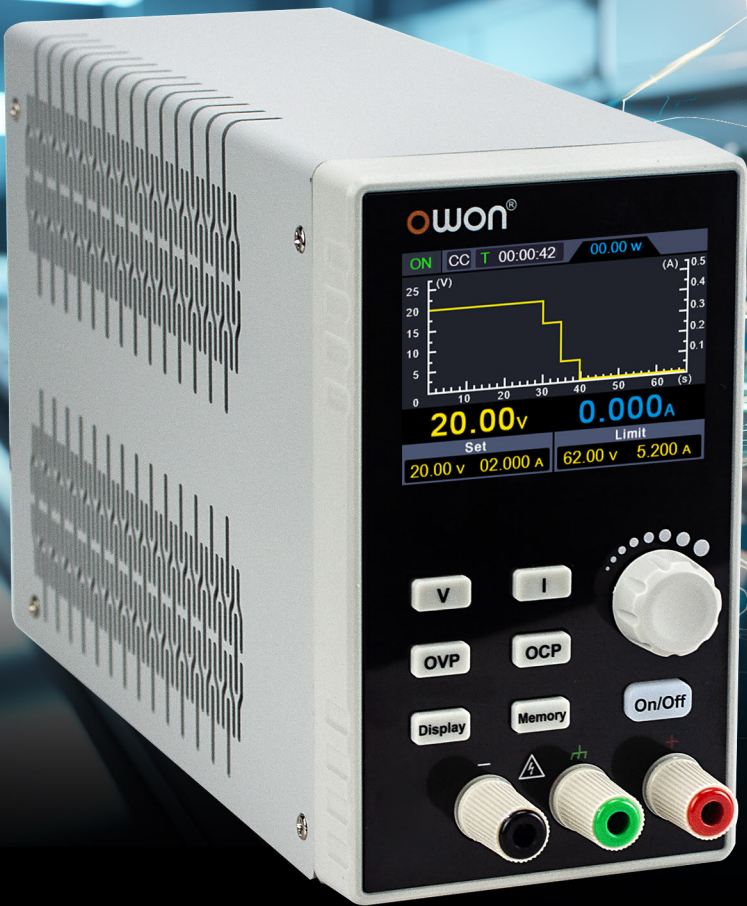




Fanless and Ultra-silent

## SPS Series

Single Channel Programmable  
DC Power Supply

- Fanless design: Ultra-quiet and reduces the vibration noise and potential failure risks of traditional cooling fans.
- Excellent heat dissipation design: Long-term operation under full load conditions ensures controlled temperature rise for internal component longevity. The touchable surface enhances user comfort.
- Lightweight and ultra-thin design
- Output accuracy up to 10mV/1mA
- Support List waveform editing and output, 4 groups of memory shortcut parameters for quick output
- Integrated protection features include overvoltage, overcurrent, overtemperature and input undervoltage.
- Equipped with voltage and current waveform monitoring, capable of online data recording for 1 minute, enabling source meter integration for users to easily identify and capture anomalies.
- 2.8-inch TFT LCD screen
- The output includes a built-in discharge circuit to prevent residual high voltage risks when the power is turned off.
- Offers USB communication interface, compatible with SCPI protocol, allowing PC programming and remote control, simplifying user remote management.

| Model   | Output Range   | Setting Resolution | Output Power | Others                                     |
|---------|----------------|--------------------|--------------|--------------------------------------------|
| SPS6051 | 0 - 60V/0 - 5A | 10mV / 1mA         | 150W         | Supports upper computer programming output |
| SPS3081 | 0 - 30V/0 - 8A |                    | 120W         | Voltage/Current curve monitoring function  |



# Silent Operation, Silent Power

The SPS features a fanless design, reducing noise and failure risks, providing a quiet and reliable environment.



# Ultimate Cooling, From The Inside Out

Long-term operation under full load conditions ensures controlled temperature rise for internal component longevity. The touchable surface enhances user comfort.



