

# Zhitao Group

ZHITAO GROUP

Industrial Power Supplies

# Product Specifications

# **MS-15**

- Product Category:15w single output power supply
- Version number:ztao3.0
- Release date: 1st May 2025

#### Product Overview

MS-15-XX SERIES PRODUCTS FOR A 15W CHASSIS-TYPE INDUSTRIAL POWER SUPPLY, THE OUTPUT VOLTAGE INCLUDING 5V/12V/24V, ETC., CAN BE ADAPTED TO DIFFERENT LOAD APPLICATION REQUIREMENTS TO MEET THE NEEDS OF MOST INDUSTRIAL APPLICATIONS, Self-cooling Heat Dissipation, 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

- International full-wide AC inputs
- \_ Type of protection: short
- circuit/overload/overvoltage
- cooling by free air convection
- led indicator for Power on
- 100% full load burn-in test
   3-year warranty

# CE FC ROHS



SISSING CONTRACT

Areas of Application

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

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#### electrical specifications

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	Model	MS-15-5	MS-15-12	MS-15-15	MS-15-24	MS-15-36	MS-15-48		
Output	DC output voltage	5V	12V	15V	24V	36V	48V		
	Rated current	3A	1.25A	1A	0.63A	0.36A	0.32A		
	Current range	0~3A	0~1.25A	0~1A	0~0.63A	0~0.36A	0~0.32A		
	Rated power	15W	15W	15W	15.12W	15.12W	15.36W		
	Ripple & Noise (Max)	120mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p		
	voltage adjustment range	4.5~5.5V	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%	±1%		
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	start-up & rise time	600ms,25ms/230VAC 1000ms,30ms/115VAC(at full load)							
	Holding time	20mS/230VAC;18mS/115VAC (at full load)							
Input	Input Voltage	85~264VAC 120~370VDC							
	Input frequency	50~60HZ							
	Efficiency	78%	80%	80%	86%	87%	87%		
	Input current	0.5A/115VA <b>C</b> 0.2A/230VAC							
	Leakage current	< 1mA/240VAC							
Prote ction	overload protection	125~150% of rated power							
		Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions							
	Overvoltage protection	5.9~7.3V	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							
Envir onme nt	Operating temperature	-20°C <b>~+65</b> ℃							
	Operating humidity	20~90%rh No condensation							
	Storage temperature/humidity	-40~+80°C 10~95%rh, no condensation							
	Vibration-resistant	10~500HZ, 5G 10 MIN/CYCLE, X, Y, Z 60 MIN EACH							
Securit	pressure resistance	Input to output :1.5kvac; Input to ground :1.5kvac; Output to ground :500vac							
У	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH							
Others	Product dimensions	78*48*21mm (L*W*H)							
	Packaging	0.1kg/pcs							
	Remarks	<ol> <li>Ripple and noise vo pair cable, measured at</li> <li>Accuracy: Includes</li> <li>Linear Adjustment R</li> <li>Load Adjustment R</li> <li>Start-up time is measured</li> </ol>	oltages were measured on 20MHZ bandwidth. setting error, linear adjus Ratio Measurement Methatio Measurement Metho asured at cold start, fast a	r, rated load and 25°C who a 20MHz bandwidth osc stment ratio and load adju tod: Test from low voltag d: From 0% to 100% of n nd frequent switching on ) metres (6500ft): the ope	illoscope with 0.1 $\mu$ and istment ratio. e to high voltage at rated rated load and off may increase the	load start-up time.			



Outline and Mounting Dimensions (mm)



pin <b>No</b>	Assignment		
1	AC/L(DC-)		
2	AC/N(DC+)		
3	FG 🖨		
4	DC OUTPUT -V		
5	DC OUTPUT +V		

Pinout	Function			
L	ACLINE	Screw:m3*8		
Ν	AC NETURAL	Torque:8Kgf.cn( 0.8N.m)		
	EARTH			
-V	DC output -			
+V	DC output +	Screw:m3*8 Torque:8Kgf.cn( 0.8N.m)		

8-m3 Customer system mounting holes mounting screws:m3 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].

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Characteristic Curve

#### Input Voltage vs Output Load



#### Ambient temperature vs. output load



#### Remarks:

If you need to know more detailed test data, please contact our technical support to get the application notes of the corresponding products.
 This product is suitable for use in a natural air convection environment, if used in a closed environment, please contact our technical support staff.

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