

# DataSheet

## ADP303D 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: ADP303S : 1mV, 1mA  
ADP303D : 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		ADP303D			ADP303S		
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					