



**Zhitao Group**  
ZHITAO GROUP

Industrial Power Supplies

## Product Specifications

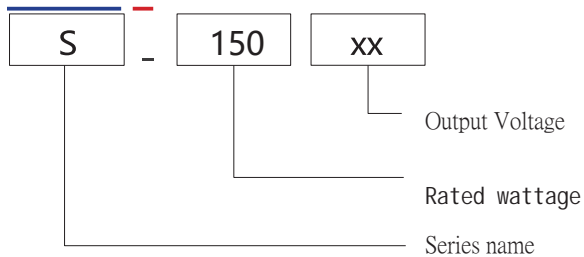
# S-150

- Product Category: 150W Single Output Power Supply
- Version No.: ZTAO3.0
- Release date: 1st May 2025

### product overview

S-150-XX series products for a 150W chassis-type industrial power supply, the output voltage including 5V/12V/24V/36V/48V, etc., can be adapted to different load application requirements to meet the majority of 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

- The AC range input is switched via the switch
- 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

### areas of application

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



RoHS

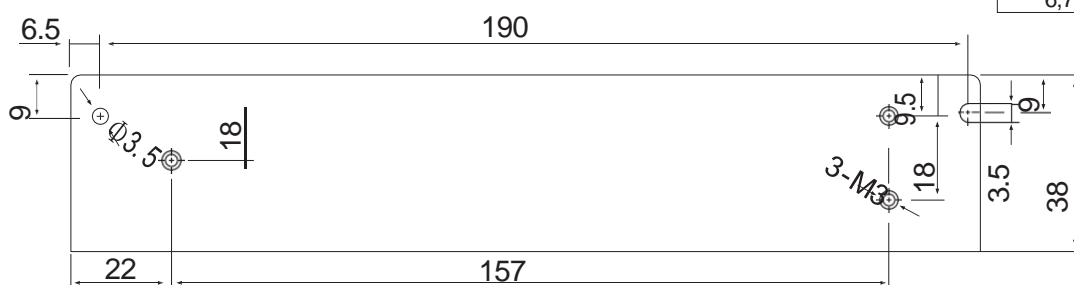



electrical specifications

Model		S-150-5	S-150-12	S-150-15	S-150-24	S-150-36	S-150-48
Output	DC output voltage	5V	12V	15V	24V	36V	48V
	Rated current	30A	12.5A	10A	6.5A	4.2A	3.2A
	Current range	0~30A	0~12.5A	0~10A	0~6.5A	0~4.2A	0~3.2A
	Rated power	150W	150W	150W	156W	151.2W	153.6W
	Ripple & Noise (Max)	100mVp-p	100mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-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,35ms/230VAC                      1200ms,40ms/115VAC (at full load)					
	Holding time	60mS/230VAC;20mS/115VAC (at full load)					
Input	Input Voltage	85~132VAC/ 170~264VAC selectable by switch				240~370VDC(switc on 230VAC)	
	Input frequency	50~60HZ					
	Efficiency	77%	86%	86%	88.5%	89%	90%
	Input current	3.0A/115VAC    1.6A/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
Envir onme nt	Operating temperature	-20℃ ~+65℃					
	Operating humidity	20~90%RH No condensation					
	Storage temperature/humidity	-40~+80℃ 10~95%RH, no condensation					
	Vibration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each					
Securit y	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℃ /70%RH					
Others	Product dimensions	199*98*38mm ( L*W*H )					
	Packaging	0.52kg/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					

[illegible]

Pin No.	Assignment
1	AC/N(DC+)
2	AC/L(DC-)
3	FG ( $\oplus$ )
4,5	DC OUTPUT -V
6,7	DC OUTPUT +V

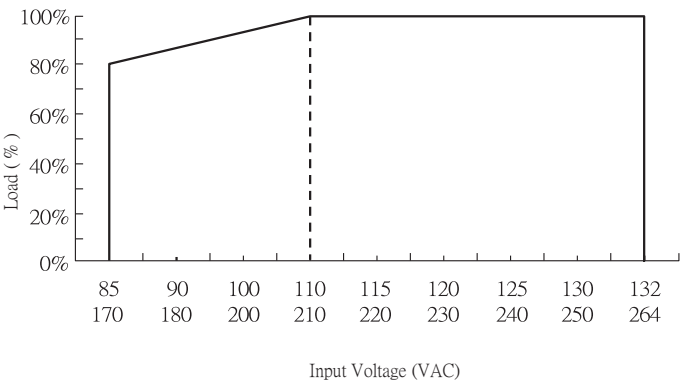


Pinout	Function	
L	AC LINE	Screw:M4*9.5 Torque:22Kgf.cm( 2..... 2N.m)
N	AC NETURAL	
	EARTH	
-V	DC output -	Screw:M4*9.5 Torque:22Kgf.cm( 2..... 2N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

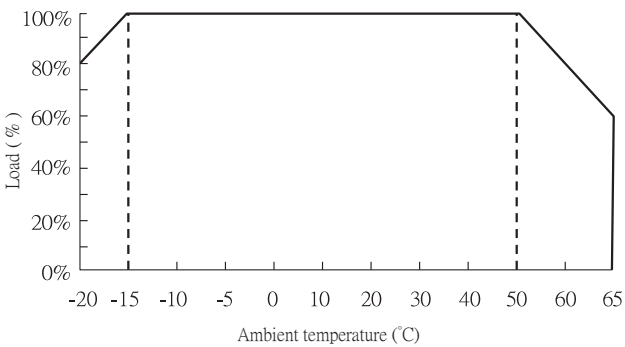
Unit: mm [inch]; unlabelled tolerances are  $\pm 0.5$  [ $\pm 0.020$ ].

Characteristic Curve

Input Voltage VS Output Load



Ambient Temperature VS Output Load



- Note:
- 1.If you need 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.