Zhitao Group
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Industrial Power Supplies

Product Specifications

ZTG-3000

- Product Category:3000W Single Output switching Power Supply
- Version No.:ZTAO3.0
- Release date: 1st May 2025

product overview

ZTG-3000-XX series products is a 3000W chassis type industrial power supply, the output voltage includes 12V/24V/36V/48V/72V/110V/220V, etc., can be adapted to different load application requirements to meet the needs of most industrial applications, built-in multi-functions such as output voltage, output current, remote on/off control, auxiliary power supply and other functions to provide a variety of design flexibility, fan heat dissipation, as well as a full range of protections, to ensure that this series of products of high reliability and high stability.

Model encoding

ZTG - 3000 xx

- xx: Output voltage
- 3000: Rated power
- ZTG: Series name

product characteristics

- AC input range 195~264VAC
- Type of protection: short circuit/overload/over temperature
- remote on/off control
- fan cooling
- Power on LED indicator
- 100% full load burn-in test
- 3-year warranty

CE FC RoHS ISO ISO9001

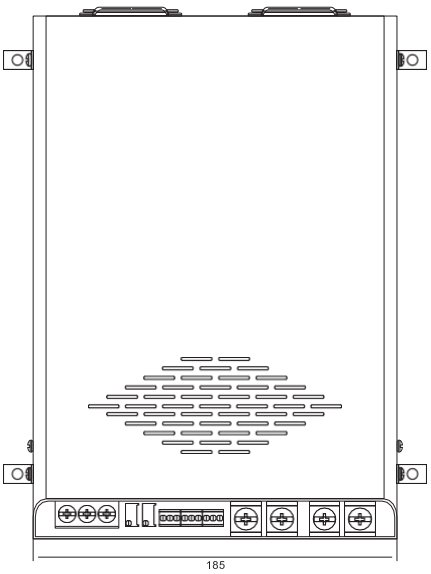
areas of application

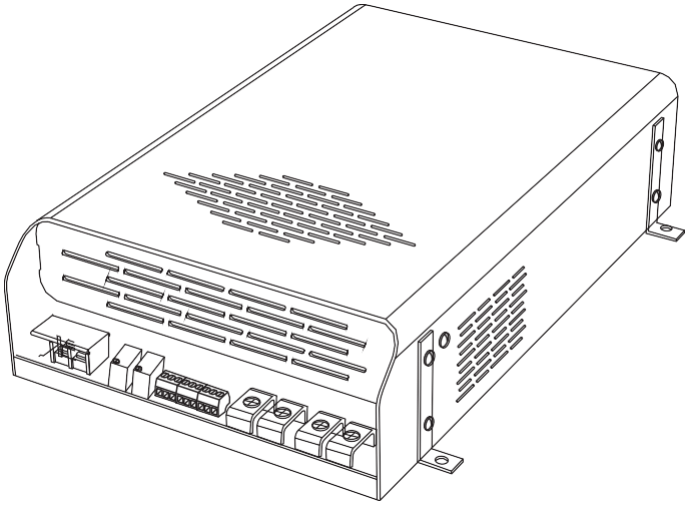
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, UV curing equipment, semiconductor equipment, etc. (except information technology equipment)

