



Product Specifications

# LRS-120

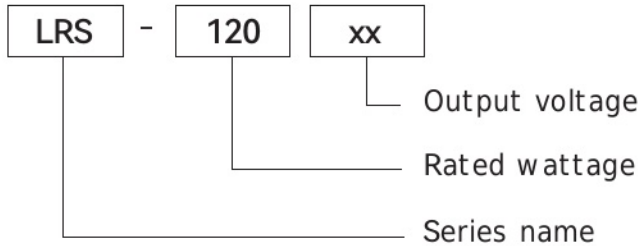
- Product category: 120W single-output power supply
- Version Number: ZTAO3.0
- Release date: May 1st, 2025



## Product Overview

International full-range AC input, no-load power consumption < 1.5W, small 1U low-profile design, protection types: short circuit / overload / overcurrent protection, natural air cooling, power-on LED indicator, 100% full-load burn-in test, 3-year warranty.

## Model encoding



## Product features

- International full-range communication input
- No-load power consumption < 1.5W
- Compact size, 1U low profile
- Protection types: Short circuit / Overload / Overvoltage
- Cooling by free air convection
- 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)

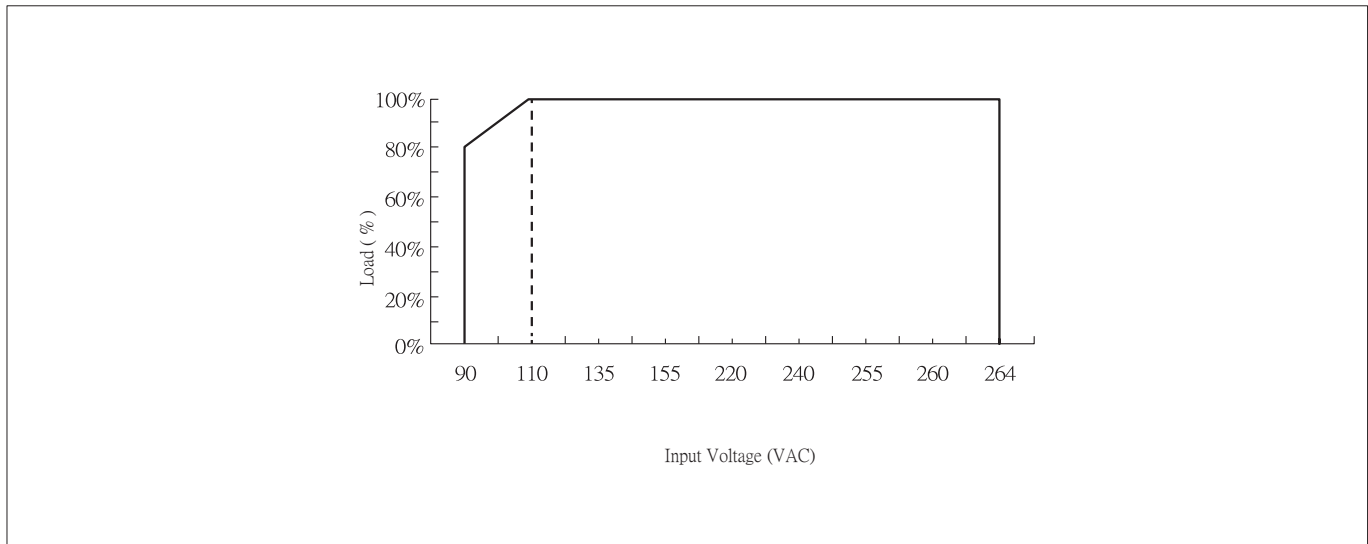
electrical specifications

Model		LRS-120-5	LRS-120-12	LRS-120-15	LRS-120-24	LRS-120-36	LRS-120-48	
Output	DC output voltage	5V	12V	15V	24V	36V	48V	
	Rated current	18A	10A	8A	5A	3.4A	2.5A	
	Current range	0~18A	0~10A	0~8A	0~5A	0~3.4A	0~2.5A	
	Rated power	90W	120W	120W	120W	122.4W	120W	
	Ripple & Noise (MAX)	120mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-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	1200ms,30ms/230VAC		1800ms,30ms/115VAC (at full load)				
Holding time	35mS/230VAC 15mS/115VAC (at full load)							
Input	Input Voltage	90~264VAC		127~370VDC				
	Input frequency	50~60HZ						
	Efficiency	80%	85%	86%	88%	88%	89%	
	Input current	1.9A/115VAC		1.2A/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	
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	129*97*30mm (L*W*H)						
	Packaging	0.3kg/pcs						
Remarks	<ol style="list-style-type: none"> <li>All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified.</li> <li>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.</li> <li>Accuracy: Includes setting error, linear adjustment ratio and load adjustment ratio.</li> <li>Linear Adjustment Ratio Measurement Method: Test from low voltage to high voltage at rated load</li> <li>Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load</li> <li>Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time.</li> <li>When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres</li> </ol>							

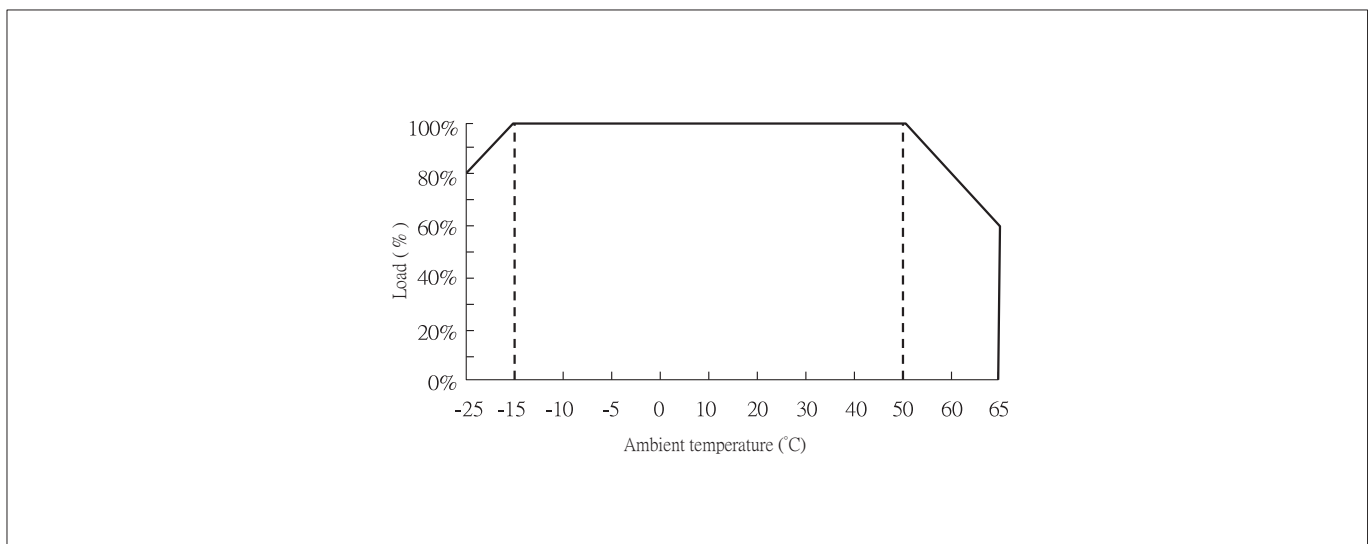


### Characteristic Curve

#### 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.