Product Specifications

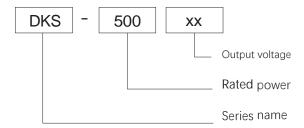
DKS-500

- Product Category: 500W Single Output Digital Adjustable Power Supply
- Version No.:ZTAO3.0
- Release date: May 1st, 2025

product overview

DKS-500 is a single display adjustable voltage regulator switching power supply, AC input range $100\sim120\,/\,200\sim240V$ (switch replacement) for global use, the output voltage including $12V\,/\,36V\,/\,48V\,/\,60\,V\,/\,80V\,/\,110V\,/\,220V$, etc., temperature-controlled fan heat dissipation, DC output voltage throughout the 0V adjustable output voltage can be customised analogue signal $0\sim5V$ or $0\sim10V$ control, the product is suitable for motor speed control, lighting dimming and so on. The output voltage can be customised to analogue signal $0\sim5V$ or $0\sim10V$ control, the product is suitable for motor speed control, light dimming and so on.

Model Encoding



product characteristics

- 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







areas of application

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

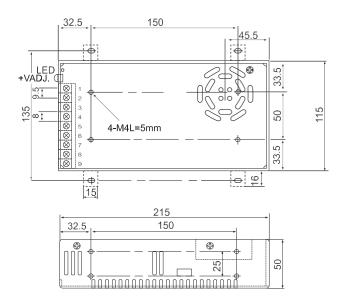


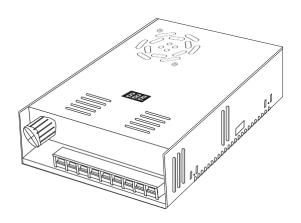
electrical specifications

Rate Curr Rate Ripp	output voltage ted current	12V	24V								
Curri Rate Ripp				36V	48V	60V	80V	110V	220V		
Rate		40A	20A	13.8A	10A	8.3A	6A	4.5A	2.2A		
Ripp	rrent range	0~40A	0~20A	0~13.8A	0~10A	0~8.3A	0~6A	0~4.5A	0~2.2A		
Outnut	ted power	480W	480W	496.8W	480W	498W	480W	495W	484W		
Output -	pple & Noise (Max)	200mVp-p	240mVp-p	320mVp-p	360mVp-p	500mVp-p	500mVp-p	850mVp-p	1000mVp-p		
· Out	tput Voltage justment	0~15V	0~27V	0~38V	0~52V	0~79.2V	0~79.2V	0~121V	0~230V		
volta	tage accuracy	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%		
Line	ear adjustment rate	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%		
Loa	ad Adjustment Ratio	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%		
star	rt-up & rise time	1800ms,100ms	/115VAC	1500ms,100m	ns/230VAC (at full I	oad)					
Inpu	ut Voltage	100~132/200~264V (switch replacement) 280~370VDC									
Inpu	ut frequency	50~60HZ									
Input Effic	iciency	85%	88%	89%	89%	90%	90%	91%	92%		
Inpi	out current	8.6A/115VAC 4.3A/230VAC									
Lea	akage current	< 3.0mA/240VAC									
prote sho	ort-circuit protected	Protection Mode: +VO drops to undervoltage point, and automatically recovers when abnormal conditions are removed									
	er temperature	Output voltage is switched off and restored after temperature drop or reboot									
Functi Cus	stomisable	0~5V/0~10V(Voltage)									
on ana	alogue signals										
Fan (Typ	n On/Off Control p.)	TH3 ≥ 50 °C fan on, ≤ 40 °C fan off									
	erating temperature	-20°C ~+60°C									
enviro nmen Ope	erating humidity	20~90%RH No condensation									
tal Stor	orage nperature/humidity	-40~+80°C 10~95%RH, no condensation									
Vibr	ration-resistant	10~500HZ, 5G 10 min/cycle, X, Y, Z 60 min each									
Secur pres	essure resistance	Input to Output :1.5KVAC; Input to Ground :1.5KVAC; Output to Ground :500VAC									
**	ulation impedance	Input to Output, Input to Ground, Output to Ground :100 Ohms/500VDC/25°C /70%RH									
Pro	oduct dimensions	215*115*50mm (L*W*H)									
Others Pac	ckaging	1.3kg/pcs									
		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									
	Remarks	5. Load Adjustment Ratio Measurement Method: From 0% to 100% of rated load 6. Stort up time in procured at order to and frequent quitabling as and off may increase the stort up time.									
		Start-up time is measured at cold start, fast and frequent switching on and off may increase the start-up time. When operating at altitudes higher than 2000 metres (6500ft): the operating environment needs to be reduced by 5°C / 1000 metres.									



Appearance and Installation Dimensions (mm)





Terminal Pin No. Assignment

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

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

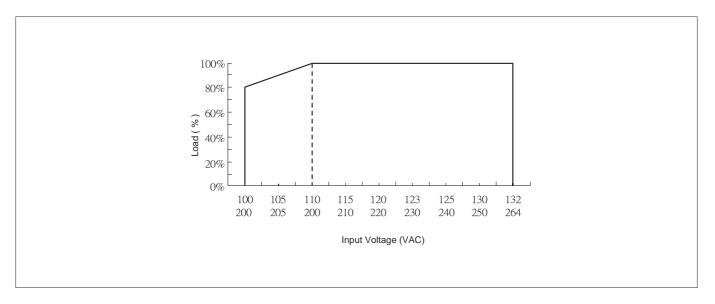
Remarks:

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

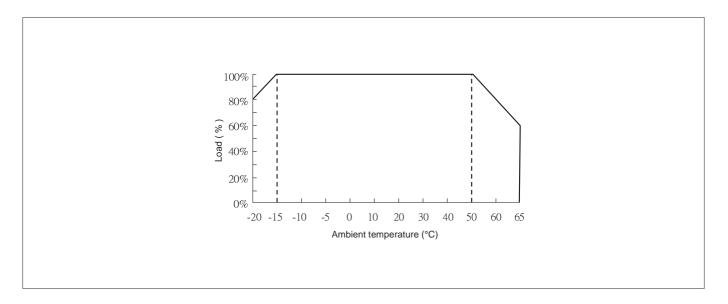


characteristic curve

Input Voltage VS Output Load



Ambient Temperature VS Output Load



Note:

- 1. If you need 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.