



Zhitao Group
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Industrial Power Supplies

Product Specifications

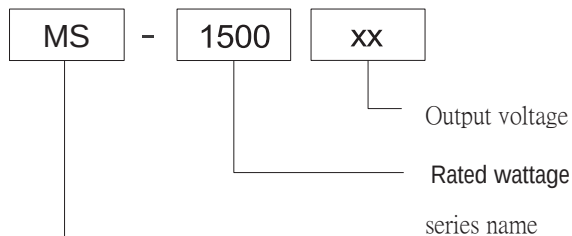
MS-1500

- 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 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



areas of application

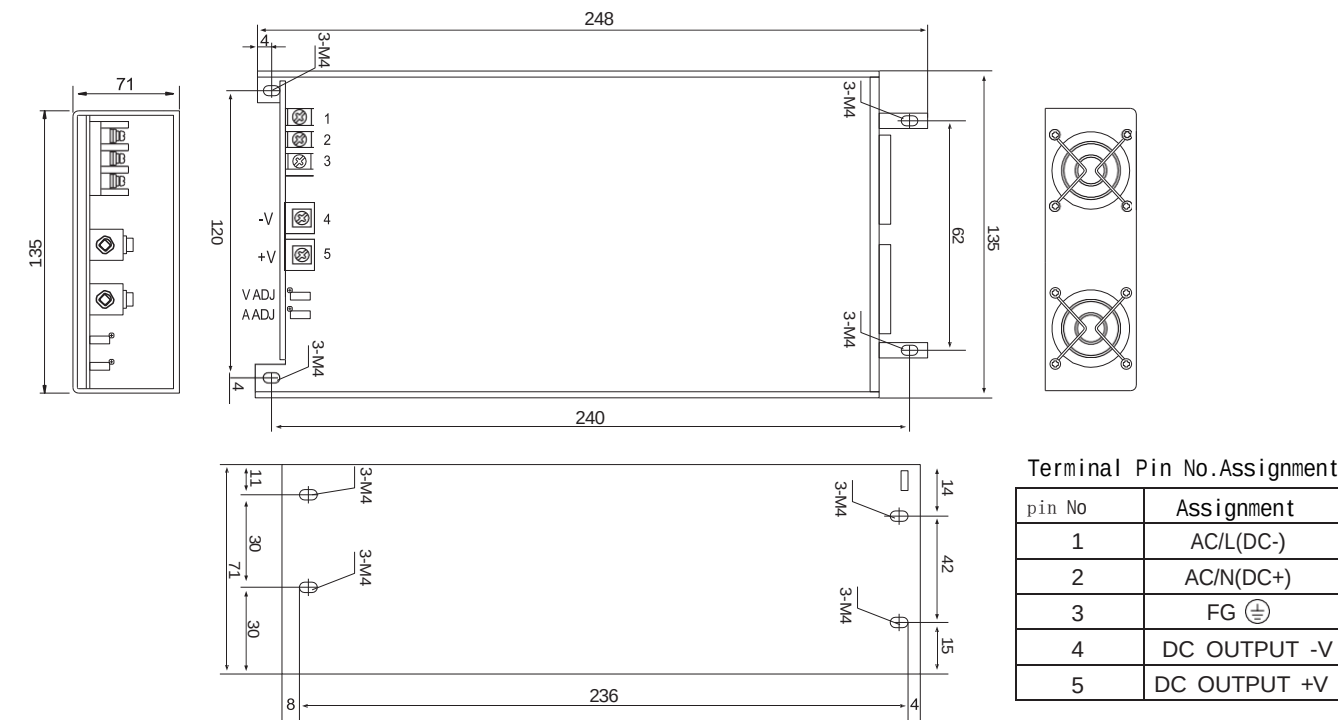
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

Electrical Specifications

Model		MS-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		
Protect ion	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	
enviro nment al proper ties	Operating temperature	-20℃ ~+60℃		
	Operating humidity	20~90%RH No condensation		
	Storage temperature/humidity	-40~+80℃ 10~95%RH, no condensation		
Securit y	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		
	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 0.1 μ and 47 μ 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)

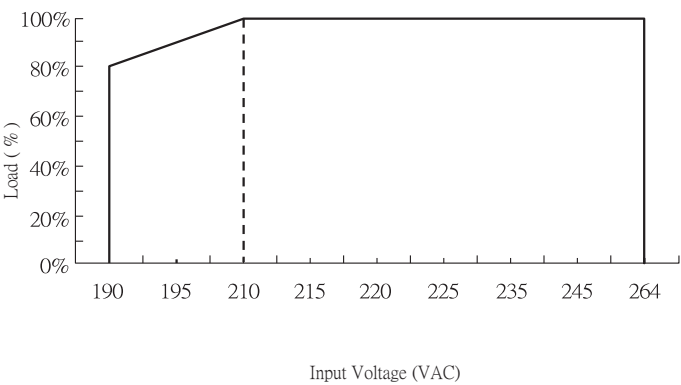


Pinout	Function	
L	AC LINE	Screw:M4*10 Torque:22Kgf.cn(2..... 2N.m)
N	AC NETURAL	
	EARTH	
-V	DC output -	Screw:M5*12.5 Torque:22Kgf.cn(2..... 2N.m)
+V	DC output +	

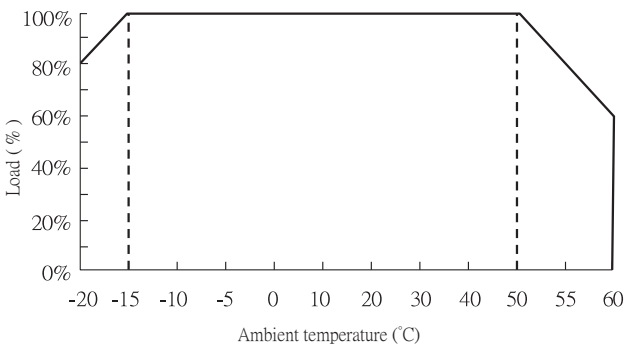
8-M4 Customer system
mounting holes mounting
screws: M4
Installation torque: 8Kgf.cn (0.8N.m)
screws into the housing is not more
than 3mm
Remarks:
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

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.