



Zhitao Group

ZHITAO GROUP

Industrial Power Supplies

Product Specifications

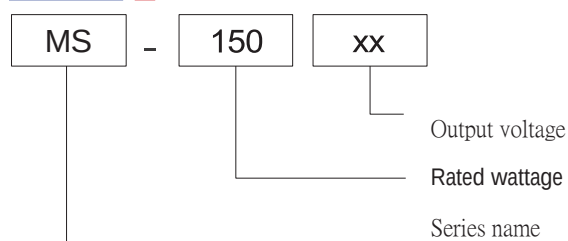
MS-150

- Product Category: 150w single output power supply
- Version number: ztao3.0
- Release date: 1st May 20

Product Overview

MS-150-XX SERIES PRODUCTS FOR A 150W CHASSIS-TYPE INDUSTRIAL POWER SUPPLY, THE OUTPUT VOLTAGE INCLUDING 12V/24V/36V/48V, ETC., CAN BE ADAPTED TO DIFFERENT LOAD APPLICATION REQUIREMENTS TO MEET MOST OF THE INDUSTRIAL APPLICATIONS, SELF-COOLING HEAT DISSIPATION, AS WELL AS A FULL RANGE OF PROTECTION, TO ENSURE THAT THIS SERIES OF PRODUCTS OF RELIABILITY AND STABILITY.

Model encoding



product characteristics

- The AC input range is switched via
- Type of protection: short circuit/overload/overvoltage
- Cooling by free air convection
- Power on led indicator
- 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)



RoHS



Electrical Specifications

Model		MS-150-12	MS-150-15	MS-150-24	MS-150-36	MS-150-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	12.5A	10A	6.5A	4.2A	3.2A
	Current range	0~12.5A	0~10A	0~6.5A	0~4.2A	0~3.2A
	Rated power	150W	150W	156W	151.2W	153.6W
	Ripple & Noise (Max)	240mVp-p	240mVp-p	320mVp-p	360mVp-p	360mVp-p
	voltage adjustment range	10.2~13.8V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V
	voltage accuracy	±1%	±1%	±1%	±1%	±1%
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	start-up & rise time	1800ms,55ms/230VAC 2000ms,60ms/115VAC (at full load)				
	Holding time	25mS/230VAC 20mS/115VAC (at full load)				
Input	Input Voltage	90~264 VAC 126~370VDC				
	Input frequency	50~60HZ				
	Efficiency	86%	86%	89%	90%	90%
	Input current	3.2A/115VAC 1.6A/230VAC				
	Leakage current	< 2mA/240VAC				
Protection	overload protection	120~140% of rated power Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions				
	Overvoltage protection	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V
		Protect mode: shut down the output voltage, restart to recover				
Environment	Operating temperature	-20°C ~+65°C				
	Operating humidity	20~90%rh No condensation				
	Storage temperature/humidity	-40~+80°C 10~95%rh, no condensation				
	Resistant to vibration	10~500HZ, 5G 10 MIN/CYCLE, X, Y, Z 60 MIN EACH				
Security	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	159*98*38mm (L*W*H)				
	Packaging	0.7kg/pcs				
Remarks		1. All parameters are measured at 230vac input, rated load and 25°C when not 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°C / 1000 metres				



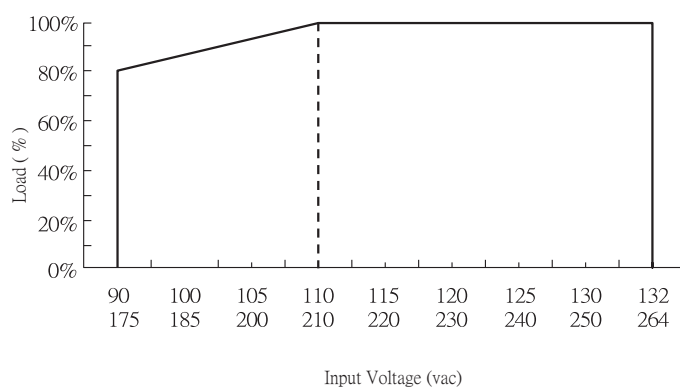
pin No	Assignment
1	AC/L(DC-)
2	AC/N(DC+)
3	FG 
4	DC OUTPUT -V
5	DC OUTPUT -V
6	DC OUTPUT +V
7	DC OUTPUT +V

Pinout	Function	
L	AC LINE	Screw:m4*9.5 Torque:22KgFcn(2..... 2N.m)
N	AC NEUTRAL	
	EARTH	
-V	DC output -	Screw:m4*9.5 Torque:22KgFcn(2..... 2N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

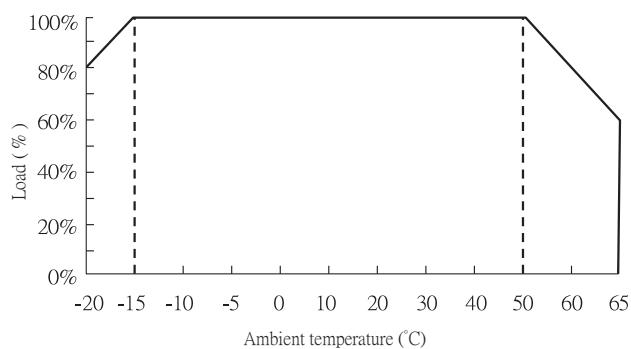
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

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.