Zhitao Group
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Industrial Power Supplies

Product Specifications

DXS-500

- Product Category:500W single output digital display adjustable power supply
- Version No.:ZTAO3.0
- Release date: :May 1st, 2025
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Product Overview

DXS-500 is a double-display adjustable voltage regulator switching power supply,

AC input range 100~120/ 200~240V (switching replacement), worldwide, output voltage including 5V/12V/36V8V /60V/80V/110V/220V, etc., temperature-controlled fan cooling, DC output voltage throughout the 0V adjustable, DC output current throughout the 0A can be preset, the output voltage and current can be customised to analogue signals 0~5V or 0~10V control, the product is suitable for motor speed control, light dimming, battery charging and so on.

Model Encoding

DXS - 500 xx

- xx: Output voltage outpu
- 500: Rated power
- DXS: series name

product characteristi cs

- AC input range 100~120/200~240V (switch replacement)
- Protection type: short circuit/overload/over temperature
- fan cooling
- Power on LED indicator
- 100% full load burn-in test
- 3-year warranty

CE FC RoHS ISO ISO9001

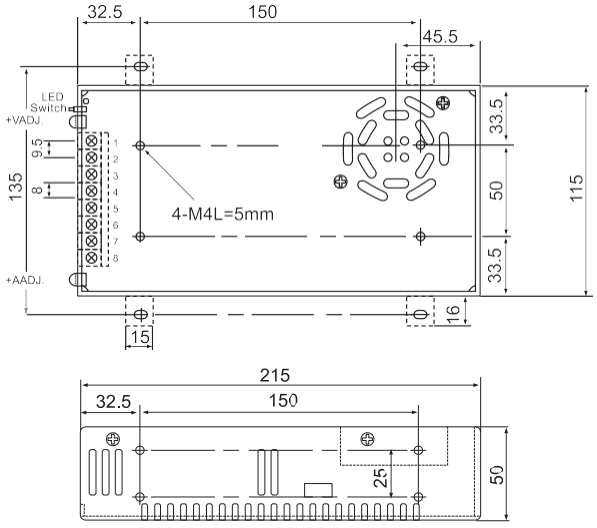
Areas of Application

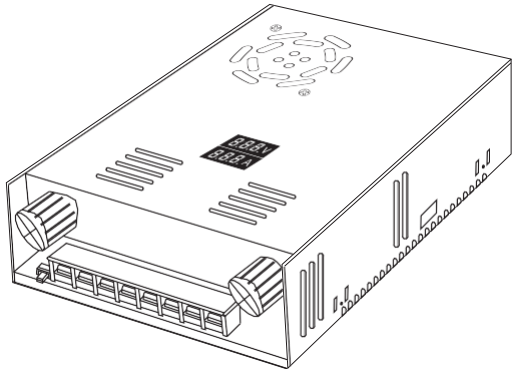
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, UV curing equipment, semiconductor equipment, etc. (except information technology equipment)

