



志涛集团
ZHITAO GROUP

Industrial power supply

Specification

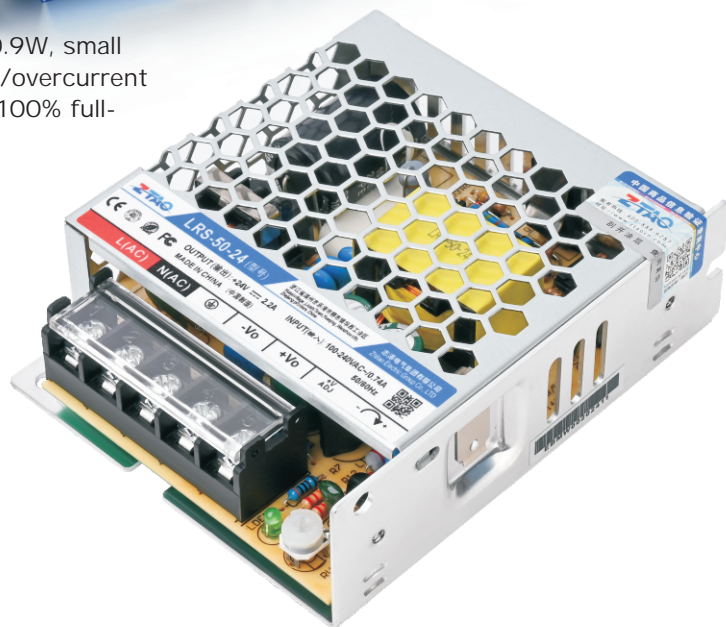
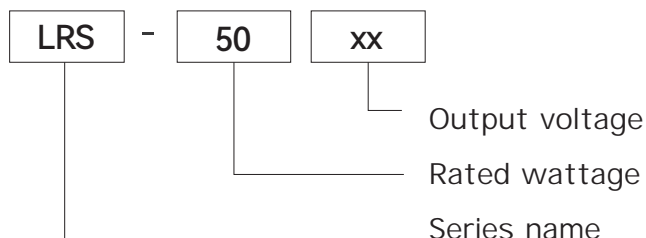
LRS-50

- product category: 50w single output power supply
- version No: ZTAO3.0
- release date: May 1st, 2025

Description

International full-range AC input, no-load power consumption <0.9W, small size 1U low appearance, protection types: short circuit/overload/overcurrent protection, natural air cooling, power start LED indicator light, 100% full-load burn-in test, 3-year warranty

Model Encoding



Features

- International full-range AC input
- no-load power consumption <0.9W
- small size 1U low appearance
- protection types: short circuit/overload/overvoltage
- air cooling
- power start LED indicatorlight
- 100% full-load burn-in test
- 3 years warranty

Application

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



01-01

志涛电源·不仅仅是足功率电源

400-888-6287

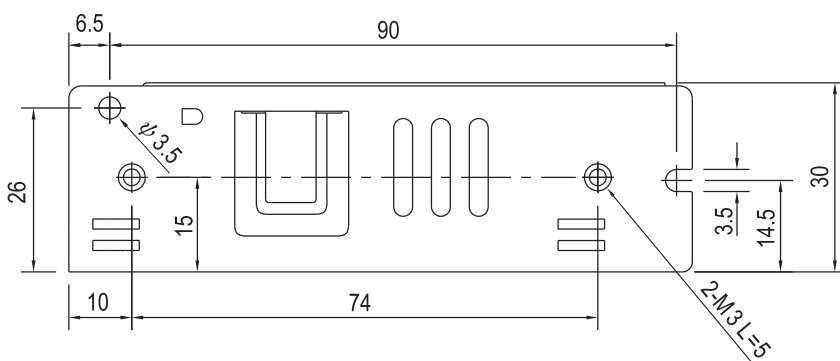
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50W single output Switching power supply
LRS-50 Series