# Circuit Guardian,Safety Assured

OVP

Detected voltage anomaly beyond OVP threshold triggers immediate machine shutdown,safeguarding user products from overvoltage damage.

OCP

Detected current anomaly beyond OCP threshold triggers immediate machine shutdown,safeguarding user products from overvoltage damage.

OTP

Detected internal component overheating triggers immediate machine shutdown,ensuring protection from environmental damage.

UVLO

Detected mains voltage anomaly <85Vac triggers immediate machine shutdown,ensuring machine safety.

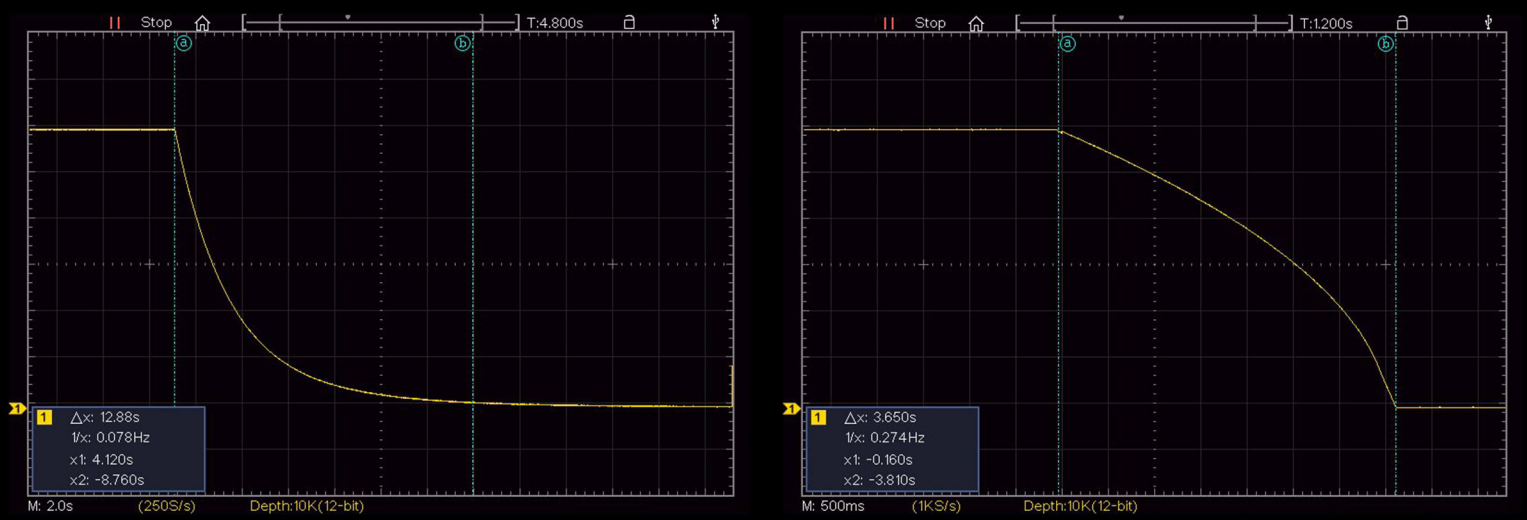
## Nothing is More Important than Stability



1

Built-in Discharge Design: Safeguarding Equipment, Trusting Every Drop of Power

Built-in discharge circuit ensures no residual high voltage risk when power is turned off.



Non-Discharge Circuit

Built-in Discharge Circuit

2

Ultimate Clean Power Supply,Safeguarding Your Precision World

Excellent ripple and noise ensure stable operation,improved performance,extended lifespan,and reduced electromagnetic interference for electronic devices.