electrical specifications

Model		DXS-500-5	DXS-500-12	DXS-500-24	DXS-500-36	DXS-500-48	DXS-500-60	DXS-500-110	DXS-500-220
Output	DC output voltage	5V	12V	24V	36V	48V	60V	110V	220V
	Rated current	60A	40A	20A	13.8A	10A	8.3A	4.5A	2.2A
	Current range	0~60A	0~40A	0~20A	0~13.8A	0~10A	0~8.3A	0~4.5A	0~2.2A
	Rated power	300W	480W	480W	496.8W	480W	498W	495W	484W
	Ripple & Noise (Max)	200mVp-p	200mVp-p	240mVp-p	320mVp-p	360mVp-p	500mVp-p	850mVp-p	1000mVp-p
	Output Voltage Adjustment	0~8V	0~15V	0~27V	0~38V	0~52V	0~79.2V	0~121V	0~230V
	voltage accuracy	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Linear adjustment rate	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Load Adjustment Ratio	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	start-up & rise time	1500ms,100ms/230VAC (at full load)							
Input	Input Voltage	100~132/200~264V (switch replacement) 280~370VDC							
	Input frequency	50~60HZ							
	Efficiency	80%	85%	87%	88%	89%	90%	90%	90%
	Input current	8A/115VAC 4A/230VAC							
	Leakage current	< 3.0mA/240VAC							
Protection	short-circuit protected	Protection mode: constant current limitation, restart recovery after removal of abnormal conditions							
	Over temperature	Output voltage is switched off and restored after temperature drop or reboot							
Function	Customisable analogue signals	0~5V/0~10V,0~5A/0~10A control (voltage, current)							
	Fan On/Off Control (Typ.)	TH3 ≥ 50 ℃ fan on, ≤ 40 ℃ fan off							
Environment	Operating temperature	-20℃~+60℃							
	Operating humidity	20~90%RH No condensation							
	Storage temperature/humidity	-40~+80°C 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							
	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25℃ /70%RH							
	Product dimensions	215*115*50mm (L*W*H)							
Others	Packaging	1.6kg/pcs							
	Remarks	1. All parameters are measured at 230VAC input, rated load and 25°C when not otherwise specified. 2. Ripple and noise voltages were measured on a 20MHz bandwidth oscilloscope with 0.1μ and 47μ 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°C / 1000 metres							

Outline and Mounting Dimensions (mm)





Terminal Pin No.Assignment

pin No	Assignment
7	AC/N(DC+)
6	AC/L(DC-)
5	FG ⏚
4,3	DC OUTPUT -V
2,1	DC OUTPUT +V

Pinout	Function	
L	AC LINE	Screw:M4*10 Torque:22Kgf.cn(2.2N.m)
N	AC NETURAL	
⏚	EARTH	
-V	DC output -	Screw:M4*10 Torque:22Kgf.cn(2.2N.m)
-V	DC output -	
+V	DC output +	
+V	DC output +	

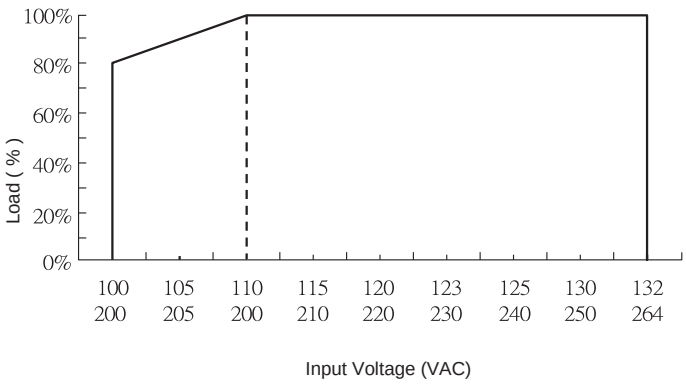
8-M4 Customer system
mounting holes
mounting screws: M4
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm

Remarks:

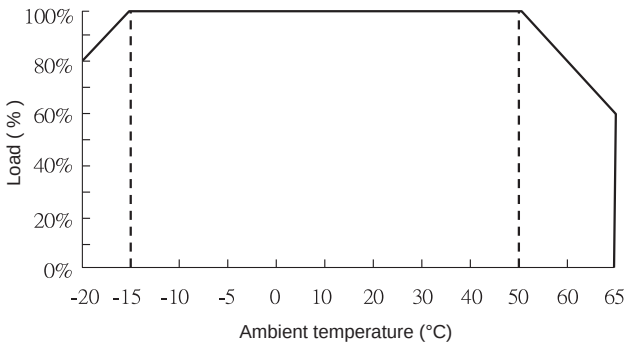
Unit: mm [inch]; unlabelled tolerance ±0.5 [±0.020].

characteristic curve

Input Voltage VS Output Load



Ambient Temperature VS Output Load



Remarks:
1.If you need to know 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.