



# SP Series

Single Channel Digital  
DC Power Supply

3.7"

LCD Display



Supports SCPI



Current/Voltage  
Change Record Curve

High  
Resolution  
at 10mV/1mA

- Small body for easy carry
- 150W/300W maximum output power
- Constant power design, providing a combination of multiple ranges of voltage and current settings
- Low ripple/noise
- Over voltage/over current protection
- Intelligent temperature control fan cooling
- Support RS232 digital communication

# FULL POWER



Over voltage

Over current

Over temperature

Short circuit

**Comprehensive protection**

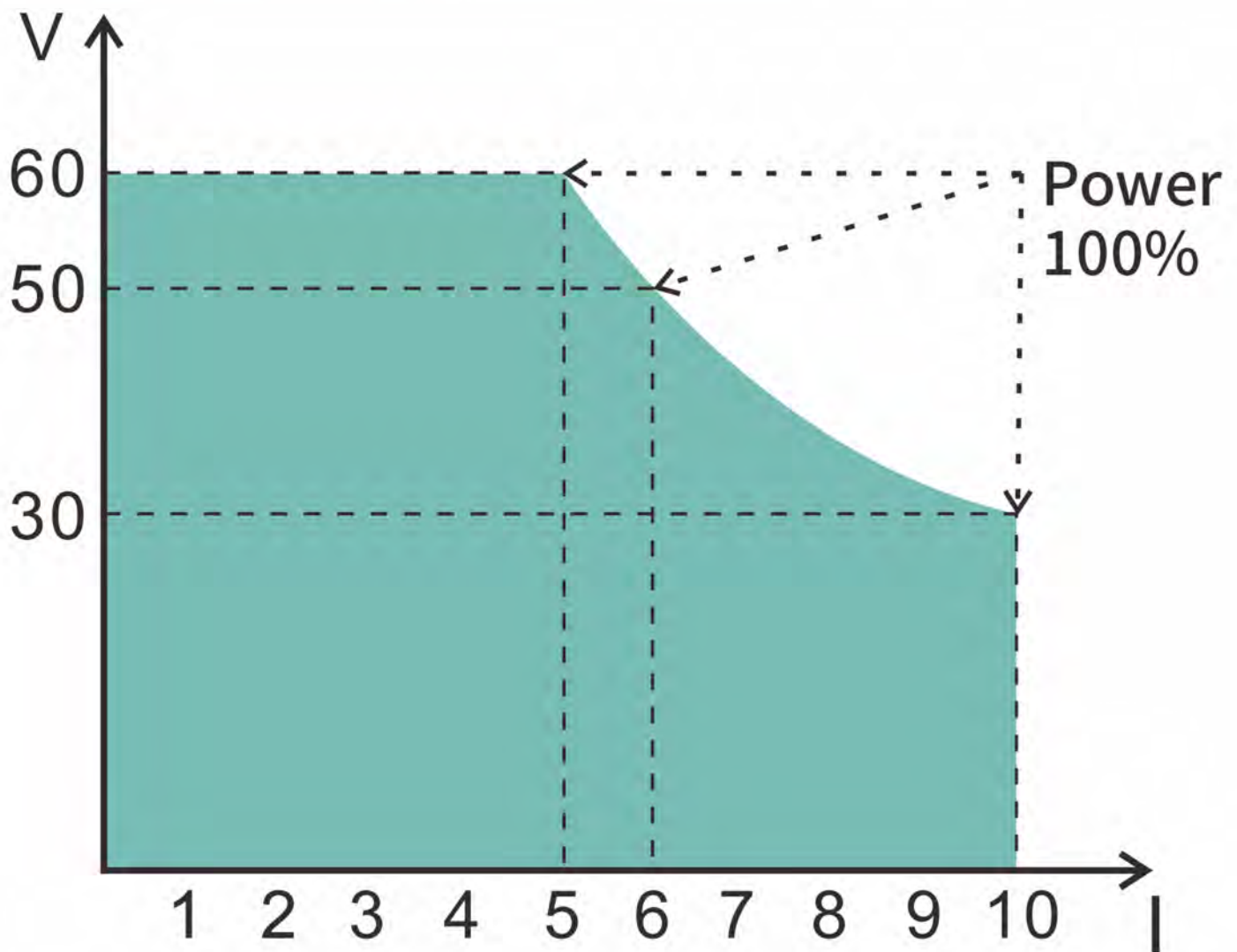
**Accurate output**

**8h**

**High temperature full load test**

Model	SP3051	SP3101	SP6101	SP3103	SP6053	SP6103
Output Ranges	30V/5A	30V/10A	60V/10A	30V/10A	60V/5A	60V/10A
Output Power	150W			300W		

Constant power design provides a combination of multiple ranges of voltage and current settings, allowing flexible configurations of higher voltage and larger current for users within the rated power range.

