



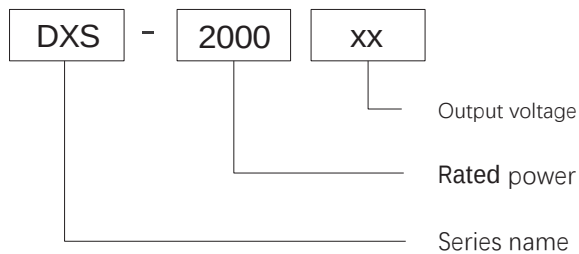
DXS-2000

- 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.

Model encoding



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

areas of application

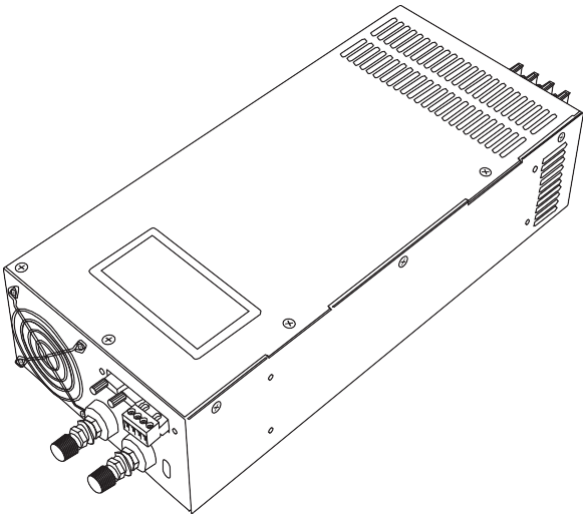
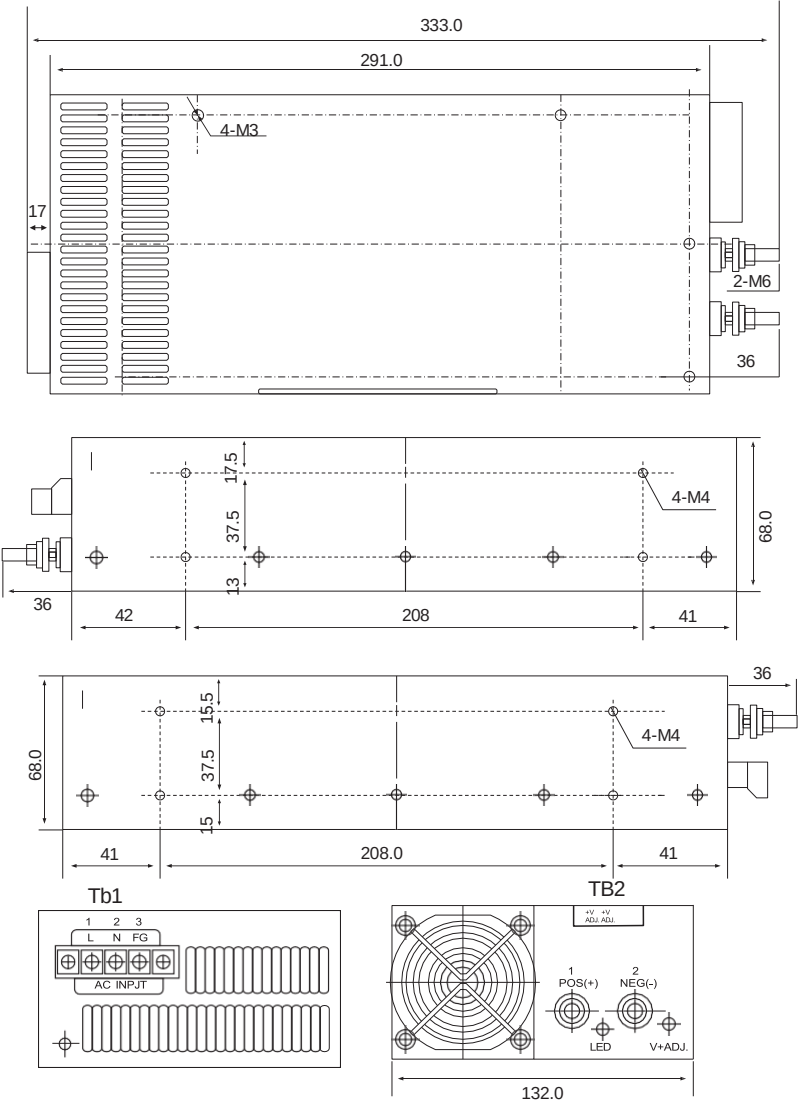
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)



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							
Prote ction	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							
Funct ion	Fan On/Off Control (Typ.)	The fan's spinning straight up							
Envir onme nt	Operating temperature	-20℃ ~+60℃							
	Operating humidity	20~90%RH No condensation							
	Storage temperature/humidity	-40~+80℃ 10~95%RH, no condensation							
Secu rity	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							
Other s	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℃ 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℃ / 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⏏

TB2 Terminal Pin No.Assignment

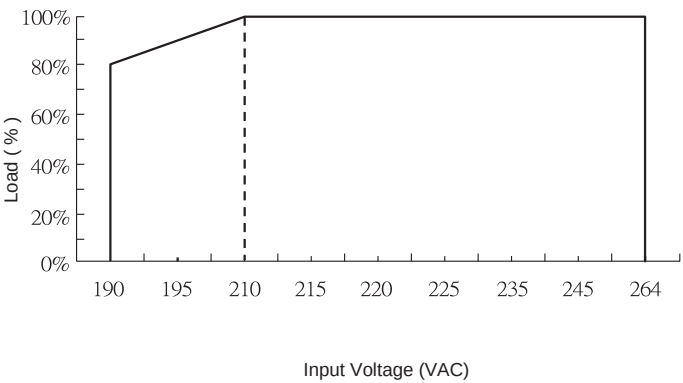
pin number	Assignment
1	DC OUTPUT +V
2	DC OUTPUT -V

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 +	

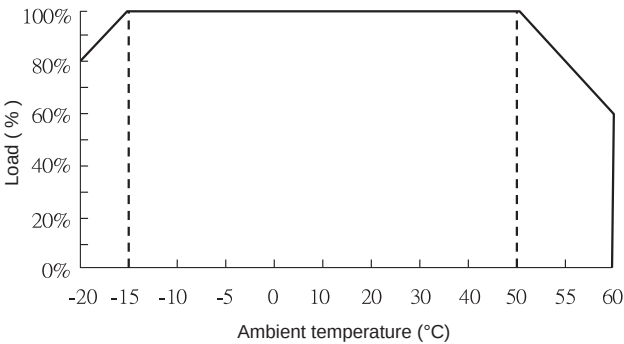
8-M3 Customer system
mounting holes
mounting screws:M3
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm
Remarks:
Unit: mm [inch]; unlabelled tolerances are ± 0.5 [± 0.020].

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.