



SP Series

Single Channel Digital
Power Supply (Switchmode)



LCD
Display



Slim
Case



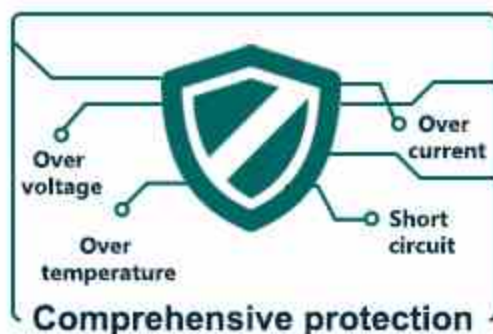
Supports
SCPI

High
Resolution
at 10mV/10mA

- 150W maximum output power
- Low ripple and noise
- Over-voltage/over-current protection
- Advanced cooling system
- Supports RS232

Fully Digital DC Stabilized Power Supply

Large Display / Portable & Durable / Stable Output



30V regulated voltage

30V

5A regulated current

5A

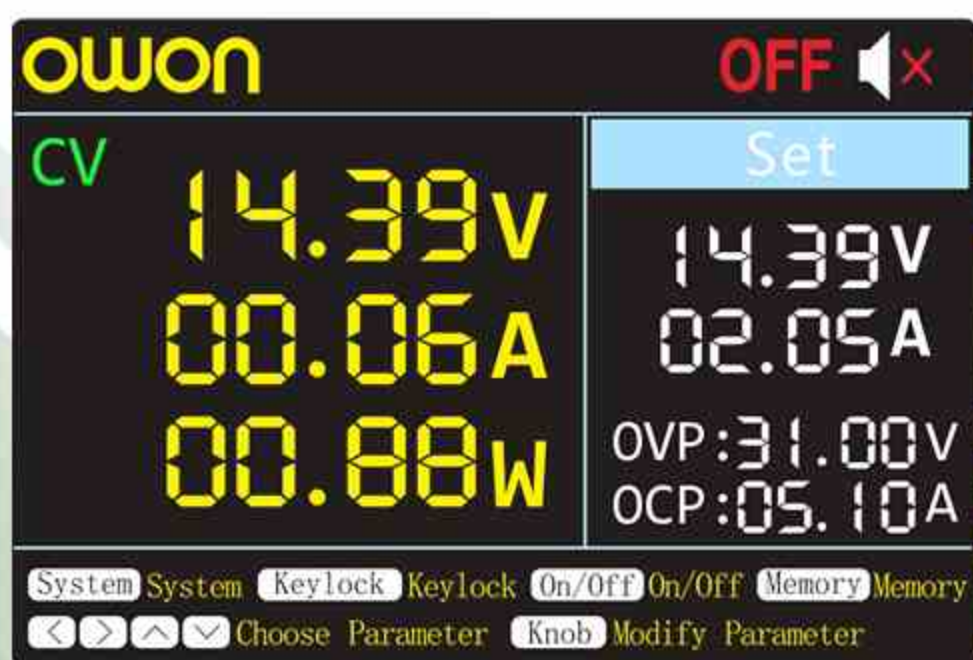
150W regulated power

150W

Large LCD Display

Easy to read parameters

- HD LCD display
(480 × 320 pixels)



▲ Conventional display example*



EXTENSIVE APPLICATIONS

Can be used in many situations:

Mobile/Laptop Repair, PCB/Motor Testing, Battery Charging.

High Accuracy and Resolution

Supports 10mV/10mA Resolution up to Full Load.