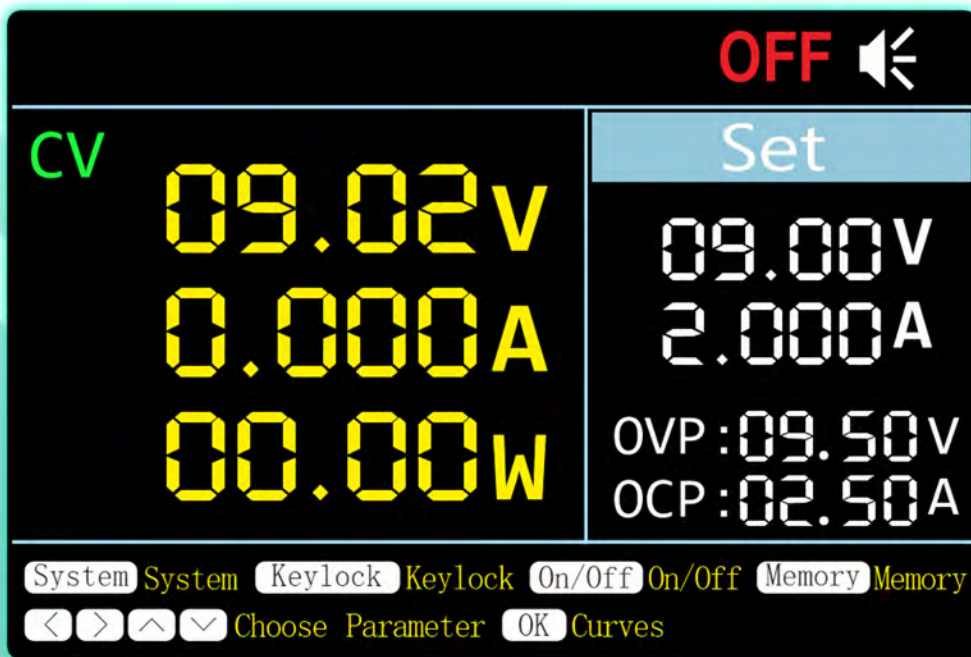


Schematic diagram of power supply constant power (take SP6103 for instance)

# Large LCD Display

Easy to read parameters

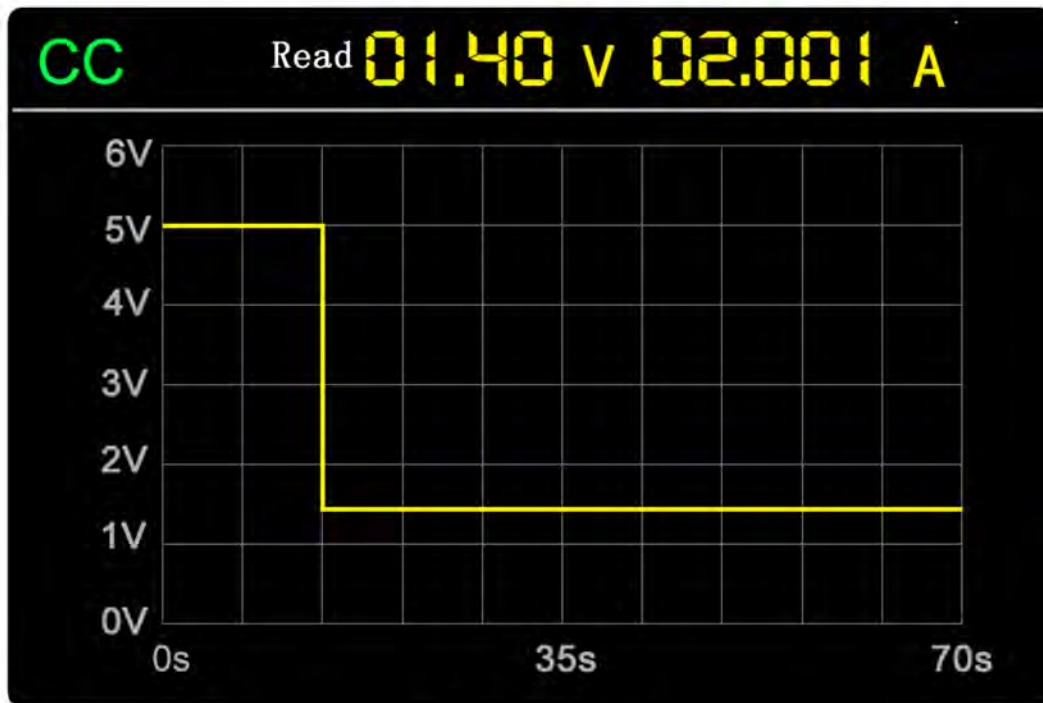
- HD LCD display  
(480 × 320 pixels)



