



志涛集团
ZHITAO GROUP

Industrial power supply

Product Specifications

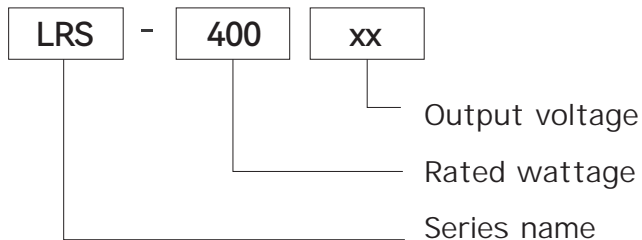
LRS-400

- Product category: 400W single-output power supply
- Version Number: ZTAO3.0
- Release date: May 1st, 202

Product Overview

The input range for AC is switched by a switch. The no-load power consumption is less than 2.7W. It has a small size of 1U low profile. Protection types include short circuit, overload, overcurrent, etc. It is cooled by a fan. There is a power-on LED indicator light. It has undergone 100% full-load burn-in testing. It comes with a 3-year warranty.

Model encoding



Product features

- International full-range AC input
- No-load power consumption <2.7W
- Compact size, 1U low profile
- Protection types: Short circuit / Overload / Overvoltage
- Fan cooling
- LED indicator for power on
- 100% full-load burn-in test
- 3-year warranty

Application fields

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



RoHS



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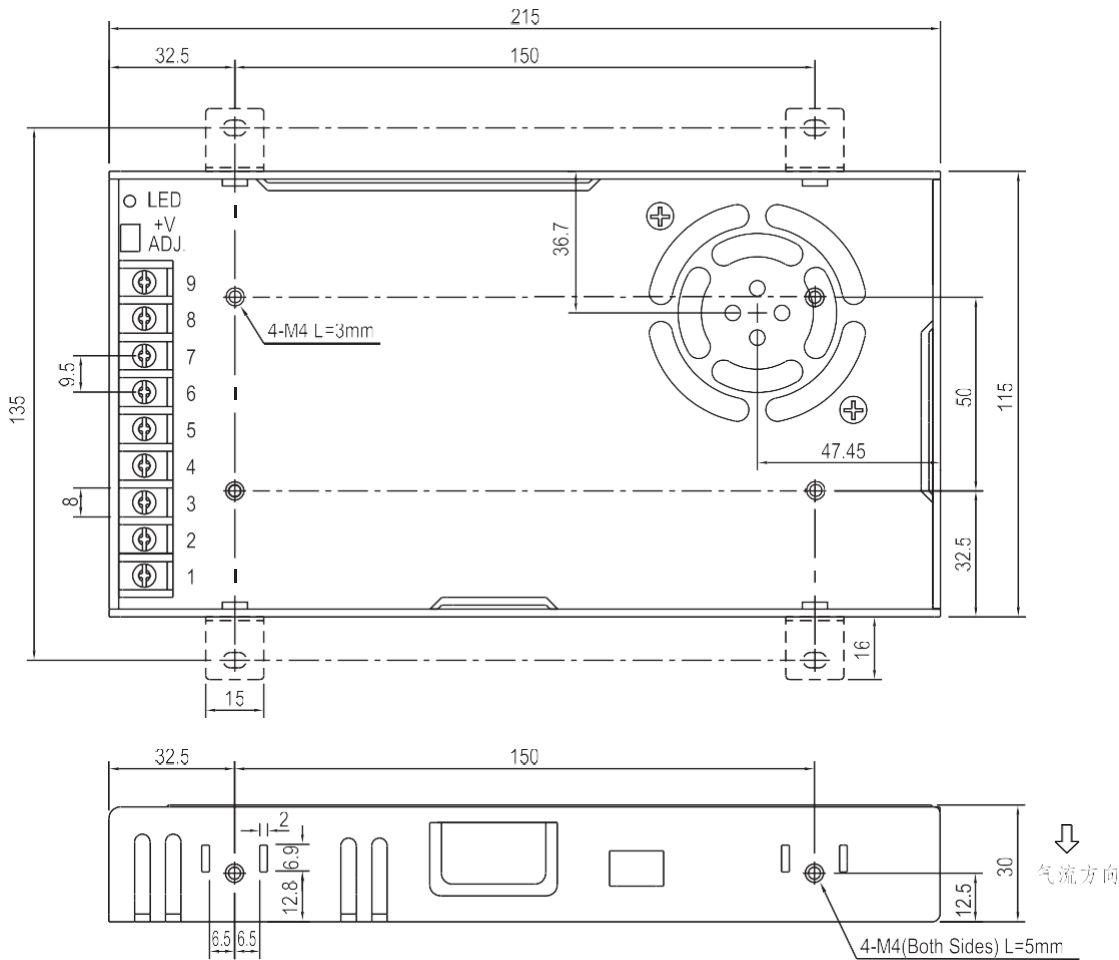
Zhitao Power Supply - is not just a full power supply

