

Zhitao Group

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Industrial Power Supplies

Product Specifications

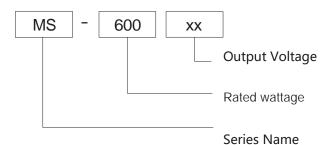
MS-600

- Product Category:600w Single Output Power Supply
- Version number:ztao3.0
- Release date: 1st May 2025

Product Overview

MS-600-XX SERIES PRODUCTS FOR A 600W CHASSIS-TYPE INDUSTRIAL POWER SUPPLY, THE OUTPUT VOLTAGE INCLUDING 12V/24V/36V/48V, ETC., CAN BE ADAPTED TO DIFFERENT LOAD APPLICATION REQUIREMENTS TO MEET THE NEEDS OF MOST INDUSTRIAL APPLICATIONS, FAN COOLING, AS WELL AS A FULL RANGE OF PROTECTION, TO ENSURE THAT THIS SERIES OF PRODUCTS OF HIGH RELIABILITY AND HIGH STABILITY.

Model encoding



product characteristics

- The AC range input is switched via the switch
- 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

600W SINGLE OUTPUT POWER SUPPLY



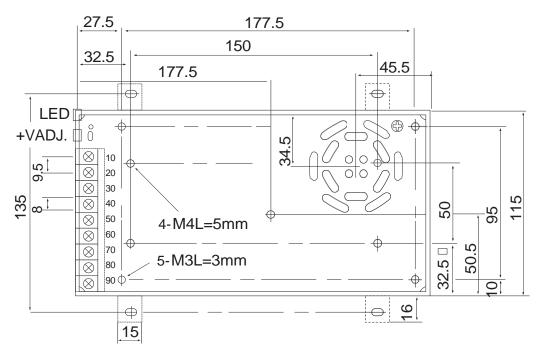


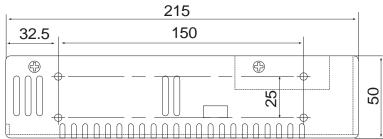
Electrical Specifications

	Model	MS-600-24			MS-600-36	5		MS-600-48	
	DC output voltage	24V		36V			48V		
Output	Rated current	25A		16.7A			12.5A		
	Current range	0~25A		0~16.7A		0~12.5A			
	Rated power	600W		601.2W			600W		
	Ripple & Noise (Max)	240mVp-p		300mVp-p		300mVp-p			
	voltage adjustment	21.6~26.4V		32.4~39.6V		43.2~52.8V			
	range			32.7 33.01					
	voltage accuracy	±1%		±1%		±1%			
	Linear adjustment rate	±0.5%		±0.5%		±0.5%			
	Load Adjustment Ratio	±0.5%		±0.5%			±0.5%		
	start-up & rise time	1200ms,50ms/230VAC 1500ms,50ms/115VAC (at full load)							
	Holding time	18mS/230VAC 14mS/115VAC (at full load)							
Input	Input Voltage	100~132 VAC/195~264VAC SELECTABLE BY SWITCH 273~370VDC(switc on 230VAC)							
	Input frequency	50~60HZ							
	Efficiency	85%	85%	1	87%		88%	89%	
	Input current	7.0A/115VAC 4.0A/230VAC							
	Leakage current	< 2mA/240VAC							
Protec	overload protection	105~135% of rated power							
tion		Protection mode: +vo down to undervoltage point, automatic recovery after removal of abnormal conditions							
	Overvoltage protection	n 13.8~16.2V 18.7~2		1.7V	28.8~33.6V	41.	4~48.6V	55.2~64.8V	
		Protect mode: shut down the c	output voltage, resta	art 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							
Environ	Operating temperature	-20°C ~+65°C							
ment	Operating humidity	20~90%rh No condensation							
	Storage	-40~+80°C 10~95%rh, no condensation							
c :	temperature/humidity								
Security	Vibration-resistant pressure resistance	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	215*115*50mm (L*W*H)							
	Packaging	1.3kg/pcs							
Remarks		 All parameters are measured at 230vac input, rated load and 25°C when not specified. 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. Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio. Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time. 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)





Terminal Pin No. Assignment

Assignment			
AC/N(DC+)			
AC/L(DC-)			
FG 🖶			
DC OUTPUT -V			
DC OUTPUT +V			

Pinout	Function				
L	AC LINE	Screw:m4*9.5			
N	AC NETURAL				
	EARTH	Torque:22Kgf.cn(2 2N.m)			
-Vo	DC output -	-			
-Vo	DC output -				
-Vo	DC output -	Screw:m4*9.5 Torque:22Kgf.cn(2 2N.m)			
+Vo	DC output +	Torque.zzngt.cn(z zn.in)			
+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

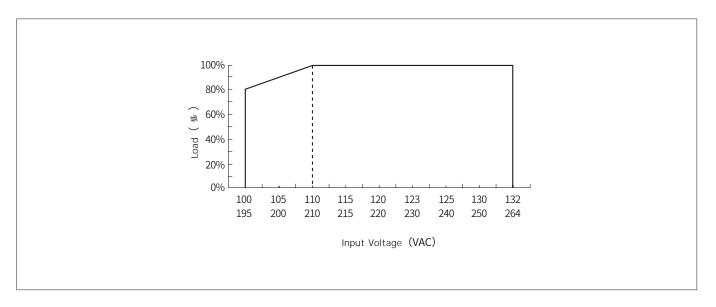
Remarks

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

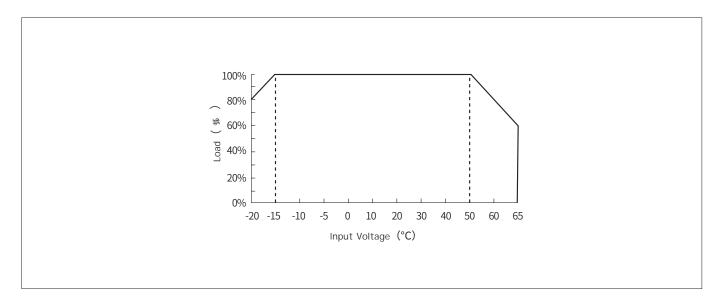


Characteristic Curve

Input Voltage vs Output Load



Ambient temperature vs. output load



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.