

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 pixel 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 LCD display			30V full scale 5digits LCD display		
		3A full scale 3digits LCD display			3A full scale 4digits LCD display		
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	≤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					