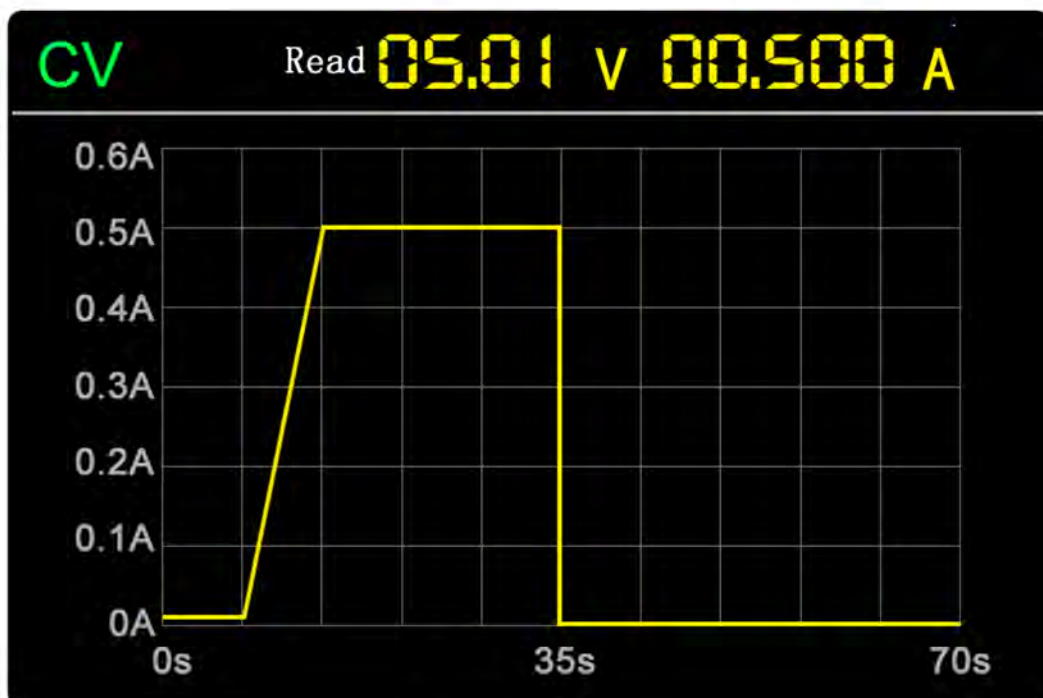
▲ Conventional display example\*

# Original voltage/current curve monitoring function

Suitable for cell phone and notebook repair, PCB aging test, battery charging

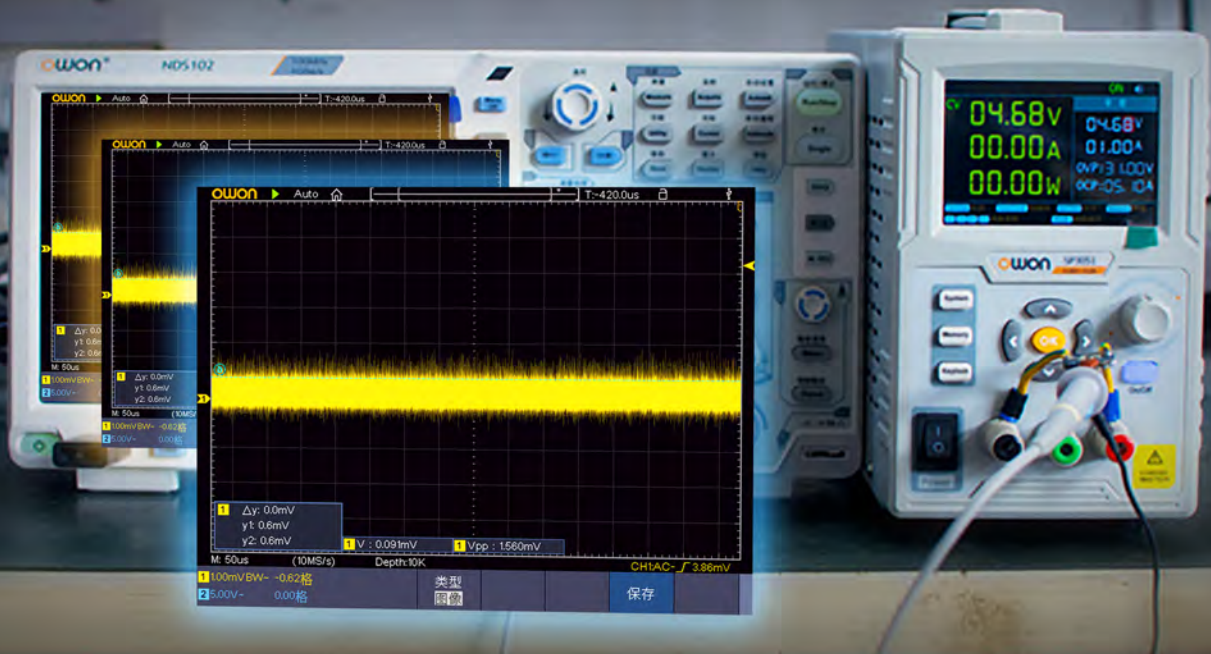


Voltage curve



Current curve

# Low ripple and noise to meet the requirements for high accuracy testing



**Choose SP series power supply,  
choose more stable quality**

Intelligent temperature control fan heat dissipation,  
reduce noise interference, and run more stable

Save up to 5 sets of parameters in memory for easy recall.

**OFF** 🔊 ✕

Memory	Edit	
<input type="checkbox"/> M1:	SET: $\frac{12.00V}{01.90A}$	O.P: $\frac{03.50V}{01.60A}$
<input checked="" type="checkbox"/> M2:	SET: $\frac{05.00V}{02.00A}$	O.P: $\frac{05.50V}{02.10A}$
<input type="checkbox"/> M3:	SET: $\frac{09.00V}{02.00A}$	O.P: $\frac{09.50V}{02.50A}$
<input type="checkbox"/> M4:	SET: $\frac{12.00V}{02.50A}$	O.P: $\frac{12.50V}{02.60A}$
<input type="checkbox"/> M5:	SET: $\frac{24.00V}{03.00A}$	O.P: $\frac{24.50V}{03.50A}$

Memory Exit < > Choose Menu  
^ v Choose Parameter OK Confirm

Constant voltage/constant current mode to protect circuit devices

**CV**: Constant Voltage output  
**CC**: Constant Current output

**ON** 🔊 ✕

CV	Set
14.39V	14.39V
00.06A	02.05A
00.88W	OVP: 31.00V
	OCP: 05.10A

Support programming output by PC software via RS232, SCPI digital communication function



