# SPD3000X Series Programmable DC Power Supply





# SPD3303X SPD3303X-E

## **Product Overview**

SPD3000X Series Linear Programmable DC Power Supply has a 4.3 inches TFT\_LCD display, Supports Programmability and Real Time Wave Display, bringing a new experience to users. It has three isolated outputs: two adjustable channels and one selectable channel from 2.5v, 3.3V, and 5V. It also has output short and overload protect function, and can be used in production and development.

### **Main Features**

- 3 independent controlled and isolated output, 32V/3.2A×2, 2.5V/3.3V/5V/3.2A×1, total 220W
- 5 digits Voltage, 4digits Current Display, Minimum Resolution: 1mV/1mA
- Supports panel timing output functions
- 4.3 inch true color TFT- LCD 480x272 pixel display
- 4 3 kinds of output modes: independent, series, parallel
- 100V/120V/220V/230V compatible design to meet the needs of different power grids.
- Intelligent temperature-controlled fan , effectively reducing noise
- Clear graphical interface, with the waveform display function
- Internal 5 groups of system parameter save/recall, supports data storage space expansion
- Provides PC software: Easypower , supports SCPI , Labview driver







## Characteristics

#### High-resolution and high-precision output

The highest resolution of 1mV/1mA, provides excellent setting and read back accuracy. This ensures accurate output even with very with small changes in voltage or current. This is impossible for a low resolution power supply.

#### Series/parallel/independent mode function

Series and parallel function allows two channels combined into one output with more power output capability, extending the application range. Each of 3 channels power can be turned on or off independently and also can be turned all on or all off.

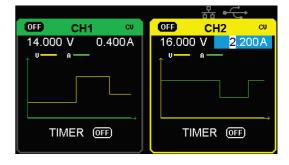




#### Panel displays the timing output

Through the panel operation, 5 groups of timing settings and output control can be displayed, which provides users a simple power programming function. Also a connection can be made with Siglent's EasyPower PC software providing a full range of communication and control requirements.

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OFF	CH1	(	cu Ì	OFF	C	H2	CU
123	4	5	NO	Volt(V)	Curr(A)	Set(S)	Left(S)
		V	1	5.000	0.400	100	100
╻╻┎╴			2	10.000	0.800	200	200
	_		3	15.000	1.200	300	300
<u> </u>		A	4	20.000	1.600	400	400
	4	5	5	25.000	2.000	5 <mark>0</mark> 0	500



Panel timing output

Real time wave display

#### Save/Recall setting parameters

SPD3000X series programmable power supply can save or recall 5 groups of setting parameter in internal storage, also supports external storage expansion. You can easily obtain the settings you needed.



Internal Storage



PC Timer

## Specification

Model		SPD3303X-E	SPD3303X			
Channel		CH1 output voltage: 0 ~ 32V, output current: 0 ~ 3.2A				
		CH2 output voltage: 0 ~ 32V, output current: 0 ~ 3.2A				
		CH3 output voltage: 2.5/3.3/5.0V, output current : 3.2A				
Display		4.3 inch true color TFT-LCD 4 digits voltage 3 digits current	4.3 inch true color TFT-LCD 5 digits voltage 4 digits current			
Resolution		10mV/10mA	1mV/1mA			
Program Accuracy		Voltage ± (0.5% of reading+2digits)	Voltage± ( 0.03% of reading+10mV )			
		Current ± (0.5% of reading+2digits)	Current± (0.3% of reading+10mA)			
Readback Accuracy		Voltage ± (0.5% of reading+2digits)	Voltage± ( 0.03% of reading+10mV )			
		Current ± (0.5% of reading+2digits)	Current± (0.3% of reading+10mA)			
Constant Voltage Mode	Line Regulation	≤0.01%+3mV				
	Load Regulation	≤0.01%+3mV				
	Ripple&Noise	≤1mVrms(5Hz ~ 1MHz)				
	Recovery Time	< 50µs ( 50% load change, minimum load 0.5A )				
Constant Current	Line Regulation	≤0.2%+3mA				
Mode	Load Regulation	≤0.2%+3mA				
	Ripple&Noise	≤3mArms				
Parallel Mode	Line Regulation	≤0.01%+3mV				
	Load Regulation	≤0.01%+3mV				
Series Mode	Line Regulation	≤0.01%+5mV				
	Load Regulation	≤300mV				
CH3	Output Voltage	(2.5/3.3/5V) ±8%				
	Line Regulation	≤0.01%+3mV				
	Load Regulation	≤0.01%+3mV				
	Ripple&Noise	≤1mVrms(5Hz ~ 1MHz)				
Locking Key		Yes				
Memory Save/Recall		5 Sets				
Max Output Power		220W				
Power Source		AC 100V/120V/220V/230V ±10% 50/60Hz				
Standard Configuration Interface		USB Device、LAN				
Insulation		Case to Terminal $\geq$ 20M $\Omega$ (DC 500V) Case to AC line $\geq$ 30M $\Omega$ (DC 500V)				
Operating Environment		Outdoor Usage: Elevation: ≤2000m Environment Temperature 0~40°C Relative Humidity≤80% Installation Level: II Pollution Level: 2				
Storage Environment		Environment Temperature: -10~70℃ Relative Humidity≤70%				
Dimension		225(W)×143(H)×278(D) mm				
Weight		≈ 8.0kg				

# Ordering information

Product description	Product No				
3 channels independent output, min resolution 10mV/10mA, USB Device & LAN, 4.3 inch LCD display	SPD3303X-E				
3 channels independent output, min resolution 1mV/1mA, USB Device & LAN, 4.3 inch LCD display	SPD3303X				
Standard Accessories					
USB Cable -1					
Quick Start -1					
Product Certificate -1					
Calibration Certificate -1					
Power cord -1					
Resources CD(product document and software )-1					
Output Test Cord -2 Sets					