

# DataSheet

## SPD3000 Series Programmable DC Power Supply



### Main Features

- ◆ 3 Independent Controlled and Isolated Output: 30V/3A × 2, 2.5V,3.3V,5V/3A × 1, Total Power 195W
- ◆ Resolution: SPD3303C: 10mV, 10mA
- ◆ Support panel timing output functions
- ◆ LED display
- ◆ 3 kinds of output mode: Independent , series, parallel.
- ◆ 100V/120/220/230V compatible design, to meet the needs of different power grids.
- ◆ Intelligent fan of temperature control, effectively reduce the noise.
- ◆ Clear graphical interface, with the waveform display function
- ◆ Internal 5 groups of system parameter save/obtained, and support data storage space expansion
- ◆ Support SCPI, PC SoftWare &USB Device.

### High-resolution and high-precision output

The highest resolution of 10mV/10mA , Excellent setting and readback accuracy. Ensure accurate pure output .You can easily simulate the device accurate behavior under testing with small change 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 ability , This extends the application range. Each of 3 channels power can be on/off independently and also can be all-on/all -off .

### Panel realize the timing output

Through the panel operation, 5 groups of timing Settings and output control can be realized, which provides users a simple power programming function. At the same time , cooperating with the PC software, it meets the most demand of communicating and controlling.

### Intuitive interface

Large and high resolution LCD display,concise human machine interface,make the machine easily used

### Application Field

- ◆ Debugging in R&D
- ◆ Production Automatic Test
- ◆ Quality Control and Test
- ◆ Teaching Experiment



# ● Specification

Model		SPD3303C		
Channel		CH1	CH2	CH3
Output Voltage		0~30V		2.5/3.3/5.0V
Output Current		0~3A		0~3A
Display		30V full scale 4digits LED display		
		3A full scale 3digits LED display		
Resolution		10mV/10mA		
Program Accuracy		V: ± (0.5% of reading+1digits)		
		I: ± (0.5% of reading+1digits)		
Readback Accuracy		V: ± (0.5% of reading+1 digits)		
		I: ±(0.5% of reading +1digits)		
Constant Voltage Mode	Line Regulation	≤0.01%+3mV		
	Load Regulation	≤0.01%+3mV		
	Ripple & Noise	≤1mVrms (5Hz~1MHz)		
	Recovery Time	< 100μs (50% load change, minimum load 0.5A)		
Constant Current Mode	Line Regulation	≤0.2%+3mA		
	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		195W		
Power Source		AC 100V/120V/220V/230V ±10% 50/60Hz		
Interface		USB Device		
Insulation		Case to Terminal: Mohm or above (DC 500V) Case to AC line: 30Mohm or above (DC 500V)		
Operating Environmen		Outdoor Usage: Elevation: ≤2000m Environment Temp: 0~40℃ Relative Humidity: ≤80% Installation Level: II Pollution level: 2		
Storage Environment		Environment Temp: -10~70℃ Relative Humidity≤70%		
Dimension		275X225X136MM		
Weight		8kg		

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