



SPE Series

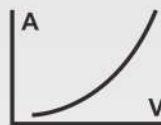
Single channel
programmable power supply



LCD Display



List waveform
editing



Voltage and current
change curve



- Ultra-thin body, portable and easy to use
- 150W - 500W constant power design, wide application range
- Over voltage/over current protection
- Power-on automatic output setting function, suitable for unattended occasions
- Intelligent temperature control fan cooling, reduce noise
- 4 groups of Memory shortcut parameters for quick output
- USB Device communication port, support SCPI
- Constant voltage CV/constant current CC mode, effectively protect the circuit

Model	Output range	Output Power	Interface	Set precision
SPE3051	0-30V / 0-5A	150W	USB Device	10mV/1mA
SPE3102	0-30V / 0-10A	200W		
SPE6102	0-60V / 0-10A	200W		
SPE6053	0-60V / 0-5A	300W		
SPE3103	0-30V / 0-10A	300W		
SPE6103	0-60V / 0-10A	300W		
SPE8105	0-80V / 0-10A	500W		
SPE8205	0-80V / 0-20A	500W		

Small body, full power



2.8-inch LCD, display more information

CV: Constant Voltage output

CC: Constant Current output

Display cumulative running time

Actual output power

Channel output
status

Actual voltage
output

Actual current
output



Set values of
voltage/current

Set values of
O.V.P/O.C.P

Multiple settings to protect your circuit



Independent output On/Off button control, protect the circuit.

Long press to set the automatic output voltage/current 5 seconds after booting.



Overvoltage and overcurrent values can be set to protect the circuit

CV: Constant Voltage output
CC: Constant Current output

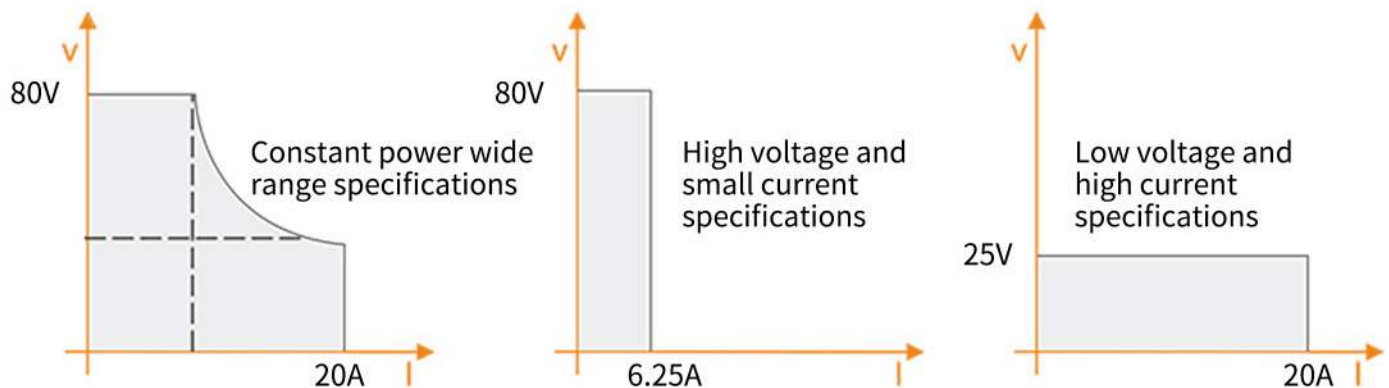
Constant voltage CV/constant current CC intelligent switching mode, effectively protect the circuit.

When the actual current exceeds the preset current value, the power supply automatically switches to CC mode to protect the circuit.



Multiple functions to meet your different testing needs

Constant power design, wide application range, provides flexible configuration of higher voltage and current within the rated power range. One device is equal to multiple.



Output voltage/current change curve monitoring function, suitable for repair of phones and laptops, PCB aging test, battery charging and discharging experiment, etc.



Battery charging



Aging test



Phone repair

- List waveform editing output, editable 10 groups of timing output.

ON	CV	T	00:00:31	06.80w	(A)
	U	I	T	Y/N	
6	05.00v	01.600A	00:00:10	☐	
7	04.00v	01.400A	00:00:10	☐	
8	03.00v	01.200A	00:00:10	☒	
9	03.00v	01.100A	00:00:10	☐	
Set			Limit		
30.00 v 10.065 A			32.00 v 10.200 A		

- 4 groups of Memory shortcut parameters for quick output.

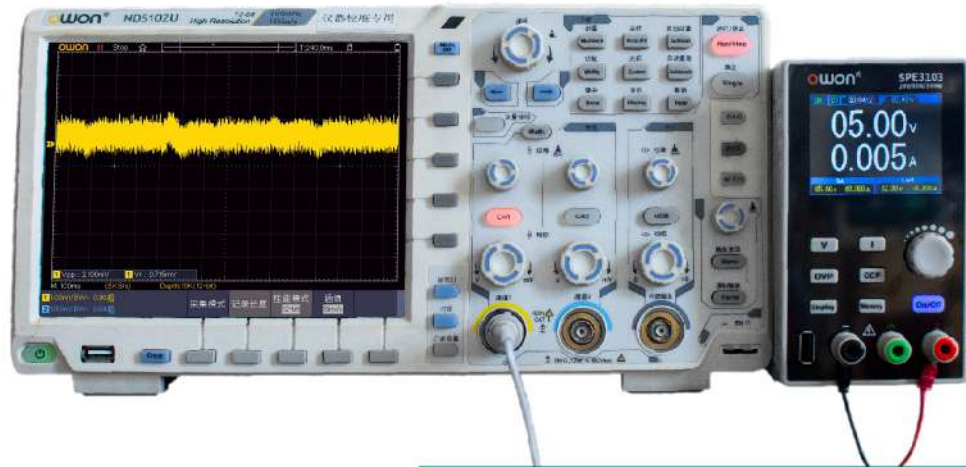
ON	CV	T	00:00:16	06.80w	(A)
	U	I	OVP	OCP	
M1	05.12v	05.000A	32.00v	10.200A	
M2	14.97v	04.960A	16.00v	05.100A	
M3	07.00v	02.000A	08.00v	02.500A	
M4	15.00v	02.000A	32.00v	03.400A	
Set			Limit		
30.00 v 10.065 A			32.00 v 10.200 A		

