



# Zhitao Group

ZHITAO GROUP

Industrial Power Supplies

## Product Specifications

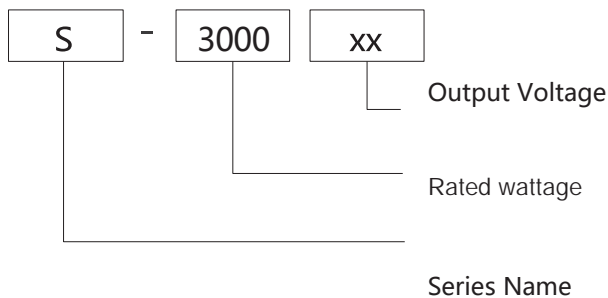
# S-3000

- Product Category: 3000W Single Output Power Supply
- Version number: ztao3.0
- Release date: 1st May 2025

### product overview

S-3000-XX SERIES PRODUCTS FOR A 3000W 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



### 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

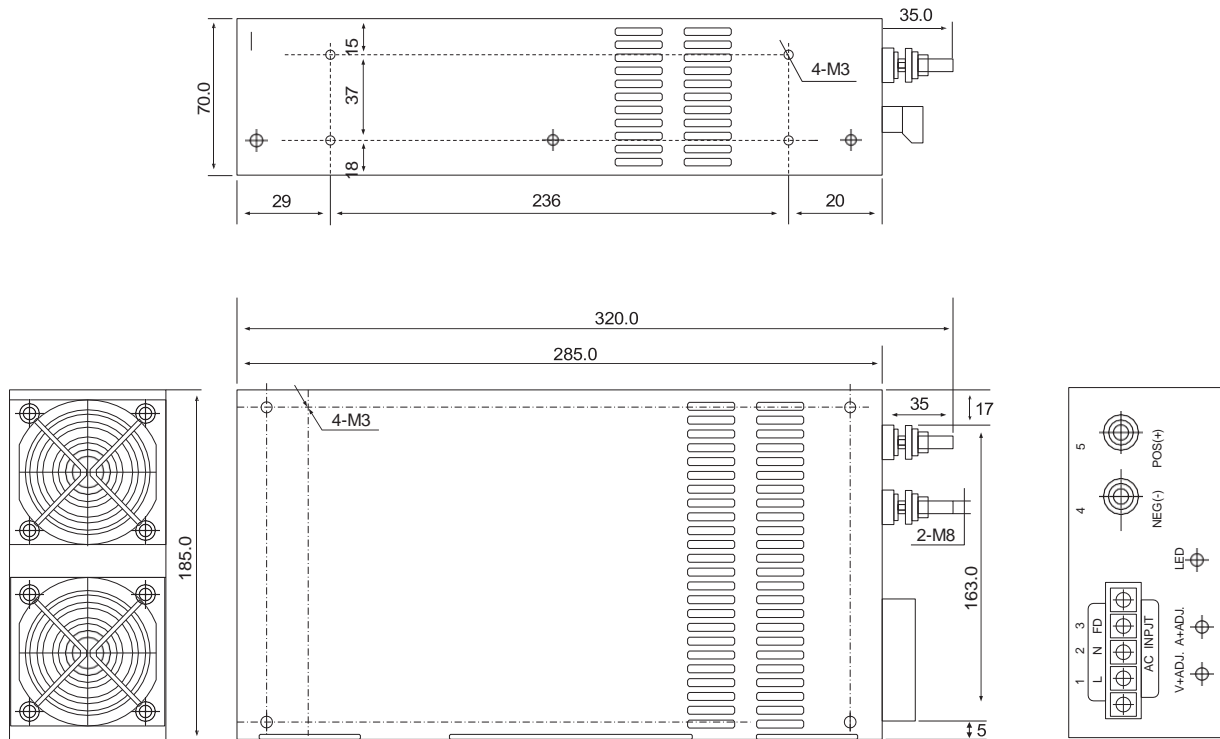
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

## Electrical Specifications

Model		S-3000-12	S-3000-15	S-3000-24	S-3000-36	S-3000-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	220A	176A	125A	83.3A	62.5A
	Current range	0~220A	0~176A	0~125A	0~83.3A	0~62.5A
	Rated power	2640W	2640W	3000W	2998.8W	3000W
	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	2000ms,75ms/230VAC (at full load)				
	Holding time	12mS/230VAC ( at full load )				
Input	Input Voltage	190~264VAC 266~370VDC				
	Input frequency	50~60HZ				
	Efficiency	84%	84%	89%	90%	90%
	Input current	23.6A/230VAC				
Leakage current	< 2mA/240VAC					
Protection	overload protection	100~125% of rated power Protection mode: constant current limiting mode, 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
	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 ~ +60°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				
Others	Insulation	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH				
	impedance	285*185*70mm ( L*W*H )		320*185*70mm(including terminal block)		

### Outline and Mounting Dimensions (mm)



Terminal Pin No. Assignment

pin No	Assignment
1	AC/N(DC+)
2	AC/L(DC-)
3	FG ⊕
4	DC OUTPUT -V
5	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:m8*12 Torque:22Kgf.cn( 2..... 2N.m)
POS(+)	DC output +	