Model Specification

Model		LRS-50-5	LRS-50-12	LRS-50-15	LRS-50-24	LRS-50-36	LRS-50-48
Output	DC Voltage	5V	12V	15V	24V	36V	48V
	Rated Current	10A	4.2A	3.4A	2.2A	1.45A	1.1A
	Current Range	0~10A	0~4.2A	0~3.4A	0~2.2A	0~1.45A	0~1.1A
	Rated Power	50W	50.4W	51W	52.8W	52.2W	52.8W
	Ripple&Noise(max.)	80mVp-p	100mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p
	Voltage ADJ. 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 Tolerance	±1%	±1%	±1%	±1%	±1%	±1%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Setup,Rise time	1000ms,30ms/230VAC 2000ms,30ms/115VAC at full load					
	Hold up time	30mS/230VAC; 12mS/115VAC at full load					
Input	Voltage Range	90~264VAC 127~370VDC					
	Frequency Range	50~60HZ					
	Efficiency	84%	86%	86%	89%	89%	90%
	AC Current	0.95A/115VAC 0.56A/230VAC					
	Inrush Current	< 1mA/240VAC					
Protection	Overload	125~150% rated output power					
		Hiccup protection, Recovers automatically after fault condition is removed					
	Over Voltage	5.9~7.3V	13.8~16.2V	18.7~21.7V	28.8~33.6V	41.4~48.6V	55.2~64.8V
Environment	Protection type: Turn off the output voltage and restart to restore						
	Working Temp.	-20°C ~+65°C					
	Working Humidity	20~90%RH non-condensing					
	Storage Temp., Humidity	-40~+80°C 10~95%RH, non-condensing					
	Vibration	10~500HZ, 5G 10 min/1cycle,period for 60min, each along X、Y、Z axes					
Safety	Withstand Voltage	I / P - O / P :1.5KVAC; I / P - F G :1.5KVAC; O / P - F G :500VAC					
	Isolation Resistance	I/P-O/P、I/P-FG、O/P-FG:100 Ohms/500VDC/25°C /70%RH					
Others	Dimension	99*82*30mm (L*W*H)					
	Packing	0.2kg/pcs					
Note		<p>1. All parameters Not specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature,</p> <p>2. Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf&47uf parallel capacitor.</p> <p>3. Tolerance: includes set up tolerance, line regulation and load regulation</p> <p>4. Line regulation is measured from low line to high line at rated load</p> <p>5. Load regulation is measured from 0% to 100% rated load.</p> <p>6. Length of set up time is measured at cold first start, Turning ON/OFF the power supply very quickly may lead to increase of the set up time</p> <p>7. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft)</p>					

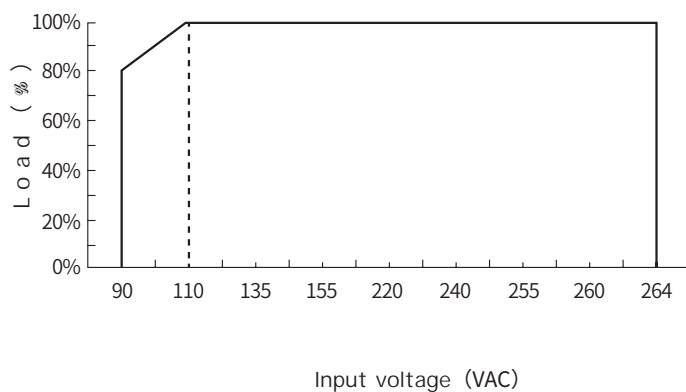


Pin	Assignment	Pin	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG		

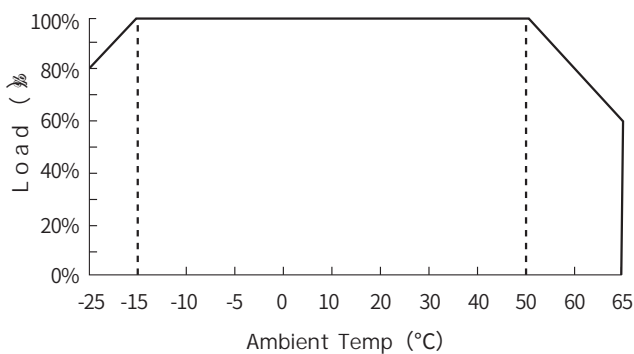
单位: mm[inch]; 未标注公差为 $\pm 0.5[\pm 0.020]$

characteristic curve

Input voltage VS Output load



AMBIENT TEMPERATURE VS Output Load



Note:

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