Zhitao Group
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Industrial Power Supplies

Product Specifications

DXS-2000

- Product Category:2000W Single Output Digital Adjustable Power Supply
- Version No.:ZTAO3.0
- Release date: 1st May 2025

product overview

DXS-2000 is a dual-display adjustable constant voltage and constant current switching power supply, AC input range of 190~264VAC output voltage including 12V/36V/48V/60V/80V/110V/220V, etc., temperature-controlled fan heat dissipation, DC output voltage throughout the 0V adjustable DC output current throughout the 0A can be preset, output voltage and current can be customised to analogue signals 0-5V or 0-10V control, the product is suitable for motor speed control, lighting dimming, battery charging and so on. 0~10V control, the product is suitable for motor speed control, light dimming, battery charging and so on.

Model encoding

DXS - 2000 xx

- xx: Output voltage
- 2000: Rated power
- DXS: Series name

product characteristics

- AC input range 190~264VAC
- Type of protection: short circuit/overload/overvoltage
- fan cooling
- Power on LED indicator
- 100% full load burn-in test
- 3-year warranty

CE FC RoHS ISO ISO9001

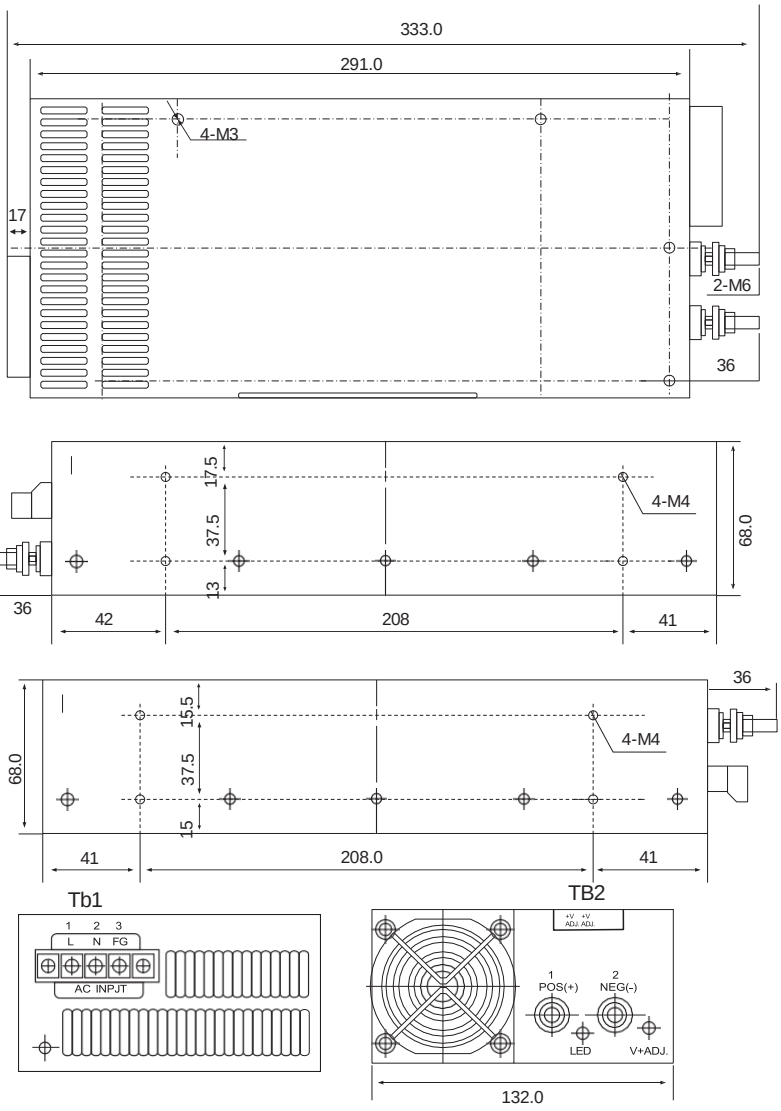
areas of application

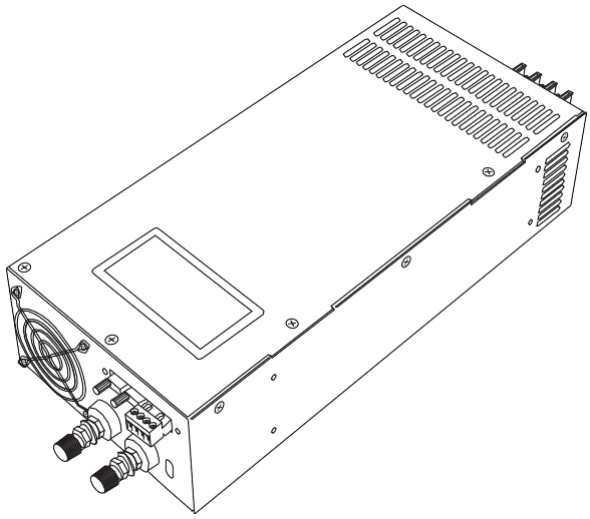
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

