



Zhitao Group
ZHITAO GROUP

Industrial Power Supplies

Product Specifications

DXS-1000

Product Category: 1000W Single Output Digital Adjustable Power Supply

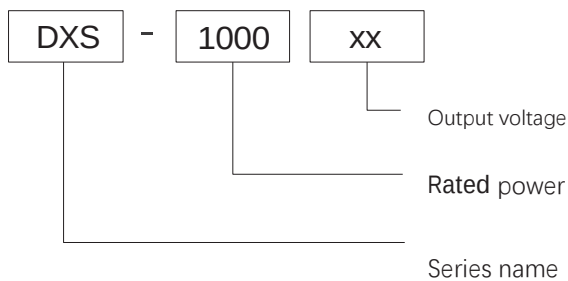
Version No.: ZTAO3.0

Release date: 1st May 2025

product overview

DXS-1000 is a dual-display adjustable constant voltage and constant current switching power supply. AC input range 185~264VAC, 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, light dimming, battery charging and so on.

Model encoding



product characteristics

- AC input range 185~264VAC
- Type of protection: short circuit/overload/overvoltage
- fan cooling
- Power on LED indicator
- 100% full load burn-in test
- 3-year warranty



RoHS



areas of application

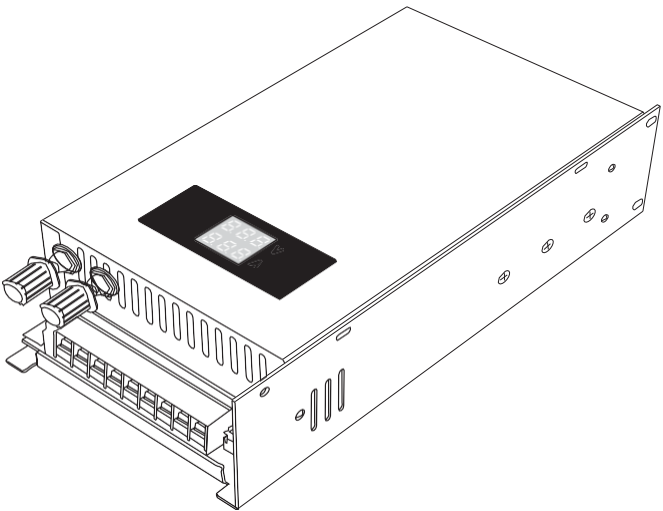
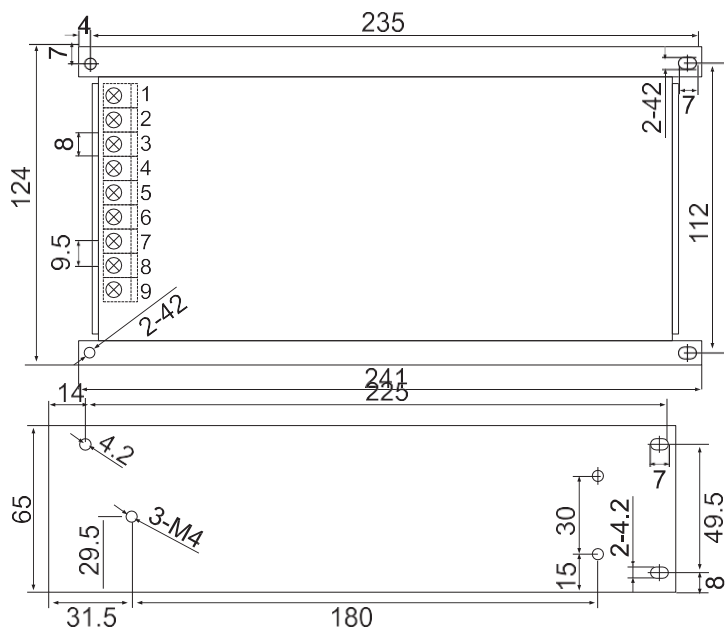
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

01-01

electrical specifications

Model		DXS-1000-12	DXS-1000-24	DXS-1000-36	DXS-1000-48	DXS-1000-60	DXS-1000-80	DXS-1000-110	DXS-1000-220
Output	DC output voltage	12V	24V	36V	48V	60V	80V	110V	220V
	Rated current	80A	40A	27.8A	21A	16.6A	12.5A	9A	2.2A
	Current range	0~80A	0~40A	0~27.8A	0~21A	0~16.6A	0~12.5A	0~9A	0~2.2A
	Rated power	960W	960W	1000.8W	1008W	996W	1000W	990W	990W
	Ripple & Noise (Max)	200mVp-p	240mVp-p	320mVp-p	360mVp-p	500mVp-p	500mVp-p	850mVp-p	1000mVp-p
	voltage adjustment range	0~15V	0~27V	0~38V	0~52V	0~79.2V	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	1200ms,60ms/230VAC (at full load)							
	Holding time	10mS/230VAC (at full load)							
Input	Input Voltage	185~264VAC 260~370VDC							
	Input frequency	50~60HZ							
	Efficiency	85%	88.5%	89%	90%	90%	91%	92%	92%
	Input current	8.5A/230VAC							
	Leakage current	< 2mA/240VAC							
Protection	overload protection	105~135% of rated power Protection mode: constant current limiting mode, restart to recover after abnormal conditions are removed							
	Over temperature	Turn off the output voltage, reboot to restore							
Function	Fan On/Off Control (Typ.)	TH3 ≥ 50 °C fan on, ≤ 40 °C fan off							
Environment	Operating temperature	-20°C ~+60°C							
	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°C /70%RH							
	Product dimensions	241*124*65mm (L*W*H)							
	Packaging	2.0kg/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)



Terminal Pin No.Assignment

pin No	Assignment
1	AC/N(DC+)
2	AC/L(DC-)
3	FG $\oplus$
4,5,6	DC OUTPUT -V
7,8,9	DC OUTPUT +V

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

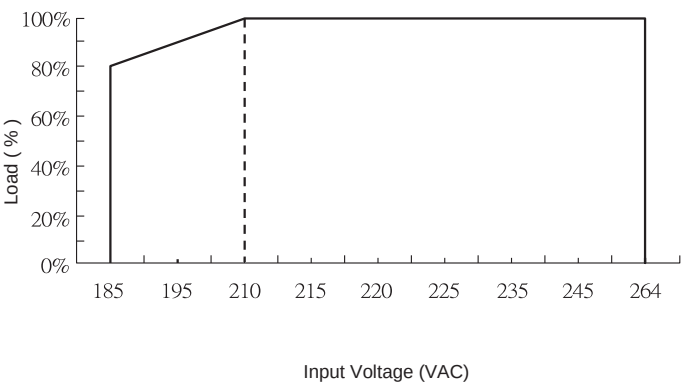
8-M4 Customer system
mounting holes
mounting screws: M4
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm

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

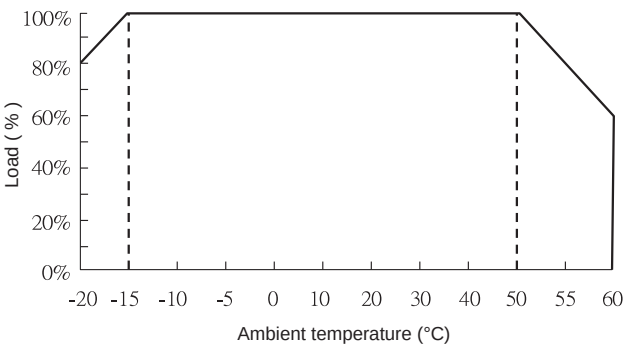


Characteristic Curve

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.