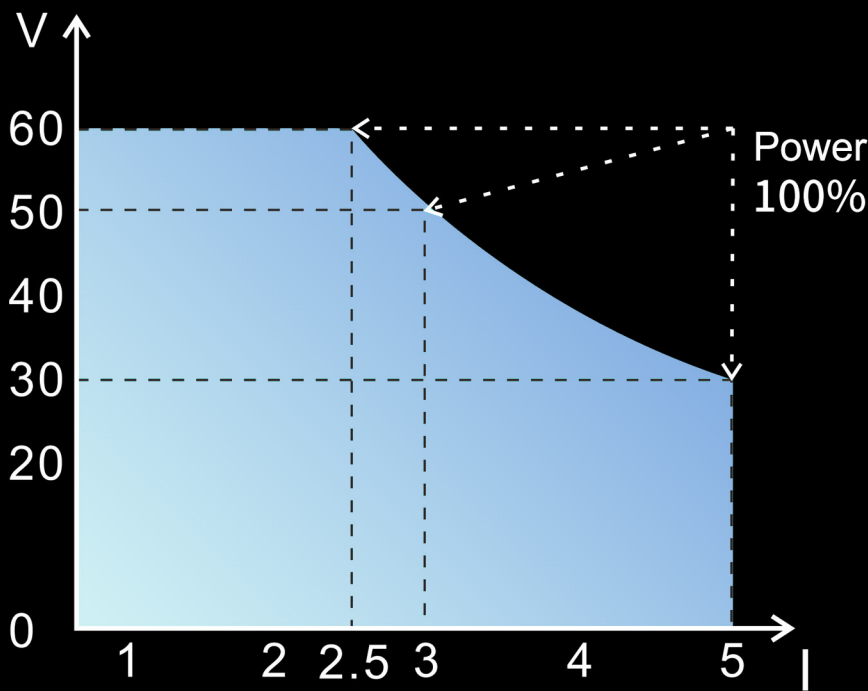
# Suspass Performance, Expanding Possibilities



1

## Constant Power Design

Allowing higher voltage and current within rated power range, flexible configuration, one unit equals multiple units.



2

## Flexible waveform editing and quick configuration

Support List waveform editing and output, 4 groups of memory shortcut parameters for quick output

| OFF              | CC      | T                | 00:00:12 | 00.00 w                             |
|------------------|---------|------------------|----------|-------------------------------------|
|                  | U       | I                | T        | Y/N                                 |
| 1                | 61.00 v | 05.100 A         | 00:00:10 | <input checked="" type="checkbox"/> |
| 2                | 30.00 v | 01.500 A         | 00:00:10 | <input checked="" type="checkbox"/> |
| 3                | 20.00 v | 01.700 A         | 00:00:10 | <input checked="" type="checkbox"/> |
| 4                | 15.00 v | 01.200 A         | 00:00:10 | <input checked="" type="checkbox"/> |
| Set              |         | Limit            |          |                                     |
| 60.00 v 02.500 A |         | 62.00 v 05.200 A |          |                                     |

List waveform editing output

| OFF              | CC      | T                | 00:00:12 | 00.00 w  |
|------------------|---------|------------------|----------|----------|
|                  | U       | I                | OVP      | OCP      |
| M1               | 61.00 v | 02.500 A         | 62.00 v  | 05.200 A |
| M2               | 20.00 v | 01.700 A         | 31.00 v  | 02.600 A |
| M3               | 12.00 v | 01.000 A         | 15.00 v  | 01.300 A |
| M4               | 30.00 v | 01.000 A         | 62.00 v  | 01.700 A |
| Set              |         | Limit            |          |          |
| 60.00 v 02.500 A |         | 62.00 v 05.200 A |          |          |

4 groups of Memory shortcut parameters for quick output

3

## Curve Waveform Monitoring and Data Recording

Equipped with voltage and current waveform monitoring, capable of online data recording for 1 minute, enabling source meter integration for users to easily identify and capture anomalies.



