



# Zhitao Group

ZHITAO GROUP

Industrial Power Supplies

## Product Specifications

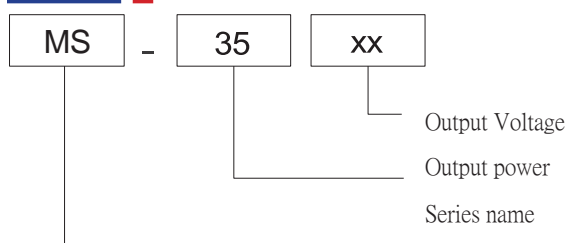
# MS-35

- Product Category: 35W single output power supply
- Version number: ztao3.0
- Release date: 1st May 2025

### Product Overview

MS-35-XX SERIES PRODUCTS IS A 35W CHASSIS TYPE INDUSTRIAL POWER SUPPLY, THE OUTPUT VOLTAGE INCLUDES 5V/12V/24V /36V/48V, 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-scope exchange inputs
- 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

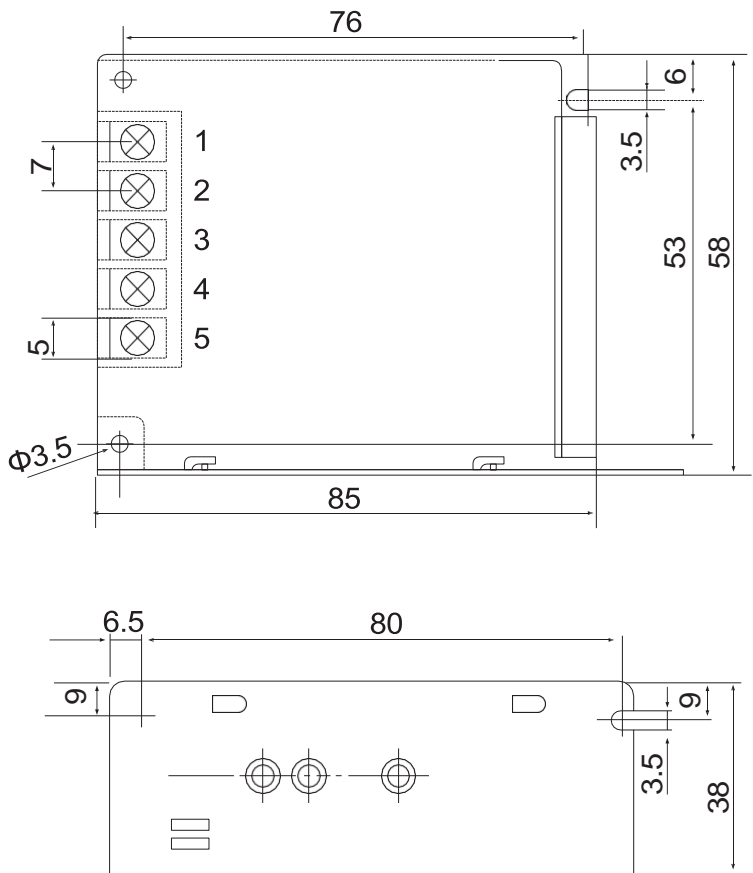
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

electrical specifications

Model		MS-35-5	MS-35-12	MS-35-15	MS-35-24	MS-35-36	MS-35-48
Output	DC output voltage	5V	12V	15V	24V	36V	48V
	Rated current	7A	3A	7A	1.5A	1A	0.75A
	Current range	0~7A	0~3A	0~7A	0~1.5A	0~1A	0~0.75A
	Rated power	35W	36W	35W	36W	36W	36W
	Ripple & Noise (Max)	80mVp-p	80mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-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	1000ms,25ms/230VAC      1000ms,30ms/115VAC(at full load)					
	Holding time	20mS/230VAC;15mS/115VAC (at full load)					
Input	Input Voltage	90~264VAC      126~370VDC					
	Input frequency	50~60HZ					
	Efficiency	79%	83%	83%	86.5%	88%	88%
	Input current	0.8A/115VAC      0.4A/230VAC					
	Leakage current	< 1mA/240VAC					
Protection	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					
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					
	Vibration-resistant	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	85*58*38mm (L*W*H)					
	Packaging	0.25kg/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					

Outline and Mounting Dimensions (mm)



Terminal Pin No. Assignment

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

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

8-m3 Customer system

mounting holes mounting

screws:m3

Installation torque: 8Kgf.cn (0.8N.m)

screws into the housing is not more

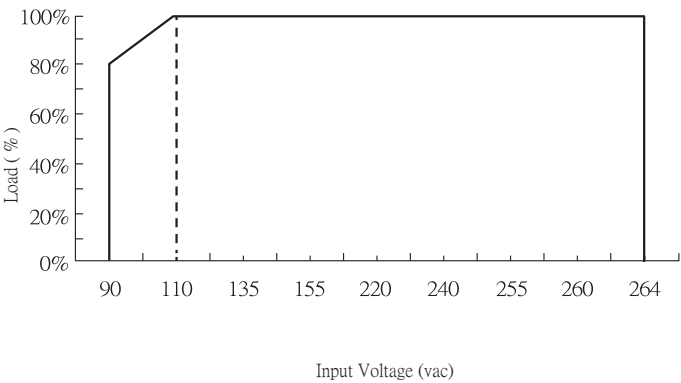
than 3mm

Remarks:

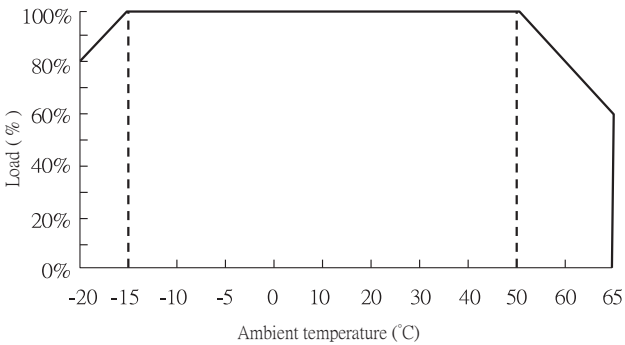
Unit: mm [inch]; unlabelled tolerances are  $\pm 0.5$  [ $\pm 0.020$ ].

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.