



Zhitao Group
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Industrial Power Supplies

Product Specifications

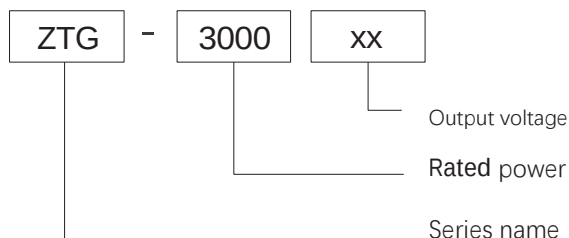
ZTG-3000

- 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 reliability and stability.

Model encoding



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



RoHS



areas of application

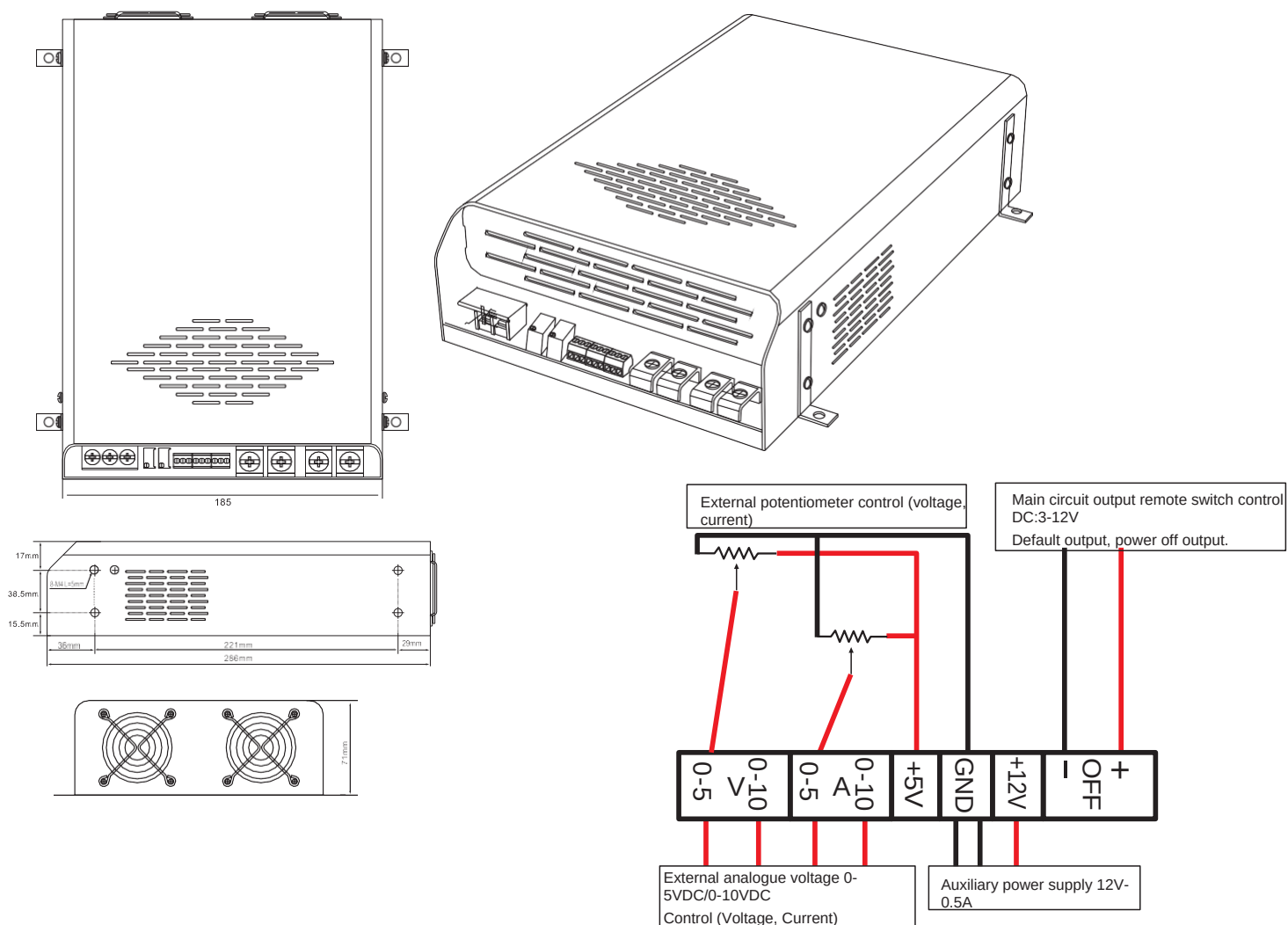
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, UV curing equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

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°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						
	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH						
Others	Product dimensions	285*185*70mm (L*W*H)						
	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)