- Supports PC software programming output through USB and SCPL communication function.



The most important to buy a power supply is "STABLE"

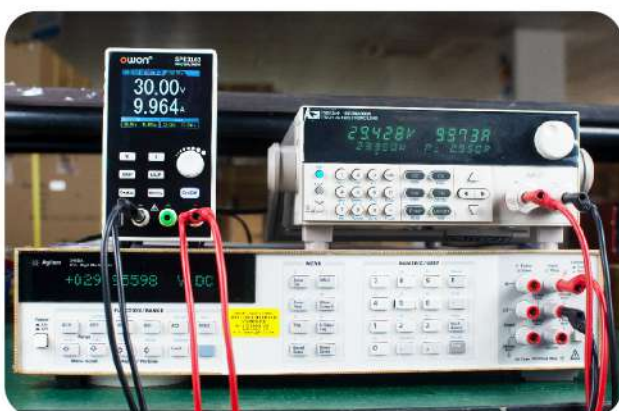
1. Stable output, low ripple and noise power supply, meeting high-precision test requirements



2. Employing the TI C2000 microcontroller with fully digital high-resolution control and 24-bit high-performance ADC sampling to ensure precision and stability in power control.



3. Use millions worth of equipment to verify power supply one by one, ensure the quality of the product





Shortcut output button,
long press to enter the
List waveform timing
output interface

Voltage setting button

Overvoltage protection setting

Curve display switch button

Front USB port,
can output 5V/1A voltage and
current (excluding 500W model)

2.8-inch LCD

Current setting button

Adjustment knob

Overcurrent protection
setting

Channel output on/off
button, long press to
turn on the automatic
output function

Channel output terminals



USB Device communication port,
supporting SCPI

Intelligent temperature
control fan

Power cord socket

Fuse

Power switch

Voltage	Fuse	Line Rating	
100-120V AC	250V, F5A	50-60 Hz	300 Watts 400 VA Max

PRODUCT

SPECIFICATIONS

The instrument must be operated continuously for more than 30 minutes at the specified operating temperature to achieve the following specifications

Model	SPE3051	SPE3102	SPE6102	SPE6053	SPE3103	SPE6103	SPE8105	SPE8205
Output Voltage	0 - 30V	0 - 30V	0 - 60V	0 - 60V	0 - 30V	0 - 60V	0 - 80V	0 - 80V
Output Current	5A	10A	10A	5A	10A	10A	10A	20A
Max Output Power	150W	200W	200W	300W	300W	300W	500W	500W
OVP	31V	31V	61V	61V	31V	61V	85V	85V
OCP	5.1A	10.1A	10.1A	5.1A	10.1A	10.1A	11A	21A
OTP	85℃							
Load Regulation	≤20mV (Voltage) ; ≤10mA (Current)							
Power Regulation	≤20mV (Voltage) ; ≤10mA (Current)							
Setting Resolution	10mV / 1mA							
Readback Resolution	10mV / 1mA							
Setting Accuracy (25℃±5℃)	≤0.1% ± 30mV (Voltage); ≤0.1% ± 10mA (Current)						≤0.05% ± 20mV (Voltage); ≤0.05% ± 20mA (Current)	
Readback Accuracy (25℃±5℃)	≤0.1% ±30mV (Voltage); ≤0.1% ± 10mA (Current)						≤0.05% ± 20mV (Voltage); ≤0.05% ± 20mA (Current)	
Ripple/Noise (*)	≤50mVp-p; ≤15mA _{p-p}							
Output temperature coefficient (0℃-40℃)	100ppm/℃ (Voltage) ; 200ppm/℃ (Current)							
Readback temperature coefficient	100ppm/℃ (Voltage) ; 200ppm/℃ (Current)							
Response Time (50%-100% rated load)	≤1.0ms						≤5.0ms	
Storage	4 groups of data							
Display	2.8inch LCD						2.8inch LCD (IPS)	
Interface	USB Device							
Dimension	82mm (W) × 142mm (H) ×226mm (D)							
Weight	Approx. 1.8 kg							

* Ripple & Noise (Noise bandwidth 20MHz, ripple bandwidth 1MHz, connect 10uF electrolytic capacitor in parallel with 0.1uF ceramic capacitor to the output terminal for testing)

PRODUCT

ACCESSORY



- 1

Power Supply
Main Device
- 2

Manual
- 3

Power Cord
- 4

USB Cable

Dimension (W x H x D):
82 x 142 x 226 (mm)

Device Weight: Approx. 1.5 kg