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Data Sheet

UDP3000S Series Programmable Linear DC Power Supply



Main Features

- Maximum power up to 373W
- •Four channel independent output: CH1/CH2: 0~30V/5A,CH3: 0~6V/3A,CH4: 5V/2A
- Multiple protection: OCP/OVP/OTP
- Excellent load regulation and line regulation
- •Ultra low output ripple and noise
- •Support one key serial and parallel output function
- •The 4.3-inch TFT display can display three channels and multiple parameters at the same time
- •List / delayer function to control voltage and current output as required
- •External trigger function to realize industrial automation control
- Provide USB host, USB device, LAN, RS232, digital IO and other interfaces
- •With waveform display function, real-time and dynamic display of output voltage / current / power waveform
- •Intelligent speed control of fan can effectively reduce fan noise during operation
- Support 10 groups of file storage and transfer out, and support USB flash disk reading and writing
- •High precision display of five-digit voltage / four-digit current, with resolutions of 10mV / 1mA and 1mV / 1mA
- •Keyboard lock function to prevent misoperation
- •Support SCPI remote command control

DC Power Supply Panel



①LCD display ②Function key ③Digital keyboard ④Rotary encoder
⑤Shift key ⑥Channel selection and output control ⑦Keyboard lock
⑧Preset key ⑨System settings ⑩Home key ⑪CH3 quick selection
⑫Operation menu ⑬Power switch ⑭CH4 output
⑮Output channel and indicator ⑯USB HOST ⑰LAN ⑱USB device
⑲Digital IO ⑳RS232 ㉒Fan ㉒Input source selection ㉓Protected GND
㉒AC socket

Product Introduction

UDP3000S series is a high-performance programmable linear DC power supply. It has a clear LCD user interface, excellent performance indicators, a variety of analysis functions and communication interfaces. It can meet the diversified test needs of users. It aims to provide cost-effective DC programmable power supply equipment for teaching, scientific research, industry and other fields.

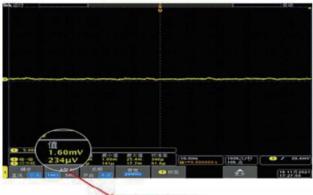
Human-computer interaction

UDP3000S series power supply has 4.3inch TFT LCD, which provides a human-computer interaction interface with rich functions and simple operation. The real-time information, setting value and limit value of three channels are displayed at the same time. The test interface is clear at a glance, saving the time of browsing and searching.



Excellent performance

UDP3000S series has excellent performance indicators. Provide cleaner and reliable DC power supply. It reduces unnecessary interference in use.



234µVrms

One key series parallel

All channels of this series of power supply are isolated from each other. One key series parallel connection of CH1 and CH2 can be realized through function keys. You do not need additional wiring. Just follow the interface diagram for wiring, which is fast and easy to operate. It provides you with a wider working range of power supply.



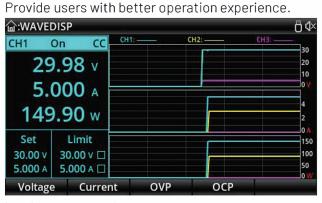
Remote control

This series of power supply provides a variety of remote connection interfaces of USB / LAN / RS232. It supports SCPI general protocol and is equipped with host computer software, which can set, view and carry out statistical work on PC.



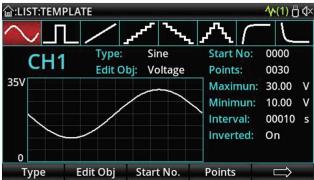
Waveform display

UDP3000S series power supply has waveform display function, which can intuitively display the change trend of voltage, current and power.



List/delayer function

UDP3000S series provides list and delayer functions. The power output curve can be edited freely to meet the test requirements. The delayer can be applied to the on-off test to investigate the reliability of the tested equipment.



Protection function

UDP3000S series has OVP / OCP / OTP function to provide protection for power supply. It is equipped with current and voltage limit functions to provide guarantee for the tested equipment. It is equipped with monitor function, which can freely set protection conditions and give alarms.

命:UTILITY:MONI	TOR			👫 (1) 🖥 🕸
CH1		Monito	or	
CONDITION:				
U <mark>K</mark> 30.01 V	Or	> 04.00	00 A Or	P > 005.00 W
STOP MODE:				
Output Off		\checkmark	B	110.000
Warning		\checkmark	Rur	ining
Beeper		$\mathbf{\nabla}$		
Condition M	lode			Stop

External trigger

This series of power supply provides digital IO port, which can be edited as external trigger mode to realize remote control power supply. Set as output mode, it can provide trigger information and status flag for external instruments.

命:UTILITY:TRIGGER					4	(1) 🛱 🕸 🕇
	Trigger					
DO IN	D1	IN	D2	1N	D3	-IN
Ctrled Channel: Trig Type: Sensitivity: Response:	CH1 Fall E Mide Outp	0	gle	SER	PARA	
Data Line In	'Out		- 1		En	able

Preset function

UDP3000S series power supply can save 10 groups of list and delayer files respectively. You can save 5 sets of common configurations through presets. It provides convenience for quick access to common settings.

