



Zhitao Group

ZHITAO GROUP

Industrial Power Supplies

Product Specifications

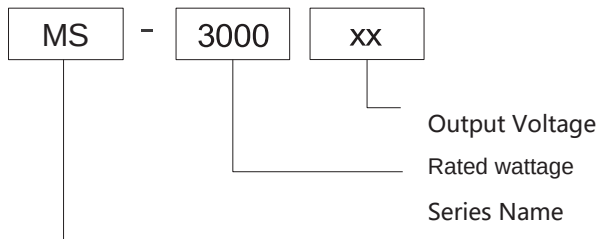
MS-3000

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

product overview

MS-3000-XX series of products for a 3000W chassis-type industrial power supply, the output voltage including 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 reliability and 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



RoHS



areas of application

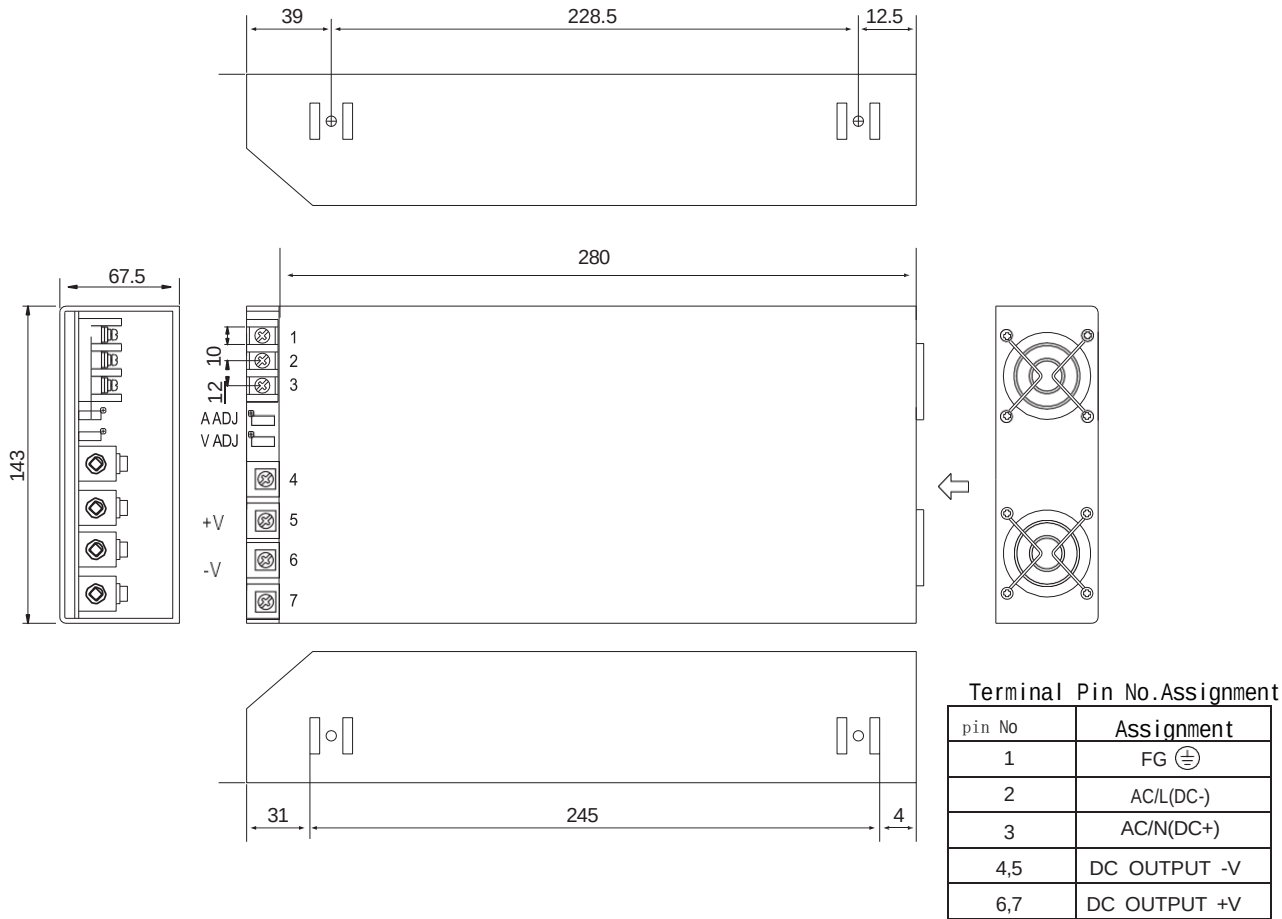
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

electrical specifications

Model		MS-3000-24	MS-3000-36	MS-3000-48
Output	DC output voltage	24V	36V	48V
	Rated current	125A	83.3A	62.5A
	Current range	0~125A	0~83.3A	0~62.5A
	Rated power	3000W	2998.8W	3000W
	Ripple & Noise (Max)	320mVp-p	360mVp-p	360mVp-p
	voltage adjustment range	0~26.4V	0~39.6V	0~52.8V
	voltage accuracy	±1%	±1%	±1%
	Linear adjustment rate	±1%	±1%	±1%
	Load Adjustment Ratio	±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	88%	90%	90%
	Input current	24.5A/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	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.)	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 impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH		
	Product dimensions	280*140*70mm (L*W*H)		
	Packaging	3.0kg/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)

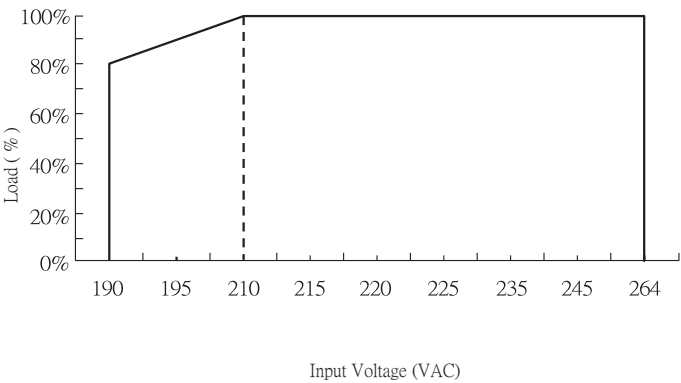


Pinout	Function	
L	AC LINE	Screw:M4*10.5 Torque:22Kgf.cn(2.2N.m)
N	AC NETURAL	
⊕	EARTH	
-V	DC output -	Screw:M5*12.5 Torque:22Kgf.cn(2.2N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

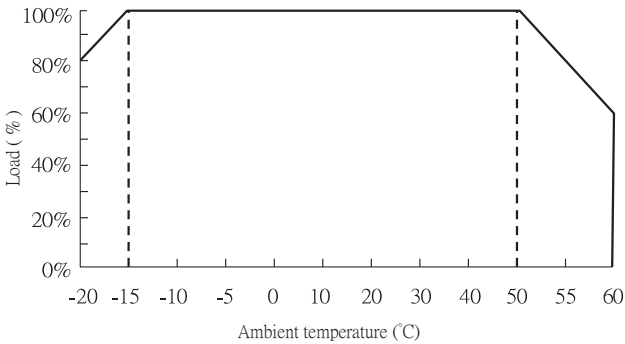
4-M3 mounting screws for customer system
mounting holes: M3
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm
Remarks:
Unit: mm [inch]; unlabelled tolerance ± 0.5 [± 0.020].

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.