Zhitao Group
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Industrial Power Supplies

Product Specifications

MS-1500

- Product Category:1500W Single Output Power Supply
- Version No.:ZTAO3.0
- Release date: 1st May 2025

product overview

MS-1500-XX series products for a 1500W chassis-type industrial power supply, the output voltage including 24V36V / 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 high reliability and high stability.

Model encoding

MS - 1500 xx

- xx: Output voltage
- 1500: Rated wattage
- MS: series name

product characteristics

- AC input range 190~264VAC
- Type of protection:
- short circuit/overload/overvoltage
- fan cooling , LED indicator forpower on
- 100% full load burn-in test
- 3-year warranty

CE FC RoHS ISO ISO9001

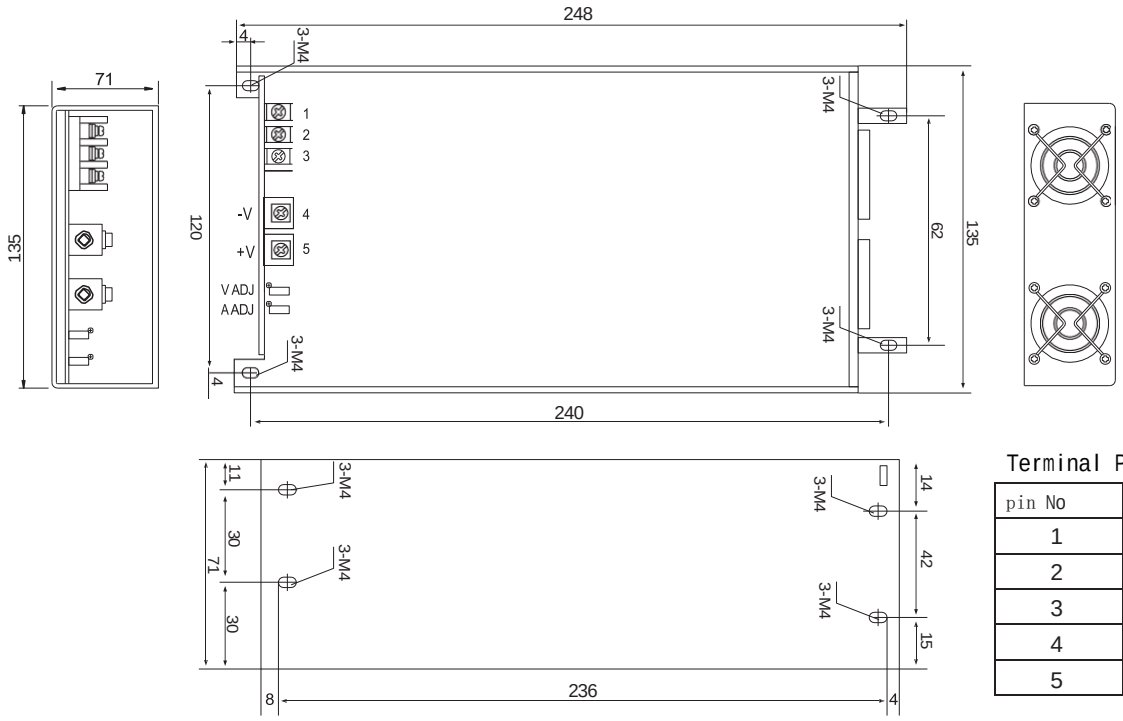
areas of application

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

Electrical Specifications

Model		MS-1500-24	MS-1500-36	MS-1500-48
Output	DC output voltage	24V	36V	48V
	Rated current	62.5A	41.7A	31.3A
	Current range	0~62.5A	0~41.7A	0~31.3A
	Rated power	1500W	1501.2W	1502.4W
	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	1300ms,60ms/230VAC (at full load)		
	Holding time	10mS/230VAC (at full load)		
Input	Input Voltage	190~264VAC 266~370VDC		
	Input frequency	50~60HZ		
	Efficiency	86.5%	88%	88%
	Input current	12.7A/230VAC		
	Leakage current	＜ 2mA/240VAC		
Protection	overload protection	105~135% 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.)	The fan's spinning straight up		
environmental properties	Operating temperature	-20℃ ~+60℃		
	Operating humidity	20~90%RH No condensation		
	Storage temperature/humidity	-40~+80℃ 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℃ /70%RH		
	Product dimensions	248*135*71mm（L*W*H）		
	Packaging	1.6kg/pcs		
Remarks		1. All parameters are measured at 230VAC input, rated load and 25℃ 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℃ / 1000 metres		

Outline and Mounting Dimensions (mm)



Terminal Pin No.Assignment

pin No	Assignment
1	AC/L(DC-)
2	AC/N(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	
-V	DC output -	Screw:M5*12.5 Torque:22Kgf.cn(2..... 2N.m)
+V	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

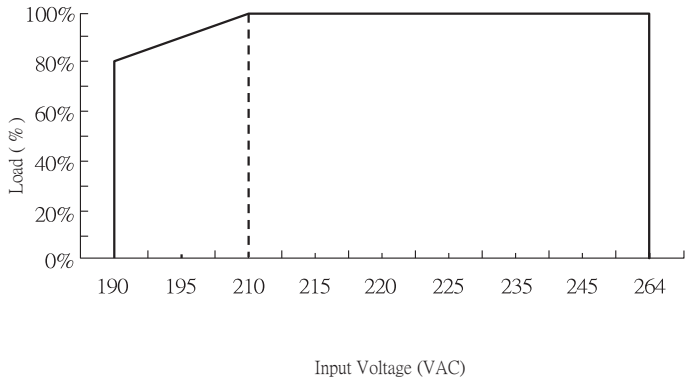
than 3mm

Remarks:

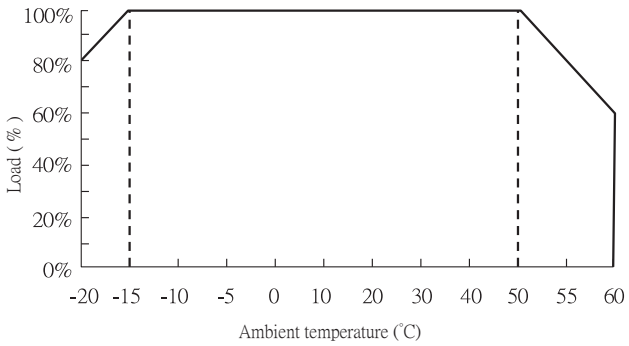
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

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.