# Rigorous testing, 2-year warranty, safety



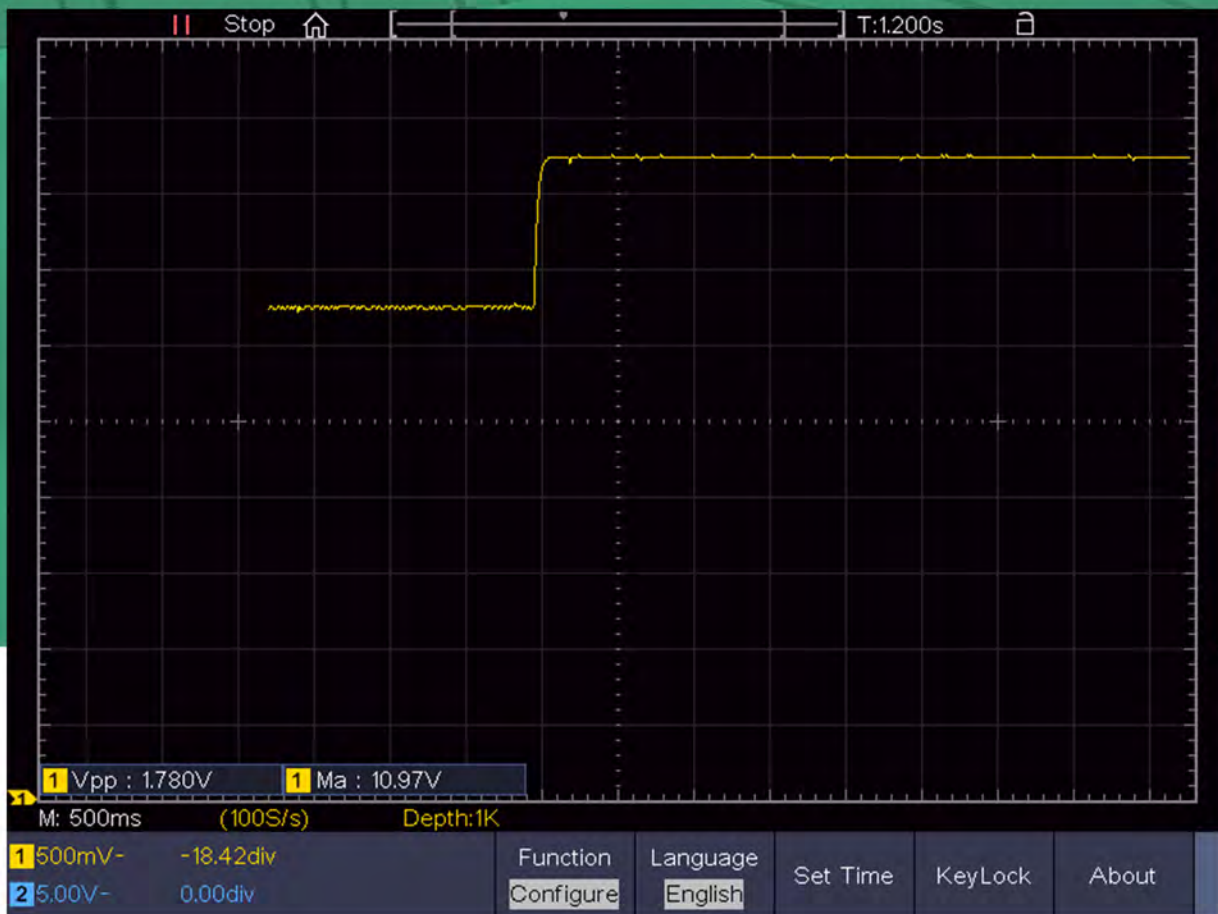
Salt spray test



High-low temperature test



Calibration equipment



No overshoot in power switching, effectively protecting the circuit



3.7 inch (480 x 320 pixel) HD LCD Display



System setting

Memory Key

Key lock

Main switch

Direction and confirm key

Voltage/Current adjust knob

Output ON/OFF

Channel output terminals



110V/220V Power switch

Power socket

Fuse

Cooling fan

RS232 communication interface

# PRODUCT SPECIFICATIONS

The instrument must be operated continuously for more than 30 minutes at the specified temperature to ensure the following parameters.

Model		SP3051	SP3101	SP6101	SP6053	SP3103	SP6103
Rated Output (0°C-40°C)	Voltage	0 - 30V	0 - 30V	0 -60V	0 -60V	0 - 30V	0 -60V
	Current	5A	10A	10A	5A	10A	10A
	Output Power	150W	150W	150W	300W	300W	300W
Load Regulation	Voltage	≤30mV					
	Current	≤30mA					
Power Regulation	Voltage	≤20mV					
	Current	≤20mA					
Setting Resolution	Voltage	10mV					
	Current	1mA					
Readback Resolution	Voltage	10mV					
	Current	1mA					
Ripple/Noise (20Hz-20MHz)	Voltage (Vp-p)	≤30mVp-p		≤50mVp-p	≤30mVp-p		≤50mVp-p
	Voltage (rms)	≤3mVrms		≤5mVrms	≤3mVrms		≤5mVrms
	Current (rms)	≤30mA p-p					
Response Time		≤1.0ms					
Storage		5 groups of data					
Working Temperature		0-40°C					

The above parameters are subject to change without further notice, please refer to the website update.

# PRODUCT ACCESSORY

**Dimension (W×H×D): 117 x 194 x 295 (mm)**  
**Device Weight: Approx. 2.3 kg**

