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. The output voltage and current can be customised with analogue signal 0~5V or 0~10V control. The products are suitable for motor speed control, light dimming, battery charging, etc.

Model encoding

DXS - 1000 xx

- xx: Output voltage
- 1000: Rated power
- DXS: Series name

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

CE FC RoHS ISO ISO9001

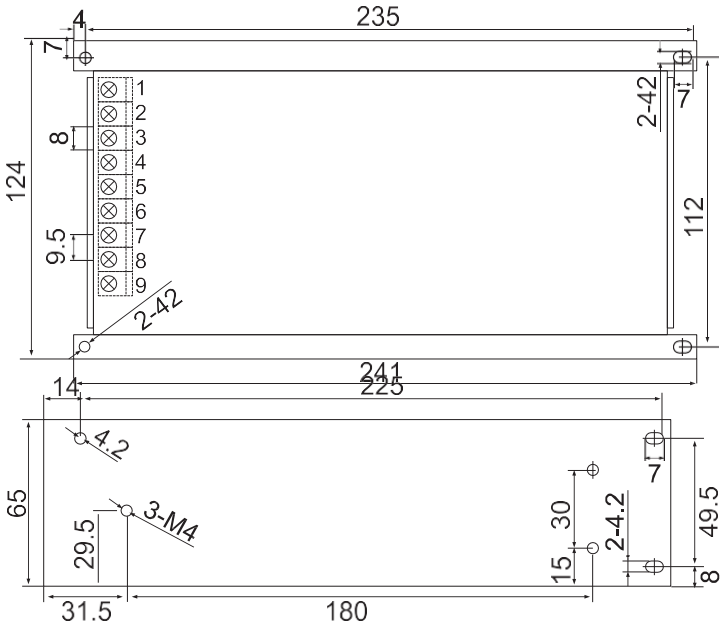
areas of application

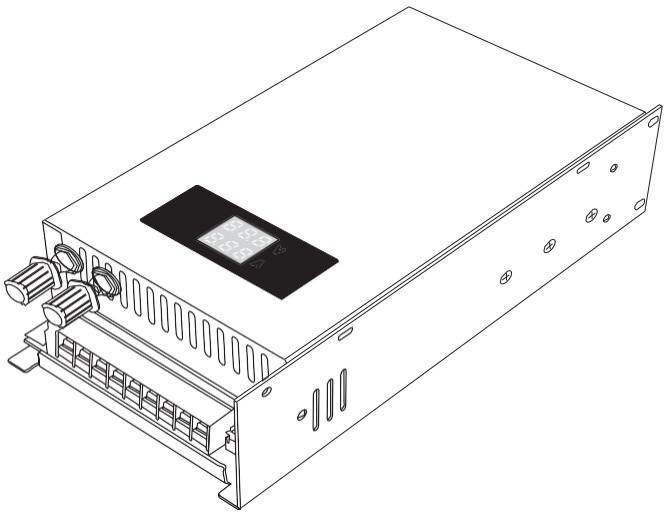
Industrial control, mechanical and electrical, electronic instruments, industrial automation, electronic equipment, semiconductor equipment, etc. (except information technology equipment)

electrical specifications

Model		DXS-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 ℃ 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							
Others	Insulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25℃ /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 ⏚
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	
⏚	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 +	

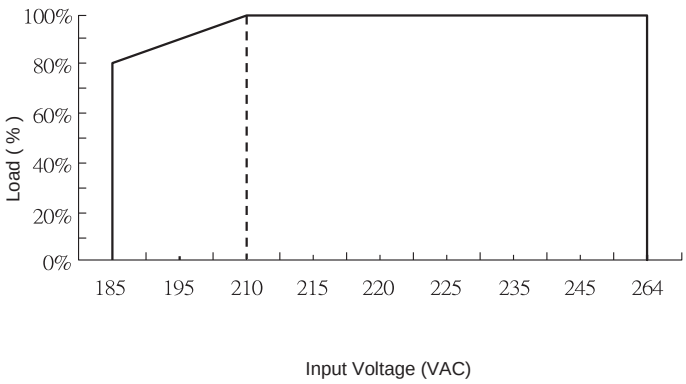
8-M4 Customer system
mounting holes
mounting screws: M4
Installation torque: 8Kgf.cn
(0.8N.m) screws into the housing
is not more than 3mm

Remarks:

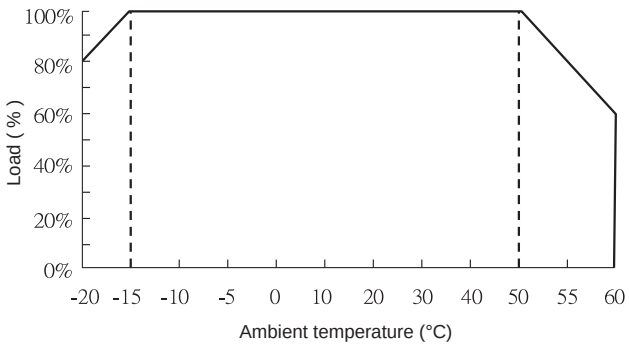
Unit: mm [inch]; unlabelled tolerance ±0.5 [±0.020].

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.