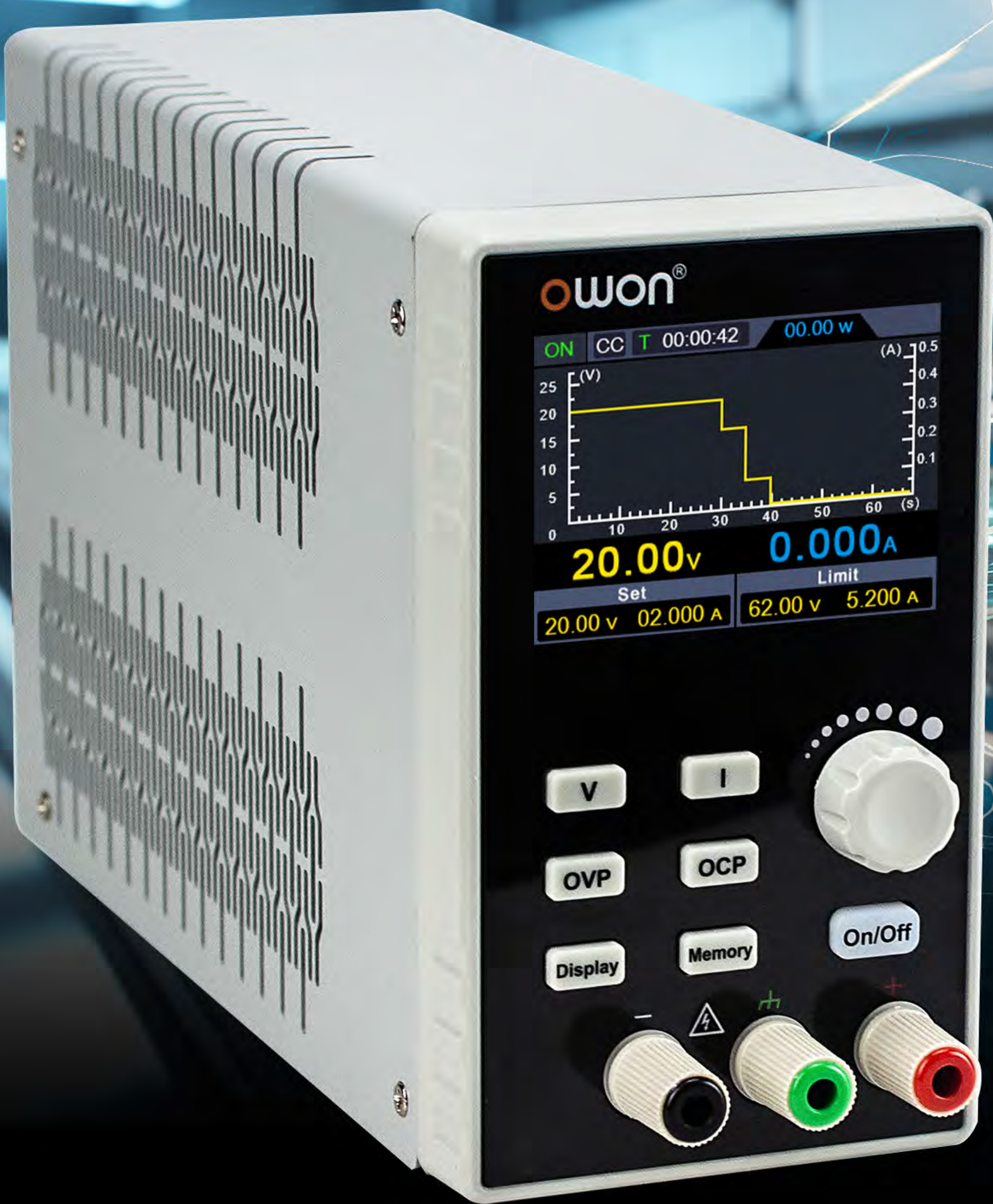




Fanless and Ultra-silent

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
SPS3051	0 - 30V/0 - 5A	10mV / 1mA	150W	Supports upper computer programming output
SPS6051	0 - 60V/0 - 5A		150W	
SPS3081	0 - 30V/0 - 8A		120W	
SPS6081	0 - 60V/0 - 8A		120W	
SPS8081	0 - 80V/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.