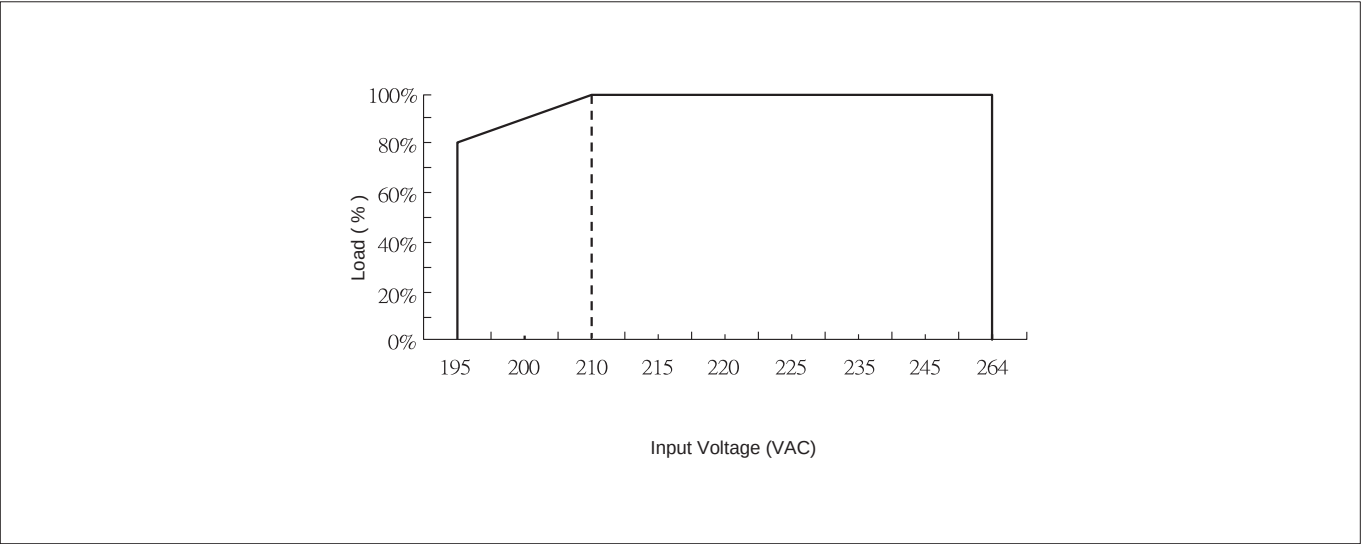


Pinout	Function	
L	AC LINE	Screw:M4*9.5 Torque:22Kgf.cn(2.2N.m)
N	AC NETURAL	
⊕	EARTH	
-Vo	DC output -	Screw:M6*14 Torque:30Kgf.cn(3.0N.m)
-Vo	DC output -	
+Vo	DC output +	
+Vo	DC output +	

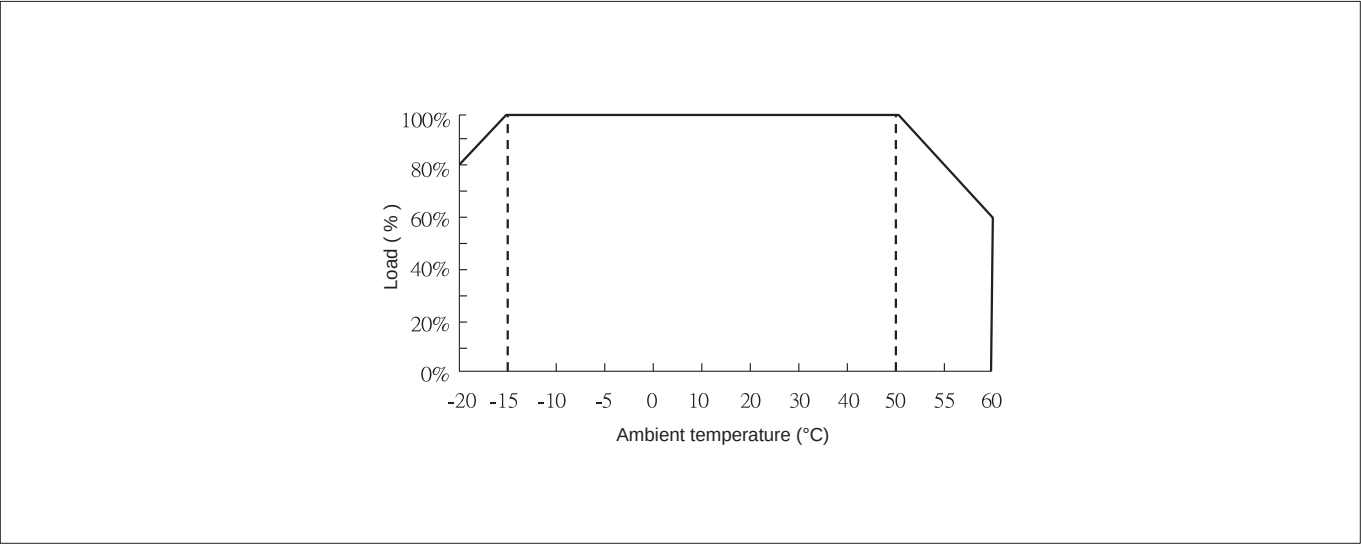
8-M4 Customer system
mounting holes
mounting screws: M4
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm
Remarks:
Unit: mm [inch]; unlabelled tolerances are ± 0.5
[± 0.020].

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.