



# 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: SPD3303S: 1mV/1mA  
SPD3303D: 10mV/10mA
- ▶ Support panel timing output functions.
- ▶ 4.3 inch truecolor TFT-LCD 480 x 272 pixels 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 1mV/1mA, 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		SPD3303D			SPD3303S		
Channel		CH1	CH2	CH3	CH1	CH2	CH3
Output Voltage		0 ~ 30V		2.5/3.3/5.0V	0 ~ 30V		2.5/3.3/5.0V
Output Current		0 ~ 3A		0 ~ 3A	0 ~ 3A		0 ~ 3A
Display		30V full scale 4digits			0V full scale 5digits		
		LCD display			LCD display		
		3A full scale 3digits			3A full scale 4digits		
Resolution		10mV/10mA			1mV/1mA		
Program Accuracy		V: ± ( 0.5% of reading+2digits )			V: ± ( 0.03% of reading+10mV )		
		I: ± ( 0.5% of reading+2digits )			I: ± ( 0.3% of reading+10mA )		
Readback Accuracy		V: ± ( 0.5% of reading+2digits )			V: ± ( 0.03% of reading+10mV )		
		I: ± ( 0.5% of reading+2digits )			I: ± ( 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	< 100μs ( 50% load change, minimum load 0.5A )					
Constant Current Mode	Line Regulation	≤0.2%+3mA					
	Load Regulation	≤0.2%+3mA					
	Ripple&Noise	≤3mA <sub>rms</sub>					
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 Environment		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					