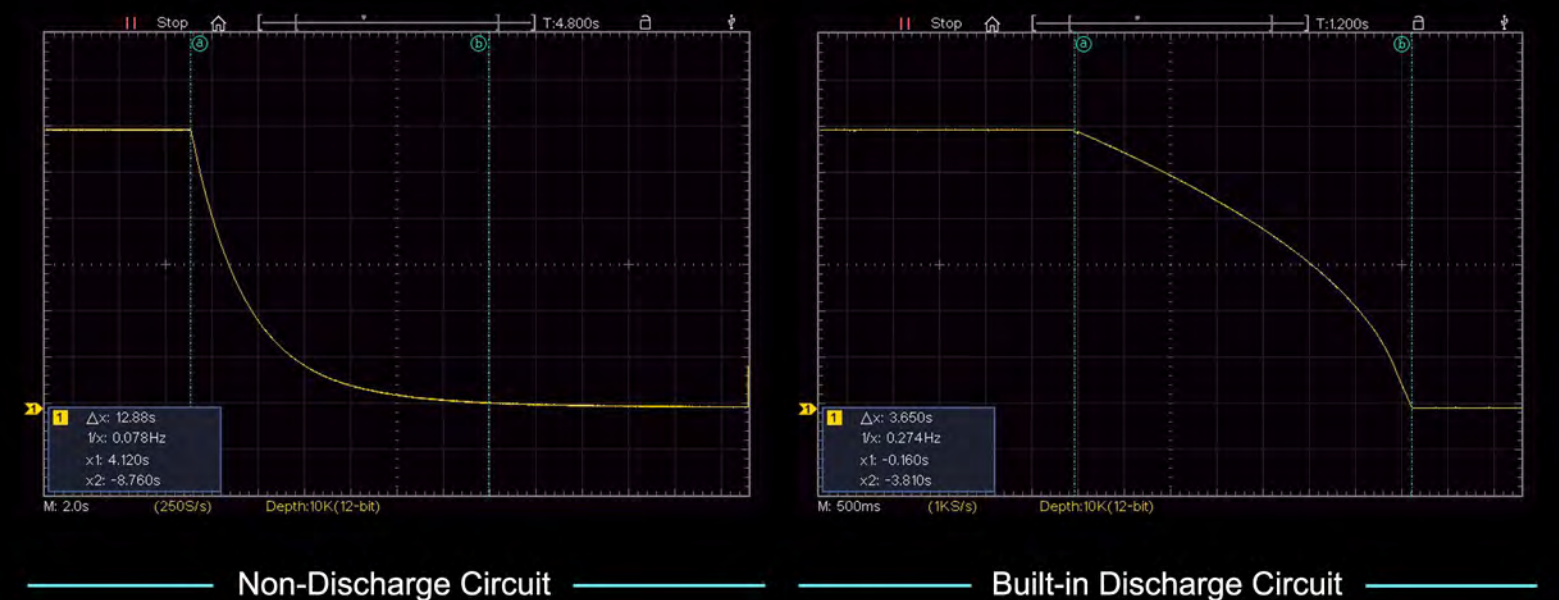
Nothing is More Important than Stability



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.