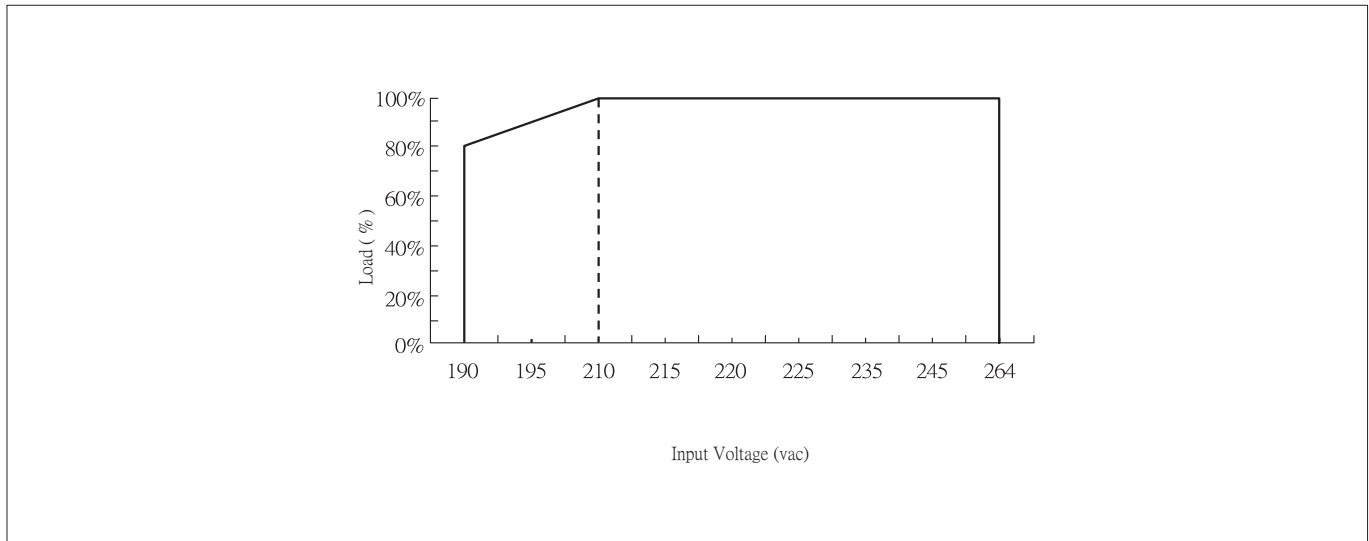
8-m4 Customer system  
mounting holes  
mounting screws:m4  
Installation torque: 8Kgf.cn  
(0.8N.m) screws into the  
housing is not more than  
3mm

Remarks:

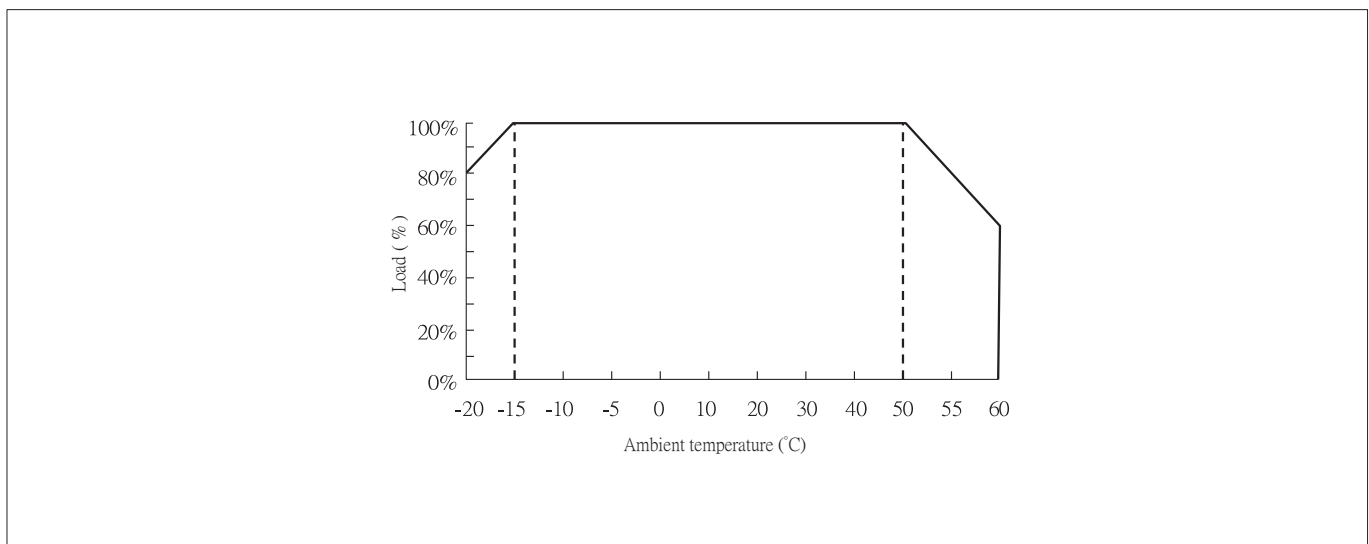
Unit: mm [inch]; unlabelled tolerance  $\pm 0.5$  [ $\pm 0.020$ ].

## 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.