electrical specifications

Model		DXS-2000-12	DXS-2000-24	DXS-2000-36	DXS-2000-48	DXS-2000-60	DXS-2000-80	DXS-2000-110	DXS-2000-220
Output	DC output voltage	12V	24V	36V	48V	60V	80V	110V	220V
	Rated current	141A	83.3A	55.5A	41.6A	33.3A	25A	18A	9A
	Current range	0~141A	0~83.3A	0~55.5A	0~41.6A	0~33.3A	0~25A	0~18A	0~9A
	Rated power	1692W	1999.2W	1998W	1996.8W	1998W	2000W	1980W	1980W
	Ripple & Noise (Max)	200mVp-p	240mVp-p	320mVp-p	360mVp-p	500mVp-p	500mVp-p	850mVp-p	1000mVp-p
	voltage adjustment range	0~13.2V	0~26.4V	0~39.6V	0~52.8V	0~66V	0~88V	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	2000ms,70ms/230VAC (at full load)							
	Holding time	10mS/230VAC (at full load)							
Input	Input Voltage	190~264VAC 266~370VDC							
	Input frequency	50~60HZ							
	Efficiency	84%	88%	89%	89%	90%	90%	91%	91%
	Input current	16.5A/230VAC							
	Leakage current	＜ 3mA/240VAC							
Protection	overload protection	105~125% of rated power							
		Protection mode: constant current limitation, restart recovery after removal of abnormal conditions							
	Over temperature	Turn off the output voltage, reboot to restore							
Function	Fan On/Off Control (Typ.)	The fan's spinning straight up							
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							
Others	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25℃ /70%RH							
	Product dimensions	291*132*68mm（L*W*H） 333*132*68mm(including terminal block)							
	Packaging	4.0kg/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)





TB1 Terminal Pin No.Assignment

pin number	Assignment
1	AC/N(DC+)
2	AC/L(DC-)
3	FG⏚

TB1 Terminal Pin No.Assignment

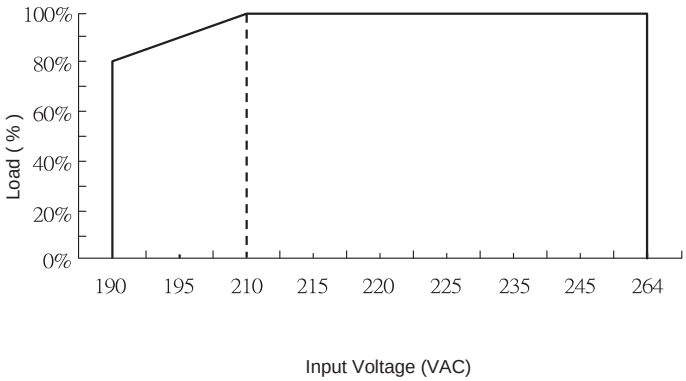
pin number	Assignment
1	DC OUTPUT +V
2	DC OUTPUT -V

Pinout	Function	
L	AC LINE	Screw:M4*10 Torque:22Kgf.cn(2..... 2N.m)
N	AC NETURAL	
⏚	EARTH	
NEG(-)	DC output -	Screw:M6*12 Torque:22Kgf.cn(2..... 2N.m)
POS(+)	DC output +	

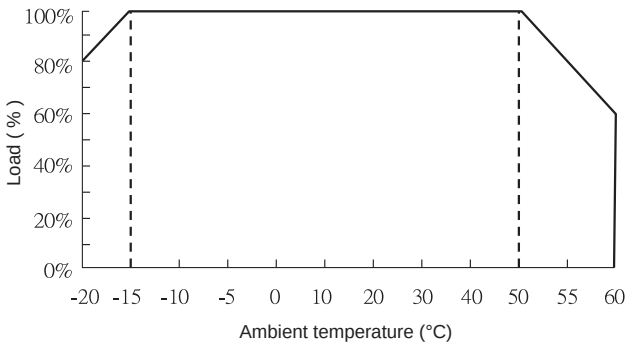
8-M3 Customer system
mounting holes
mounting screws:M3
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm
Remarks:
Unit: mm [inch]; unlabelled tolerances are ±0.5 [±0.020].

characteristic curve

Input Voltage VS Output Load



Ambient Temperature VS Output Load



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.