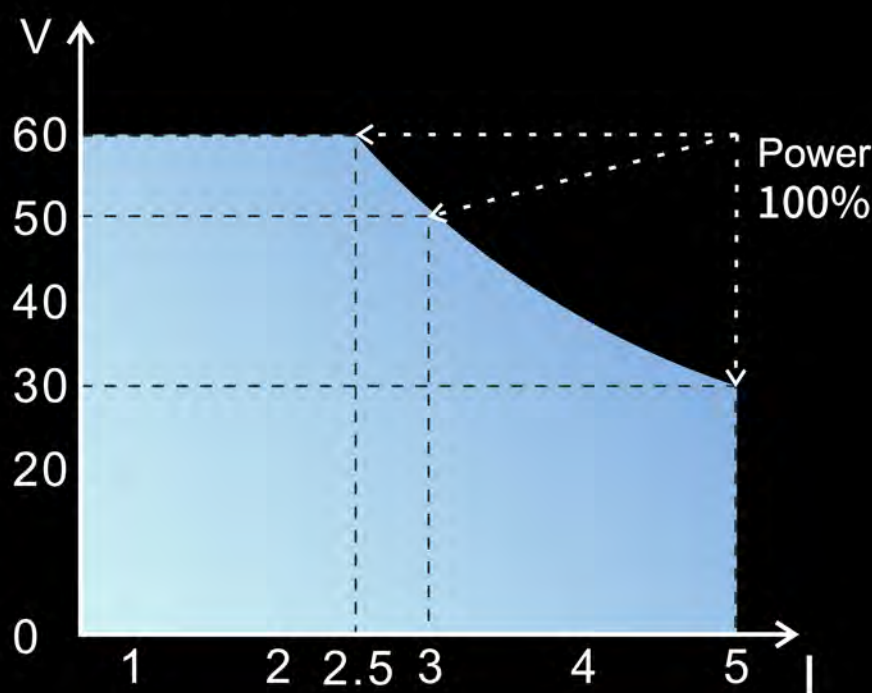


Suspass Performance, Expanding Possibilities

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	☒
2	30.00 v	01.500 A	00:00:10	☒
3	20.00 v	01.700 A	00:00:10	☒
4	15.00 v	01.200 A	00:00:10	☒
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		SPS3051	SPS6051	SPS3081	SPS6081	SPS8081
Input Characteristics		85V-265V (45~65Hz)				
Rated Output (0°C-40°C)	Voltage	0 - 30V	0 - 60V	0 - 30V	0 - 60V	0 - 80V
	Current	0 - 5A	0 - 5A	0 - 8A	0 - 8A	0 - 8A
	Power	150W	150W	120W	120W	120W
Regulation(CV)	Load	≤30mV	≤30mV	≤30mV	≤30mV	≤30mV
	Power	≤20mA	≤20mA	≤20mA	≤20mA	≤20mA
Regulation(CC)	Load	≤30mV	≤30mV	≤30mV	≤30mV	≤30mV
	Power	≤20mA	≤20mA	≤20mA	≤20mA	≤20mA
Setting Resolution	Voltage	10mV	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA	1mA
Readback Resolution	Voltage	10mV	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA	1mA
Setting Resolution (25°C±5°C)	Voltage	≤0.05% ± 20mV	≤0.05% ± 20mV	≤0.1% ± 20mV	≤0.1% ± 20mV	≤0.1% ± 20mV
	Current	≤0.05% ± 20mA	≤0.05% ± 20mA	≤0.2% ± 20mA	≤0.1% ± 20mA	≤0.1% ± 20mA
Readback Resolution (25°C±5°C)	Voltage	≤0.05% ±20mV	≤0.05% ±20mV	≤0.1% ±20mV	≤0.1% ±20mV	≤0.1% ±20mV
	Current	≤0.05% ±20mA	≤0.05% ±20mA	≤0.2% ± 20mA	≤0.1% ±20mA	≤0.1% ±20mA
Ripple & Noise(*)	Voltage(Vp-p)	≤30mV	≤30mV	≤30mV	≤30mV	≤30mV
	Voltage(rms)	≤5mV	≤4mV	≤5mV	≤10mV	≤10mV
	Current(Ap-p)	≤10mA	≤10mA	≤10mA	≤20mA	≤20mA
Temperature coefficient of output	Voltage	100ppm/°C				
	Current	200ppm/°C				
Temperature coefficient of readback value	Voltage	100ppm/°C				
	Current	200ppm/°C				
Response time (50%~100% reted road)		≤1.0ms				
Storage		4 groups				
Display Type		2.8 inches color LCD				
Display Resolution		240(horizontal) × 320(vertical) pixels				
Working Temperature		0°C~40°C				
Storage Temperature		-20°C~60°C				
Relative Humidity		≤90%RH; no condensation				
Communication Port		USB communication, compatible with SCPI communication protocol				
Dimension		82mm(Width)× 142mm(Height)×226mm(Depth)				
Weight		Approx. 1.8 kg			Approx. 1.3kg	

SPS

Product Accessories

- 1

Power Supply Main Device
- 2

Power Cord
- 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



Fujian Lilliput Optoelectronics Technology Co., Ltd.

No. 19, Heming Road, Lantian Industrial Zone Zhangzhou 363005 P.R. China
Tel : +86.596.213.0430 E-mail :info@owon.com.cn www.owon.com