

# SPD3000C Series Programmable DC Power Supply



Data Sheet

EN\_02A



CALTRON PTE LTD

SIGLENT TECHNOLOGIES CO.,LTD

# SPD3000C

## Main Features

- 3 independent controlled and isolated output: 32V / 3.2A×2, 2.5V / 3.3V / 5V / 3.2A×1, total power 220W.
- Resolution: 10 mV/10 mA
- Supports panel timing output functions.
- LED display; 32 V full scale, 4 digits; 3.2 A full scale, 3 digits
- 100V / 120V / 220V / 230V compatible design, to meet the needs of different power grids.
- Intelligent fan for temperature control, effectively reduces noise.
- Five groups of internal system parameter storage. Supports data storage space expansion.
- Supports SCPI commands & USB device interface. Includes PC software.

## Design Features

- High-resolution and high-precision output  
High precision adjustability of as low as 10 mV & 10 mA steps. User's DUT can be monitored and analyzed under small changes in voltage and current.

## Series/ parallel/ independent mode functions

Series and parallel functions allows two channels to be easily combined into one output with more power output ability, doubling the supplied voltage or current.

Each of the 3 channel's outputs can be turned on/off independently or all 3 turned all-on/all-off simultaneously.



Parallel connection



Series connection

## Application field

- Debugging in R&D
- Production / Automatic Test
- Quality Control and Test
- Teaching / Education

## Specification

Model		SPD3303C
Output		CH1 Output Voltage:0~32 V CH1 Output Current:0~3.2 A
		CH2 Output Voltage:0~32 V CH2 Output Current:0~3.2A
		CH3 Output Voltage:2.5 V/3.3 V/5 V CH3 Output Current:3.2 A
Display		32 V full scale 4 digits 3.2 A full scale 3 digits LED display
Resolution		10 mV/10 mA
Program Accuracy		V: $\pm (0.5\% \text{ of reading} + 3 \text{ digits})$
		I: $\pm (0.5\% \text{ of reading} + 3 \text{ digits})$
Readback Accuracy		V: $\pm (0.5\% \text{ of reading} + 3 \text{ digits})$
		I: $\pm (0.5\% \text{ of reading} + 3 \text{ digits})$
Constant Voltage Mode	Line Regulation	$\leq 0.01\% + 3 \text{ mV}$
	Load Regulation	$\leq 0.01\% + 3 \text{ mV}$
	Ripple & noise	$\leq 1 \text{ mVrms (5 Hz} \sim 1 \text{ MHz)}$
	Recovery time	$< 50 \text{ uS (50\% load change, Minimum load 0.5 A)}$
Constant Current Mode	Line Regulation	$\leq 0.2\% + 3 \text{ mA}$
	Load Regulation	$\leq 0.2\% + 3 \text{ mA}$
	Ripple & noise	$\leq 3 \text{ mArms}$
Parallel Mode	Line Regulation	$\leq 0.01\% + 3 \text{ mV}$
	Load Regulation	$\leq 0.01\% + 3 \text{ mV}$
Series Mode <sup>[1]</sup>	Line Regulation	$\leq 0.01\% + 5 \text{ mV}$
	Load Regulation	$\leq 300 \text{ mV}$
CH3	Output	$(2.5 \text{ V}/3.3 \text{ V}/5 \text{ V}) \pm 8\%$
	Line Regulation	$\leq 0.01\% + 3 \text{ mV}$
	Load Regulation	$\leq 0.01\% + 3 \text{ mV}$
	Load Regulation	$\leq 1 \text{ mVrms (5 Hz} \sim 1 \text{ MHz)}$
Locking key		Yes
Memory Save/ Recall		5 sets
Max Output Power		220 W
Power Source		AC 100 V/120 V/220 V/230 V $\pm 10\%$ , 50/60 Hz

Interface	USB Device
Insulation	Case to Terminal: $\geq 20 \text{ M}\Omega$ (DC 500V) Case to AC line: $\geq 30 \text{ M}\Omega$ (DC 500V)
Operating environment	Outdoor usage: Elevation: $\leq 2000 \text{ m}$ Environment Temp: $0 \sim 40 \text{ }^\circ\text{C}$ Relative Humidity: $\leq 80\%$ Installation Level: II Pollution Level: 2
Storage Environment	Environment Temp: $-10 \sim 70 \text{ }^\circ\text{C}$ Relative Humidity: $\leq 70\%$
Size	275×225×136 mm
Weight	7.5 Kg

Remark:

[1] The SPD can output 60V voltage maximum in the Series mode.

## Ordering information

Product information	Product No
3 channels independent output, min resolution 10mV/10mA, USB Device, LED display	SPD3303C
Standard Accessories	
USB Cable -1	
Quick Start -1	
Power cord -1	
Certificate of Calibration -1	

## About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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