

Industrial Power Supply

Product Specification

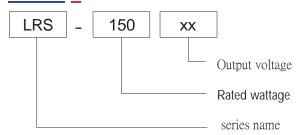
LRS-150

- Product Category: 150W single output switching power supply
- Version No.: ZTAO3.0
- Release date: May 1, 2025

Product Overview

The AC input range is switched by a switch, no-load power consumption <1.7W, small size 1U low profile, protection types: short circuit/overload/overcurrent protection, natural air cooling, power start LED indicator, 100% full load burn-in test, 3-year warranty.

Model Encoding



Product Features

- AC input is switched by switch,
- no-load power consumption <1.7W
- Small size, 1U low profile
- Protection type: short circuit/ overload/overvoltage
- air cooling
- Power on LED indicator
- 100% full load burn-in test
- 3-year warranty

CE FE RoHS ISO

Application Areas

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

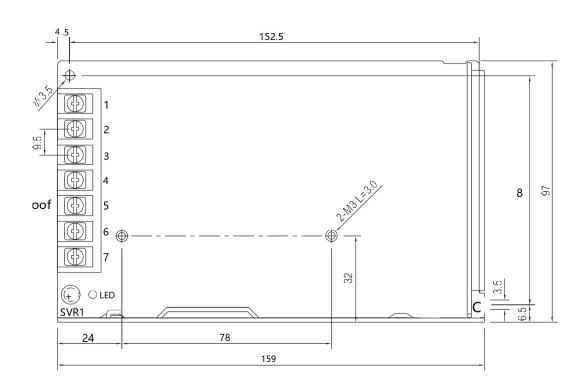


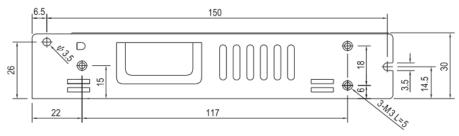
Electrical Specifications

	model	LRS-150-12	LRS-150-15	LRS-150-24	LRS-150-36	LRS-150-48		
	DC output voltage	12V	15V	24V	36V	48V		
	Rated current	12.5A	10A	6.5A	4.3A	3.3A		
	Current range	0~12.5A	0~10A	0~6.5A	0~4.3A	0~3.3A		
Output	Rated Power	150W	150W	156W	154.8W	158.4W		
Output	Ripple & Noise(Max)	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-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%		
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	Startup & Rise Time	500ms,30ms/230VAC	500ms,30ms/115	/AC (full load)				
	Keep Time	30mS/230VAC 12mS/115VAC (at full load)						
Input	Input voltage	90~132 VAC/175~264VAC selectable by switch 245~370VDC(switc on 230VAC)						
	Input frequency	50~60HZ						
	efficiency	86%	86%	88%	88%	89%		
	Input Current	3A/115VA C 1.7 A/230V AC						
	Leakage Current	< 1mA/240VAC						
	Overload protection	120~140% of rated power						
Protec	Overload protection	Protection mode: hiccup protection, automatic recovery after abnormal conditions are removed						
tion	Overvoltage protection	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V		
		Protection mode: turn off the output voltage and restart to recover						
	Operating temperature	-20°C ~+65°C						
Enviro	Operating humidity	20~90%RH no condensation						
nment	Storage temperature/humidity	-40~+80°C 10~95%RH, no condensation						
	Vibration resistance	10~500HZ,5G 10 minutes/cycle,X,Y,Z 60 minutes each						
Safety	Pressure resistance	Input to output: 1.5KVAC; Input to ground: 1.5KVAC; Output to ground: 500VAC						
Barety	Insulation resistance	Input to output, input to ground, output to ground: 100 Ohms/500VDC/25°C/70%RH						
other	Product size	159*97*30mm (L*W*H)						
Other	Package	0.4kg/pcs						
		 All parameters, unless otherwise specified, are measured at 230VAC input voltage, rated load and 25°C. The ripple and noise voltages are measured with a 20MHz bandwidth oscilloscope with 0.1 μ and 47 μ capacitors added to the ends of 12-inch twisted pair cables. The measurements are performed at a 20MHz bandwidth. Accuracy: includes setting error, line regulation and load regulation. Linear regulation measurement method: Test from low voltage to high voltage under rated load 						
	Remark	 5. Load Regulation Measurement Method: From 0% to 100% rated load 6. The startup time is measured under cold start condition. Rapid and frequent power on and off may increase the startup time. 7. When the operating altitude is higher than 2000 meters (6500ft): the operating environment needs to be lowered by 5°C/1000 meters 						



Mechanical Specification and Installation (mm)





Terminal	nia	definition

pin number	Pin function	pin number	Pin function
1	AC/L	45	DC OUTPUT-V
2	AC/N	6.7	DC OUTPUT + V
3	FG +		

Pinout	Function		
L	AC LINE	Screw:M4*9.5	8-M4 Customer syste
N	AC NETURAL	Torque: 22Kgf.cn (2 2N.m)	mounting hole Mour
(a)	EARTH		screw: M4
-Vo	DC output -		Installation torque: 8
-Vo	DC output -	Screw:M4*9.5 Torque: 22Kgf.cn (2 2N.m)	screw should not ex
+Vo	DC output +		more than 3mm
+Vo	DC output +		Remark:
			Unit: mm [inch]; to

unting

8Kgf.cn (0.8Nm) The

xtend into the housing

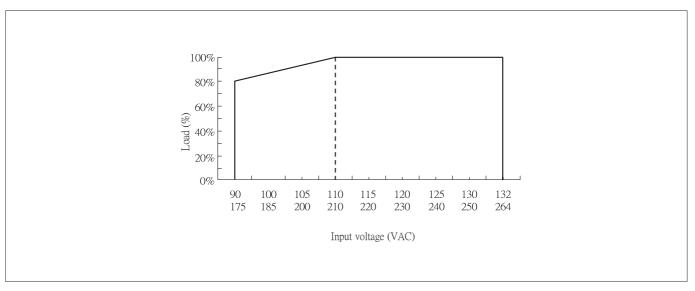
tolerance not specified is ±0.5 [±0.020]

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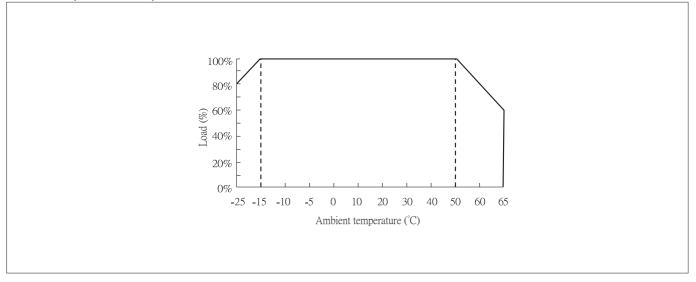


Characteristic Curves

Input voltage vs output load



Ambient temperature vs output load



Note:

- 1. If you need to know more detailed test data during application, please contact our technical support to obtain the application notes of the corresponding products.
- 2. This product is suitable for use in a natural air convection environment. If it is used in a closed environment, please contact our technical support personnel.

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