400-888-6287

electrical specifications

Model		LRS-400-12	LRS-400-15	LRS-400-24	LRS-400-36	LRS-400-48
Output	DC output voltage	12V	15V	24V	36V	48V
	Rated current	33A	26.5A	16.6A	11A	8.3A
	Current range	0~33A	0~26.5A	0~16.6A	0~11A	0~8.3A
	Rated power	396W	397.5W	398.4W	396W	398.4W
	Ripple & Noise (MAX)	150mVp-p	150mVp-p	200mVp-p	240mVp-p	240mVp-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%
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Adjustment Ratio	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	start-up & rise time	1500ms,30ms/230VAC 1500ms,30ms/115VAC (at full load)				
	Holding time	20mS/230VAC 15mS/115VAC (at full load)				
Input	Input Voltage	95~132 VAC/185~264 VAC selectable via switch 260~370VDC(switc on 230VAC)				
	Input frequency	50~60HZ				
	Efficiency	85%	85%	87%	87%	88%
	Input current	6.8A/115VAC 2.4A/230VAC				
	Leakage current	< 1mA/240VAC				
Protec tion	overload protection	110~135% of rated power				
		Protection mode: hiccup protection, automatic recovery after removal of abnormal conditions				
	Overvoltage protection	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				
Function	Fan On/Off Control (Typ.)	The fan rotates straight				
Environ ment	Operating temperature	-20℃ ~+65℃				
	Operating humidity	20~90%RH No condensation				
	Storage temperature/humidity	-40~+80℃ 10~95%RH, no condensation				
Security	Vibration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each				
	pressure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC				
Others	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25℃ /70%RH				
	Product dimensions	215*115*30mm (L*W*H)				
	Packaging	0.6k g/pcs				
Remarks		<p>1. All parameters are measured at 230VAC input, rated load and 25℃ when not otherwise specified.</p> <p>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.</p> <p>3. Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio.</p> <p>4. Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load</p> <p>5. Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load</p> <p>6. Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time.</p> <p>7. When operating at altitudes higher than 2000 metres (6500ft); the operating environment needs to be reduced by 5℃ / 1000 metres</p>				

Outline and Mounting Dimensions (mm)



Terminal Pin No. Assignment

pin	Assignment	pin	Assignment
1	AC/L		
2	AC/N	4~6	DC OUTPUT -V
3	FG	7~9	DC OUTPUT +V

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

8-M4 Customer system
mounting holes mounting
screws: M4

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

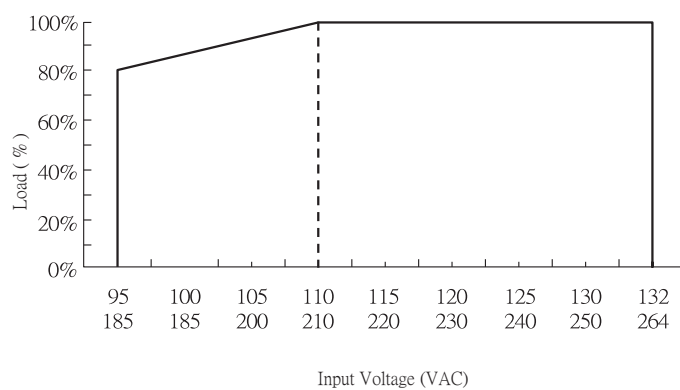
screws into the housing is not more
than 3mm

Remarks:

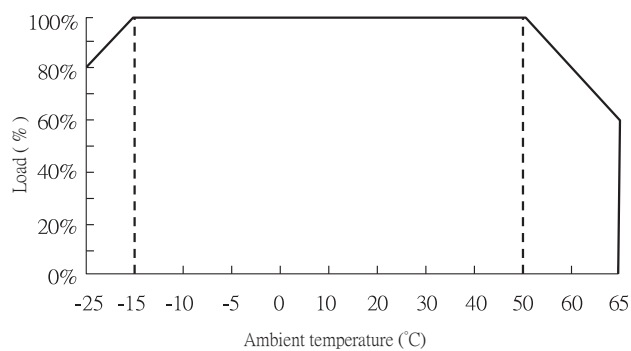
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

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.