Phone Repair



Battery Charging



Aging Test



4

## Convenient Communication Interface

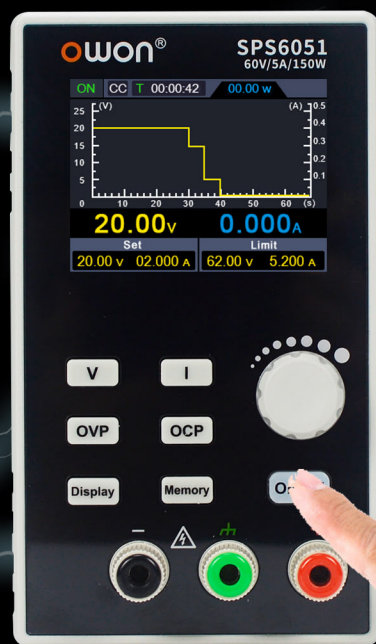
Offers USB communication interface, compatible with SCPI protocol, allowing PC programming and remote control, simplifying user remote management.



5

## Two Output Settings for Various Needs

Independent Output Switch Control (default) for Circuit Protection. Long-press Output Button to Automatically Activate Output 5 Seconds After Power On.





## Product Parameters

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

| Model                                        |         | SPS6051                                  |  | SPS3081      |  |
|----------------------------------------------|---------|------------------------------------------|--|--------------|--|
| Input                                        |         | 85V-265V（45~65Hz）                        |  |              |  |
| Rated Output<br>(0°C-40°C)                   | Voltage | 0 - 60V                                  |  | 0 - 30V      |  |
|                                              | Current | 0 - 5A                                   |  | 0 - 8A       |  |
|                                              | Power   | 150W                                     |  | 120W         |  |
| Load Regulation                              | Voltage | ≤30mV                                    |  |              |  |
|                                              | Current | ≤20mA                                    |  |              |  |
| Power Regulation                             | Voltage | ≤30mV                                    |  |              |  |
|                                              | Current | ≤20mA                                    |  |              |  |
| Setting Resolution                           | Voltage | 10mV                                     |  |              |  |
|                                              | Current | 1mA                                      |  |              |  |
| Readback Resolution                          | Voltage | 10mV                                     |  |              |  |
|                                              | Current | 1mA                                      |  |              |  |
| Seting Accuracy<br>(25°C±5°C)                | Voltage | ≤0.05% ± 20mV                            |  | ≤0.1% ± 20mV |  |
|                                              | Current | ≤0.05% ± 20mA                            |  | ≤0.2% ± 20mA |  |
| Readback Accuracy<br>(25°C±5°C)              | Voltage | ≤0.05% ±20mV                             |  | ≤0.1% ±20mV  |  |
|                                              | Current | ≤0.05% ±20mA                             |  | ≤0.2% ± 20mA |  |
| Ripple/Noise<br>(*)                          | Voltage | ≤30mVp-p                                 |  | ≤30mVp-p     |  |
|                                              | Voltage | ≤4mVrms                                  |  | ≤5mVrms      |  |
|                                              | Current | ≤10mA p-p                                |  | ≤30mA p-p    |  |
| Output Temperature Coefficient<br>(0°C-40°C) | Voltage | 100ppm/°C                                |  |              |  |
|                                              | Current | 200ppm/°C                                |  |              |  |
| Readback Temperature Coefficient             | Voltage | 100ppm/°C                                |  |              |  |
|                                              | Current | 200ppm/°C                                |  |              |  |
| Response Time<br>(50%-100% rated load)       |         | ≤1.0ms                                   |  |              |  |
| Storage                                      |         | 4 Groups Of Data                         |  |              |  |
| Display                                      |         | 2.8-inch TFT LCD Display                 |  |              |  |
| Interface                                    |         | USB Device,Compatible with SCPI Protocol |  |              |  |

## Product Accessories

- 1 Power Supply Main Device
- 2 Manual
- 3 Fuse
- 4 USB Cable
- 5 Banana Plug to Alligator Clip

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

**Device Weight : Approx. 1.8kg**



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