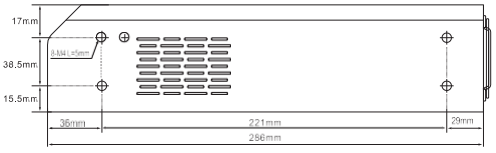
Electrical Specifications

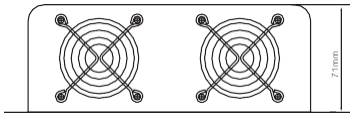
Model		ZTG-3000-12	ZTG-3000-24	ZTG-3000-36	ZTG-3000-48	ZTG-3000-72	ZTG-3000-110	ZTG-3000-220
Output	DC output voltage	12V	24V	36V	48V	72V	110V	220V
	Rated current	250A	125A	83.3A	62.5A	41.7A	27.3A	13.7A
	Current range	0~250A	0~125A	0~83.3A	0~62.5A	0~41.7A	0~27.3A	0~13.7A
	Rated power	3000W	3000W	2998.8W	3000W	3002.4W	3003W	3014W
	Ripple & Noise (Max)	200mVp-p	200mVp-p	260mVp-p	300mVp-p	500mVp-p	850mVp-p	1000mVp-p
	Output Voltage Adjustment	0~13.2V	0~26.4V	0~39.6V	0~52.8V	0~79.2V	0~121V	0~242V
	voltage accuracy	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Linear adjustment rate	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Load Adjustment Ratio	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	start-up & rise time	2000ms,200ms/230VAC (at full load)						
Input	Input Voltage	180~264VAC 245~370VDC						
	Input frequency	45~65HZ						
	Efficiency	85%	86%	87%	89%	90%	90%	91%
	Input current	33A/230VAC						
	Leakage current	＜ 3.0mA/240VAC						
Protection	short-circuit protected	Protection mode: constant current limitation, voltage lower than 10% of rated voltage, shutdown and output lockout after 1 second, restart to recover after abnormal conditions are removed						
	Over temperature	Output voltage is switched off and restored after temperature drop or reboot						
Function	constant current optimum range	6~12V	12~24V	18~36V	24~48V	36~72V	55~110V	110~220V
	External potentiometer	External potentiometer control (voltage, current)						
	analogue signal control	0~5V/0~10V,0~5A/0~10A control (voltage, current)						
	Auxiliary power supply	12V 0.5A						
	Remote on/off control	Default power on, high level power off (5~12V)						
	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°C 10~95%RH, no condensation						
Security	Vibration-resistant 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						
	Insulation impedance Product dimensions	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25℃ /70%RH						
		285*185*70mm（L*W*H）						
Others	Packaging	3.3kg/pcs						
Remarks		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						

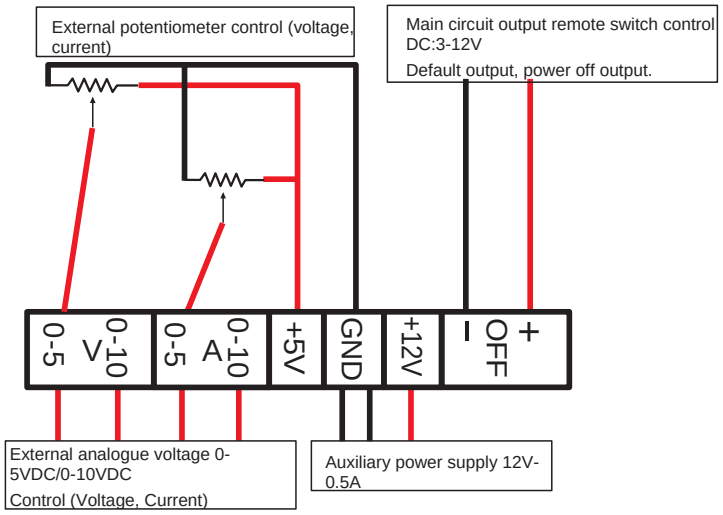
Outline and Mounting Dimensions (mm)









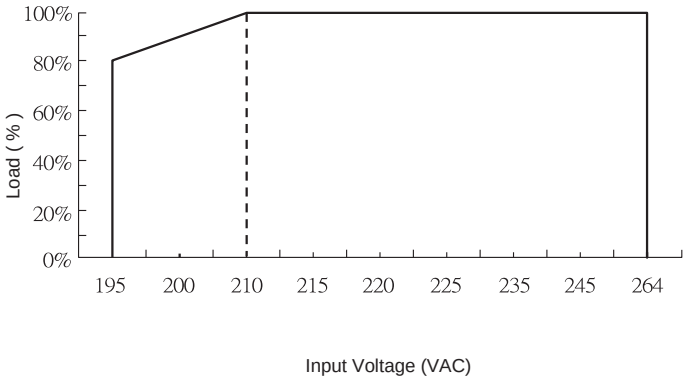


Pinout	Function	
L	AC LINE	Screw:M4*9.5 Torque:22Kgf.cn(2.2N.m)
N	AC NETURAL	
⏚	EARTH	
-Vo	DC output -	Screw:M6*14 Torque:30Kgf.cn(3.0N.m)
-Vo	DC output -	
+Vo	DC output +	
+Vo	DC output +	

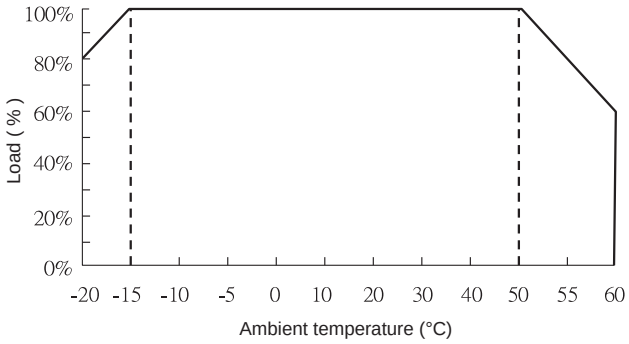
8-M4 Customer system
mounting holes
mounting screws: M4
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm
Remarks:
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

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.