



Fanless and Ultra-silent

SPS Series

Single Channel Programmable
DC Power Supply

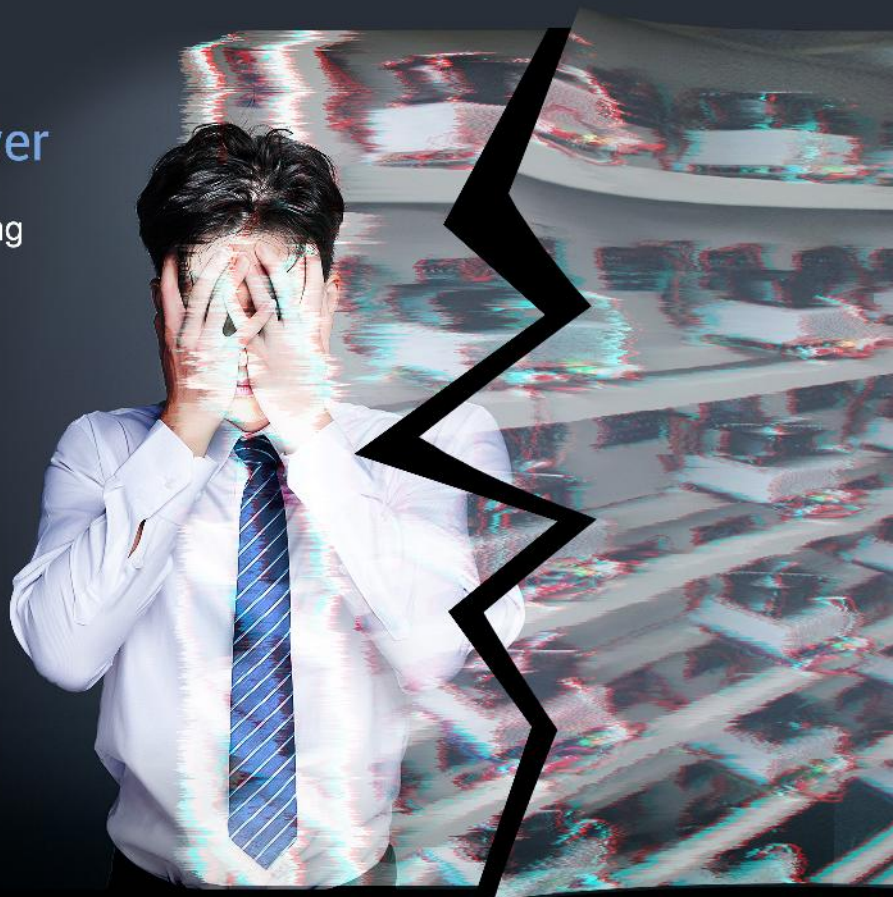
- Fanless design: Ultra-quiet and reduces the vibration noise and potential failure risks of traditional cooling fans.
- Excellent heat dissipation design: Long-term operation under full load conditions ensures controlled temperature rise for internal component longevity. The touchable surface enhances 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

