload/overvoltage
- fan cooling led indicator for Power on
- 100% full load burn-in test
- 3-year warranty

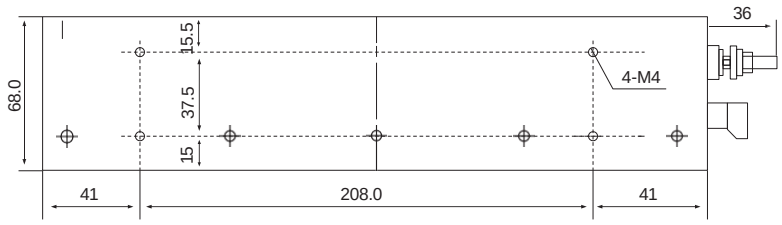
areas of application

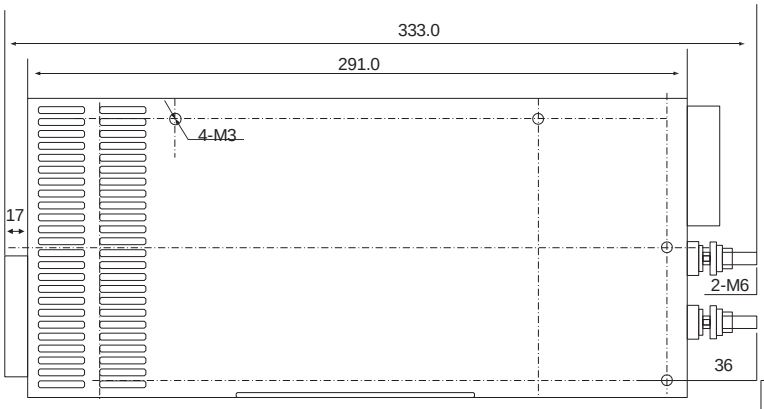
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

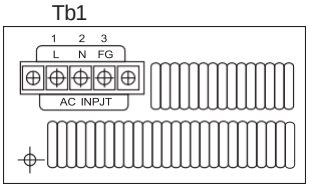
electrical specifications

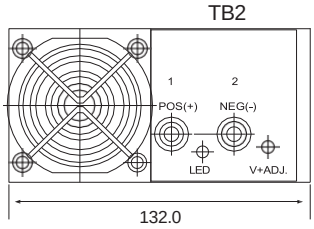
Model		S-2000-12	S-2000-15	S-2000-24	S-2000-36	S-2000-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	141A	112A	83.3A	55.5A	41.6A
	Current range	0~141A	0~112A	0~83.3A	0~55.5A	0~41.6A
	Rated power	1692W	1680W	1999.2W	1998W	1996.8W
	Ripple & Noise (Max)	200mVp-p	200mVp-p	240mVp-p	320mVp-p	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	±1%	±1%	±1%	±1%	±1%
	Load Adjustment Ratio	±1%	±1%	±1%	±1%	±1%
	start-up & rise time	1800ms,65ms/230VAC (at full load)				
	Holding time	10mS/230VAC (at full load)				
Input	Input Voltage	190~264VAC 266~370VDC				
	Input frequency	50~60HZ				
	Efficiency	84%	84%	88%	89%	89%
	Input current	12.7A/230VAC				
	Leakage current	＜ 2mA/240VAC				
Protection	overload protection	100~105% of rated power				
		Protection mode: +vo down to undervoltage point, restart to recover after 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.)	The fan's spinning straight up				
Environment	Operating temperature	-20℃ ~+60℃				
	Operating humidity	20~90%rh No condensation				
	Storage temperature/humidity	-40~+80℃ 10~95%rh, no condensation				
Security	Resistant to vibration pressure resistance	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				
Others	Insulation impedance Product dimensions	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25℃ /70%RH				
		291*132*68mm（L*W*H） 333*132*68mm(including terminal block)				
	Packaging	3.5kg/pcs				
Remarks		1. All parameters are measured at 230vac input, rated load and 25℃ when not specified. 2. Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors at the end of a 12-inch twisted pa ir 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℃ / 1000 metres				

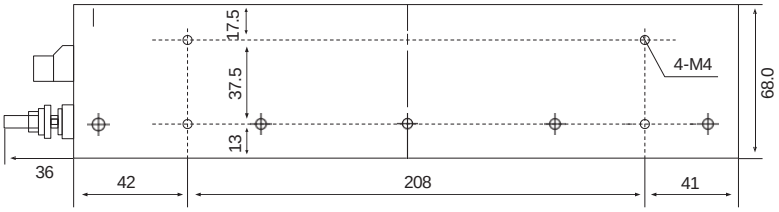
Outline and Mounting Dimensions (mm)











TB1 Terminal Pin No.Assignment

pin No	Assignment
1	AC/N(DC+)
2	AC/L(DC-)
3	FG ⏚

TB2 Terminal Pin No.Assignment

pin No	Assignment
1	DC OUTPUT +V
2	DC OUTPUT -V

Pinout	Function	
L	AC LINE	Screw:m4*10 Torque:22Kgf.cn(2..... 2N.m)
N	AC NETURAL	
⏚	EARTH	
NEG(-)	DC output -	Screw:m6*12 Torque:22Kgf.cn(2..... 2N.m)
POS(+)	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

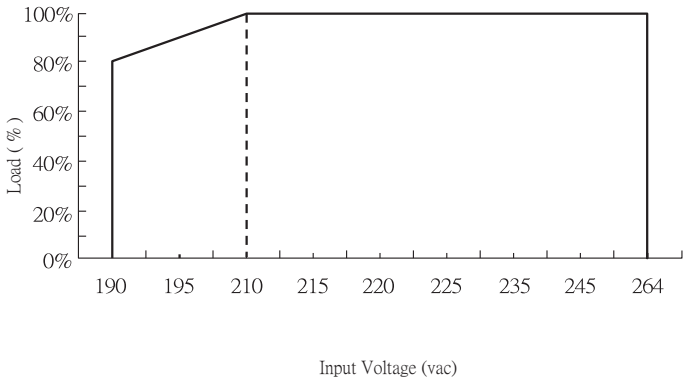
than 3mm

Remarks:

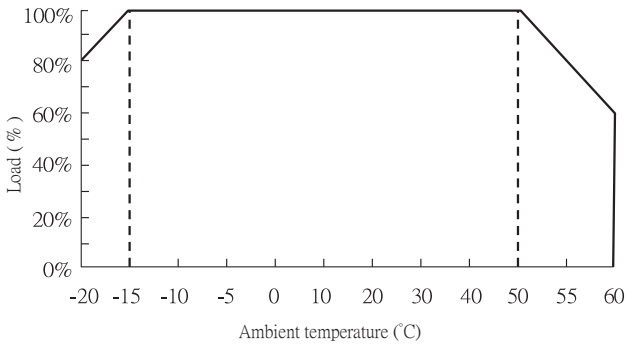
Unit: mm [inch]; unlabelled tolerance ±0.5 [±0.020]

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.