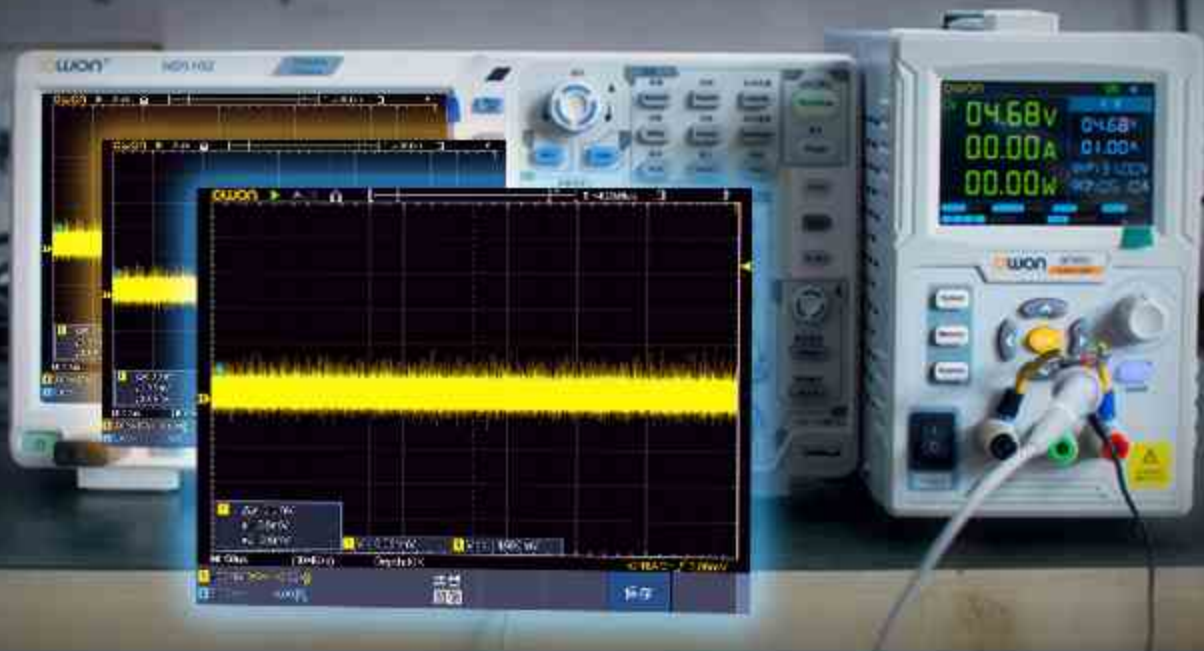




High-quality technology, stable quality

High accuracy components, Certified to European CE requirements

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



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



owon OFF 

	Memory	Set	Output
☐	M1:	SET: 12.00V 01.90A	O.P: 03.50V 01.60A
☒	M2:	SET: 05.00V 02.00A	O.P: 05.50V 02.10A
☐	M3:	SET: 09.00V 02.00A	O.P: 09.50V 02.50A
☐	M4:	SET: 12.00V 02.50A	O.P: 12.50V 02.60A
☐	M5:	SET: 24.00V 03.00A	O.P: 24.50V 03.50A

Memory Exit < > Choose Menu Knob Modify Parameter
< > Choose Parameter OK Confirm

Stable Performance, CE Certified, SCPI Protocol Support



Compact Case is easy to carry

PROVIDES GREAT PORTABILITY



295mm

194mm

117mm

Approx. 2.3 kg

Why choose the SP3051?