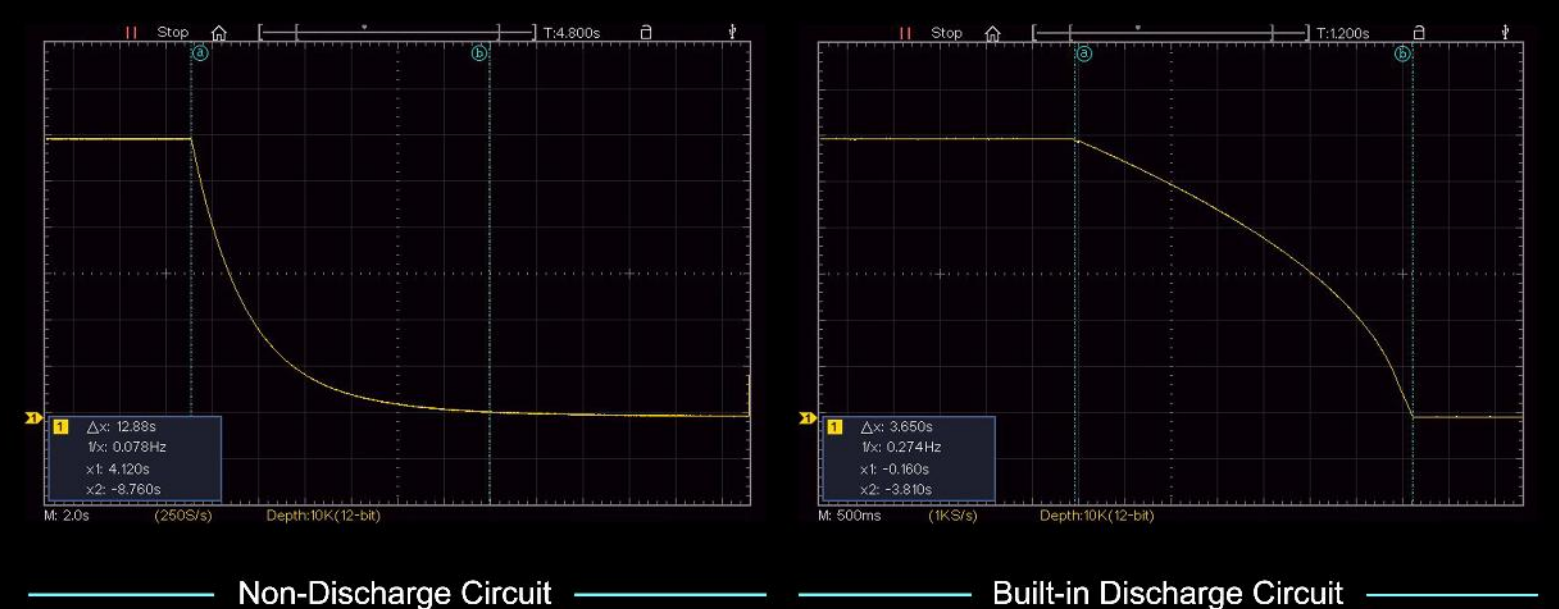
Detected mains voltage anomaly <85Vac triggers immediate machine shutdown,ensuring machine safety.

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.



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.

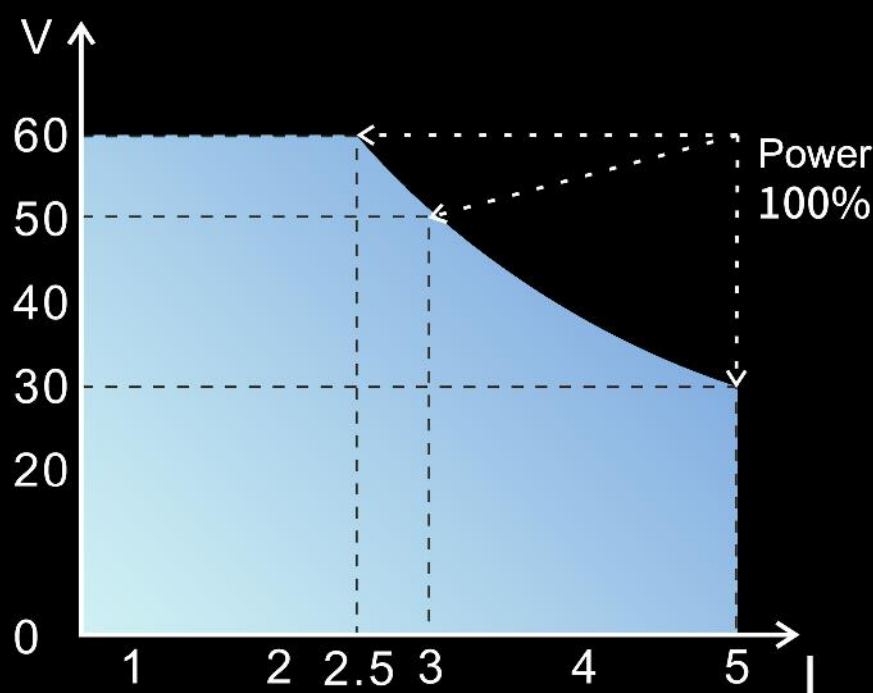


Suspass Performance, Expanding Possibilities

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.





SPS

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 (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 (25°C±5°C)	Voltage	≤0.05% ± 20mV	≤0.1% ± 20mV
	Current	≤0.05% ± 20mA	≤0.2% ± 20mA
Readback Accuracy (25°C±5°C)	Voltage	≤0.05% ±20mV	≤0.1% ±20mV
	Current	≤0.05% ±20mA	≤0.2% ± 20mA
Ripple/Noise (*)	Voltage	≤30mVp-p	≤30mVp-p
	Voltage	≤4mVrms	≤5mVrms
	Current	≤10mA _{p-p}	≤30mA _{p-p}
Output Temperature Coefficient (0°C-40°C)	Voltage	100ppm/°C	
	Current	200ppm/°C	
Readback Temperature Coefficient	Voltage	100ppm/°C	
	Current	200ppm/°C	
Response Time (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	

SPS

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