:PRESE	г							۵۹	
Preset1	Prese	t2	Preset3		Preset4		Pres	Preset5	
	Volt(V)	Cu	rr(A)		OVP(V)	OCP(A)	
CH1	12.00	1	.000		13.00		2.001		
CH2	24.00	2	.000	i	25.00		2.500		
СНЗ	5.00	1	.000		5.00		1.000		
ser.	36.00	5	.000	1	36.00		5.000		
PARA	30.00	06	.000		30.00		06.000		
Edit					-		Loa	ıd	

Technical Specification

Model		UDP3305S-E	UDP3305S		
hannel	Channel	4	4		
Dutput Rating	Voltage	CH1&CH2:0~30V	CH1&CH2:0~30V		
		CH3: 0~6V	CH3: 0~6V		
		CH4: 5V (USB Output)	CH4: 5V (USB Output)		
		CH1&CH2: 0~5A	CH1&CH2: 0~5A		
	Current	CH3: 0~3A	CH3: 0~3A		
		CH4: 2A (USB Output)	CH4: 2A (USB Output)		
	Power	328W	328W		
	Regulation	Line Regulation: ≤0.01%+2mV	Line Regulation: ≤0.01%+2mV		
	Regulation	Load Regulation: ≤0.01%+2mV	Load Regulation: ≤0.01%+2mV		
V mode	Regulation	<350µVrms/2mVpp(5Hz~1MHz)	<350µVrms/2mVpp(5Hz~1MHz)		
	Reaction time	≤50µs(50% load variation, minimum load 0.5A)	≤50µs(50% load variation, minimum load 0.5A)		
	Command processing time	<10ms	<10ms		
		Line Regulation: ≤0.01%+250µA	Line Regulation: ≤0.01%+250µA		
C mode	Regulation	Line Regulation: ≤0.01%+250µA	Load Regulation: ≤0.01%+250µA		
	Ripple current	≤2mArms	≤2mArms		
		Line Regulation: ≤0.01%+2mV	Line Regulation: ≤0.01%+2mV		
	parallel connection	Load Regulation: ≤0.01%+2mV	Load Regulation: ≤0.01%+2mV		
		Line Regulation: ≤0.01%+3mV	Line Regulation: <0.01%+3mV		
acking mode	series connection	Load Regulation: ≤300mV	Load Regulation: ≤300mV		
		≤0.5%+10mV (10~30V No load)	≤0.5%+10mV (10~30V No load)		
	Tracking error	≤0.5%+30mV (0~9.99V No load)	≤0.5%+30mV (0~9.99V No load)		
	Tracking error	Access load ≤ 300mV	Access load < 300mV		
	Display	the second s	Voltage full scale, 5-digit display: 4.3inch LCD		
		Voltage full scale, 4-digit display; 4.3inch LCD			
		Current full scale, 4-digit display; 4.3 inch LCD Voltage: 10mV	Current full scale, 4-digit display; 4.3 inch LCD Voltage: 1mV		
	Programming resolution	Current: ImA	Current: 1mA		
	Readback resolution	Voltage: 10mV	Voltage: ImV		
measure		Current: ImA	Current: ImA		
	Programming accuracy (25±5℃)	Voltage: ± (0.3%+20mV)	Voltage: ± (0.03%+10mV)		
		Current: ± (0.2%+5mA)	Current: ± (0.2%+5mA)		
	Readback accuracy (25±5°C)				
		Voltage: ± (0.1%+20mV)	Voltage: ± (0.03%+10mV)		
		Current: ± (0.15%+5mA)	Current: ± (0.15%+5mA)		
/oltage	CH1	Rise: full load < 50ms;No load < 30ms	Rise: full load < 50ms; No load < 30ms		
programmed speed		Fall: full load < 45ms; No load < 400ms	Fall: full load < 45ms; No load < 400ms		
1% of the	CH2	Rise: fullload < 50ms; No load < 30ms	Rise: full load < 50ms; No load < 30ms		
total variation range)		Fall: full load < 45ms; No load < 400ms	Fall: full load < 45ms; No load < 400ms		
	СНЗ	Rise: full load < 15ms; No load <13ms	Rise: full load < 15ms; No load <13ms		
		Fall: full load < 22ms; No load < 100ms	Fall: full load < 22ms; No load < 100ms		
Temperature coefficient	СН1	Voltage: 0.01%+5mV	Voltage: 0.01%+5mV		
		Current: 0.01%+2mA	Current: 0.01%+2mA		
per C	CH2	Voltage: 0.01%+5mV	Voltage: 0.01%+5mV		
(output percentage		Current: 0.01%+2mA	Current: 0.01%+2mA		
+ offset)	СНЗ	Voltage: 0.01%+2mV	Voltage: 0.01%+2mV		
- unself		Current: 0.01%+2mA	Current: 0.01%+2mA		

Channel4	Output voltage	5V ±0.25V	5V ±0.25V		
(USB output)	Output current	2A	2A		
	Voltage	A C 100 V/120 V/220 V/230 V±10%	AC 100V/120V/220V/230V±10%		
	Frequency	50/60Hz	50/60Hz		
Input	Power	MAX600W	MAX 600W		
		AC220V : T4AL250V	AC220V : T4AL250V		
	Fuse	AC110V : T8AL250V	ACIIOV : T8AL250V		
Environment	Operatingtemperature	0C~40C	0C-40C		
	Operatinghumidity	20%~80% (non-condensing)	20%~80% (non-condensing)		
	Storage temperature	-10C-60C	-10 C~60 C		
	Altitude	≤2000 m	≤2000 m		
	Pollution degree	2	2		
Size and weight	Size	355mm*240mm*168mm	355mm*240mm*168mm		
	Weight	10.2kG	10.2kG		



*The UDP3000S series have been cerified by CE, UKCA, cTUVus

Aaccessories				
Standar# accessories	Power cord that meets the standards of the country of destination			
	USB data cable			
Optional accessories	Alligator clip test line			

Warranty

Three-years warranty, excluding probes and accessories.

Please visit https://instruments.uni-trend.com/list_190/65.html to learn more information.

To protect your investment, please purchase from UNI-T official authorized global distriburots.

그는 그는 것이 같아요. 집에 대해 집에 가지 않는 것이 같아.