1

Rigorous testing, 2-year warranty, safety



Salt spray test



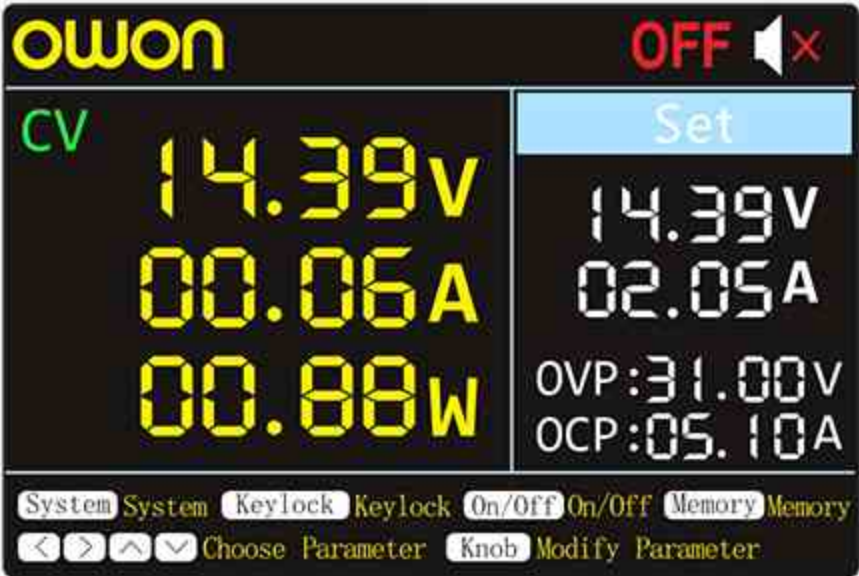
High-low temperature test



Calibration equipment

2

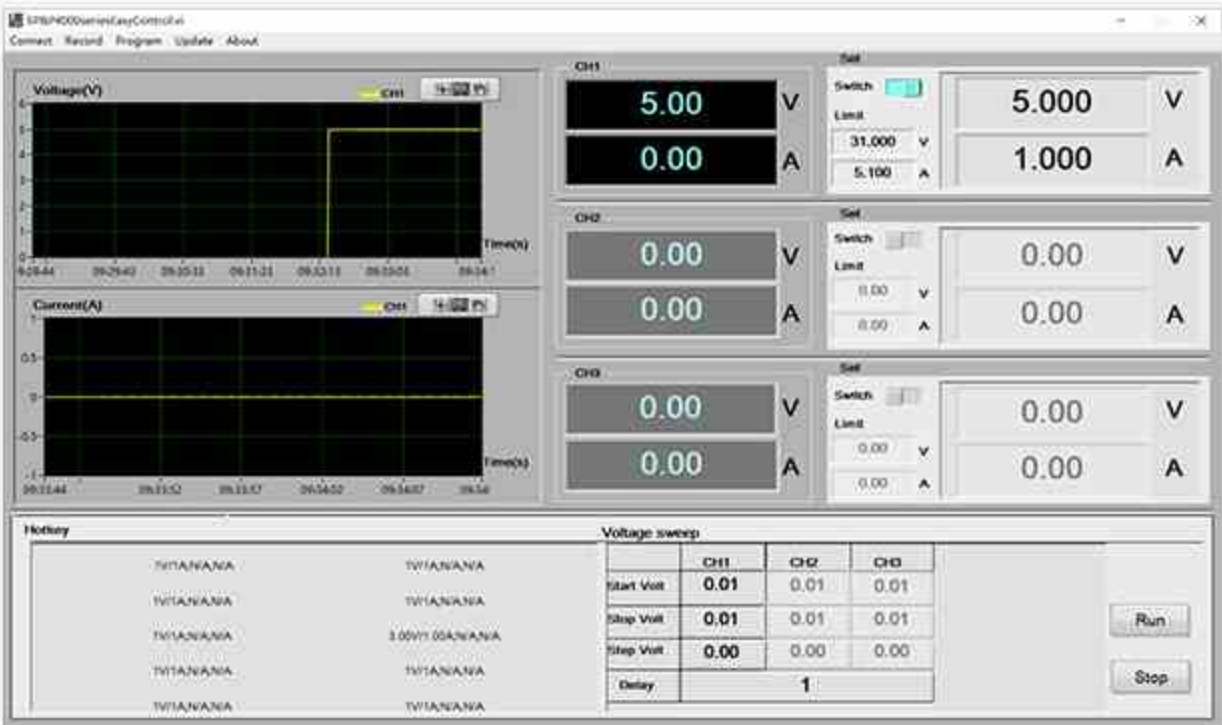
3.7 inch colour LCD, display more setting information



Voltage/current/power output; Set values of voltage/current; Over-voltage/over-current protection

3

Supports programming from software on your PC



4

Constant voltage or constant current mode can protect the device and 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



Power socket

Fuse

Cooling fan

RS232

communication interface

Specifications

Input Parameter	Working Voltage Range	198-264Vac / 90-120Vac
	Working Frequency Range	45-65Hz
	Efficiency (220Vac, full load)	$\leq 1.4A$
	No-load input current (220Vac)	$\leq 80mA$
Rated Output (0°C-40°C)	Voltage	0-30V
	Overvoltage Protection	31V
	Current	0-5A
	Power	150W
Load Regulation (%of output+offset)	Voltage	$\leq 30mV$
	Current	$\leq 50mA$
Line Regulation (%of output+offset)	Voltage	$\leq 10mV$
	Current	$\leq 20mA$
Setting Resolution	Voltage	10mV
	Current	10mA
Readback Resolution	Voltage	10mV
	Current	10mA
Value Resolution (within 12 months) (25°C±5°C) (%of output+offset)	Voltage	$\leq 0.3\%+10mV$
	Current	$\leq 0.3\%+20mA$
Readback Value Resolution (25°C±5°C) (%of output+offset)	Voltage	$\leq 0.3\%+10mV$
	Current	$\leq 0.3\%+20mA$
Ripple and Noise (20Hz-20MHz)	Voltage (Vp-p)	$\leq 30mVp-p$
	Voltage (rms)	$\leq 3mVrms$
	Current (Ap-p)	$\leq 30mA p-p$
Output Temperature Coefficient (0°C-40°C) (%of output+offset)	Voltage	$\leq 0.3\%+10mV$
	Current	$\leq 0.3\%+20mA$
Readback Temperature Coefficient (%of output+offset)	Voltage	$\leq 0.3\%+10mV$
	Current	$\leq 0.3\%+20mA$
Transient Response Time	Time	$\leq 1.0ms$
Interface		RS232
Temperature		0-40°C
Display		3.7 inches color LCD, 480 x 320 pixels
Dimension		295*117*194mm
Weight		Approx. 2.3 kg

Accessories and Packaging



1 SP3051

2 Quick Guide

3 Fuse

4 Power Cord

5 RS232

Dimension (W×H×D): 117 x 194 x 295 (mm)

Device Weight: Approx. 2.3 kg

Packaging Size (W×H×D): 265 x 197 x 412 (mm)

