



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 ㉑RS232 ㉑Fan ㉑Input source selection ㉑Protected GND ㉑AC 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.

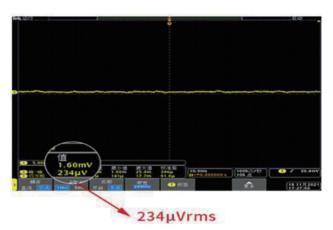
Human-computer interaction

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.



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.



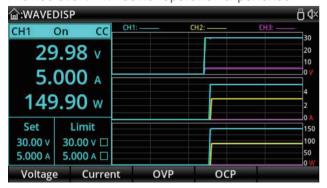
Remote control

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.



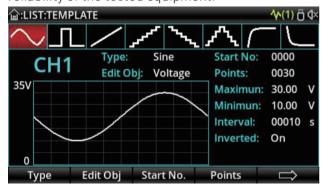
Waveform display

UDP3000S series power supply has waveform display function, which can intuitively display the change trend of voltage, current and power. Provide users with better operation experience.



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.



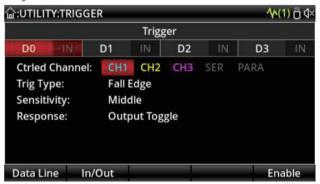
Protection function

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.



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.



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.



Technical Specification

Model		UDP3305S-E	UDP3305S
Channel	Channel	4	4
		CH1&CH2: 0~32V	CH1&CH2: 0~32V
	Voltage	CH3: 0~6V	CH3: 0~6V
utaut Datina		CH4: 5V (USB Output)	CH4: 5V (USB Output)
Output Rating	Current	CH1&CH2: 0~5A	CH1&CH2: 0~5A
		CH3: 0~3A	CH3: 0~3A
		CH4: 2A (USB Output)	CH4: 2A (USB Output)
	Power	348W	348W
CV mode	Regulation	Line Regulation: ≤0.01%+2mV	Line Regulation: ≤0.01%+2mV
		Load Regulation: ≤0.01%+2mV	Load Regulation: ≤0.01%+2mV
	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	<100ms	<100ms
		Line Regulation: ≤0.01%+250µA	Line Regulation: ≤0.01%+250µA
C mode	Regulation	Line Regulation: ≤0.01%+250µA	Load Regulation: ≤0.01%+250µA
Jo mode	Ripple current	≤2mArms	≤2mArms
	parallel connection	Line Regulation: ≤0.01%+2mV	Line Regulation: ≤0.01%+2mV
		Load Regulation: ≤0.01%+2mV	Load Regulation: ≤0.01%+2mV
		Line Regulation: ≤0.01%+3mV	Line Regulation: ≤0.01%+3mV
racking mode	series connection	Load Regulation: ≤300mV	Load Regulation: ≤3.00mV
	Tracking error	≤0.5%+10mV (10~30V No load)	≤0.5%+10mV (10~30V No load)
		≤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		Voltage full scale, 5-digit display; 4.3inch LCD
		Voltage full scale, 4-digit display; 4.3inch LCD	7 7 7
		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°C)	Voltage: ± (0.3%+20mV)	
		Current: ± (0.2%+5mA)	Voltage: ± (0.03%+10mV) Current: ± (0.2%+5mA)
			NI IV
	Readback accuracy (25±5°C)	Voltage: ± (0.1%+20mV)	Voltage: ± (0.03%+10mV)
		Current: ± (0.15%+5mA)	Current: ± (0.15%+5mA)
Voltage	CH1	Rise: full load < 50ms; No load < 30ms	Rise: full load < 50ms; No load < 30ms
programmed		Fall: full load < 45ms; No load < 400ms	Fall: fullload < 45ms; No load < 400ms
speed (1% of the	CH2	Rise: full load < 50ms; No load < 30ms	Rise: full load < 50ms; No load < 30ms
totalvariation		Fall: full load < 45ms; No load < 400ms	Fall: fullload < 45ms; No load < 400ms
range)	CH3	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	CH1	Voltage: 0.01%+5mV	Voltage: 0.01%+5mV
		Current: 0.01%+2mA	Current: 0.01%+2mA
per C		Voltage: 0.01%+5mV	Voltage: 0.01%+5mV
(output percentage + offset)		Current: 0.01%+2mA	Current: 0.01%+2mA
	CH3	Voltage: 0.01%+2mV	Voltage: 0.01%+2mV
		Current: 0.01%+2mA	Current: 0.01%+2mA

Channel 4 (USB output)	Output voltage	5V ±0.25V	5V ±0.25V
	Output current	2A	2A
Input	Voltage	AC 100 V/120 V/220 V/230 V±10%	AC 100V/120V/220V/230V±10%
	Frequency	50/60Hz	50/60Hz
	Power	MAX 600W	MAX 600W
	Fuse	AC220V: T4AL250V	AC220V: T4AL250V
		AC110V: T8AL250V	AC110V: T8AL250V
Environment	Operating temperature	0 C~40 C	0°C~40°C
	Operating humidity	20%~80% (non-condensing)	20%~80% (non-condensing)
	Storage temperature	-10°C~60°C	-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				
Standard accessories	Power cord that meets the standards of the country of destination			
Standard accessories	USB data cable			
Optional accessories	Alligator clip test line			

Warranty

Three-years warranty, excluding probes and accessories.

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