

Power upgraded, Stronger output



SPM Series

Single Output Power Supply

- New 400W/500W Models Arrive inForce
- 2-in-1: Power Supply + 4 ½-Digit Multimeter
- Multiple Interfaces, More Compatibility

Model Comparison

Meet Your Diverse Testing Needs

NEW

Model		SPM3051	SPM6053	SPM3103	SPM6103	SPM8104	SPM8205
Channel		Single Channel Output					
Rated Output (0°C-40°C)	Voltage	0 - 30V	0 -60V	0 - 30V	0 -60V	0-80V	0-80V
	Current	0- 5A	0-5A	0-10A	0-10A	0-10A	0-20A
	Output Power	150W	300W	300W	300W	400W	500W
Setting Resolution		10mV/1mA					
Value Resolution		Voltage: $\pm 0.1\% \pm 20mV$; Current: $\pm 0.05\% \pm 10mA$					
Multimeter		4 $\frac{1}{2}$ digits, Voltage, Current, Capacitance, Resistance, Continus, Diode(D-2V) test					
Interface		USB Device, USB Host (5V 1A)				Multiple interface options:USB Device(default)/RS232/LAN (RS232/LAN only for SPM8104&SPM8205)	
Working Temperature		0-40°C					

DC Power supply + Multimeter, make work more convenient



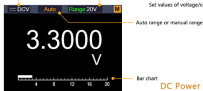
DC Power supply interface

Display cumulative running time Actual output power

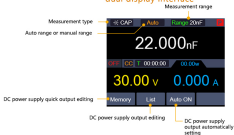


Multimeter interface

Measurement type Measurement range



DC Power supply & Multimeter dual display interface



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.



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

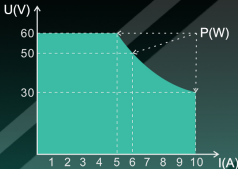
4 groups of Memory shortcut parameters for quick output

ON	CV	T	00:00:31	06.80w	OS
	U	I	T	YIN	
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	02.00v	01.100A	00:00:10	☐	
Set		Limit			
30.00 v		10.065 A		32.00 v 10.200 A	

ON	CV	T	00:00:16	06.80w	OS
	U	I	CVP	OCP	
M1	05.12v	05.000A	32.00v	10.200A	
M2	14.97v	04.900A	16.00v	05.100A	
M3	07.60v	02.000A	08.00v	02.600A	
M4	15.60v	02.000A	32.00v	03.400A	
Set		Limit			
30.00 v		10.065 A		32.00 v 10.200 A	

Small size, Sufficient power

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.



Schematic diagram of power supply constant power
(take SPM6103 for instance)

Integrated with high resolution multimeter, convenient and easy to use

The integrated 4 1/2 digits multimeter can test voltage, current, resistance, capacitance, diode and continuity.



Multiple functions to meet your different testing needs

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



Multi-Interface Support, Enhanced Compatibility

Supports USB Device communication and RS232/LAN (only for SPM8104 & SPM8205) Industrial standard interfaces, compatible with SCPI protocol. Enables remote control and multi-device networking, meeting high-precision control needs for automated testing and system integration on integration on industrial production lines.



LAN interface
RS232 interface
USB Device interface

Note: Only one interface can be selected.

Product Information



Multiple interface options: USB Device (default)/RS232/LAN (RS232/LAN only for SPMS104&SPMS205)

+ Performance Specifications

Model	SPM3051	SPM6053	SPM10103	SPM6103	SPM8104	SPM8205
Channel	Single Channel Output					
Total Output Power	150W	300W			400W	500W
Channel Output	0 ~ 30V / 0 ~ 5A	0 ~ 60V / 0 ~ 5A	0 ~ 30V / 0 ~ 10A	0 ~ 60V / 0 ~ 10A	0 ~ 80V / 0 ~ 10A	0 ~ 80V / 0 ~ 20A
Display	2.8 inch color LCD display					Multiple interface options: USB Device (default)/RS232/LAN (RS232/LAN only for SPM8104&SPM8205)
Interface	USB Device, USB Host (5V 1A)					
Dimension (W x H x D)	82mm(W) x 142mm(H) x 226mm(D)					
Working Temperature	0 ~ 40℃					
Weight	Approx. 1.5kg					

+ DC Power Specifications

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

Model		SPM3051	SPM6053	SPM10103	SPM6103	SPM8104	SPM8205
Rated Output (0°C~40°C)	Voltage	0 ~ 30V	0 ~ 60V	0 ~ 30V	0 ~ 60V	0~80V	0~80V
	Current	5A	5A	10A	10A	0~10A	0~20A
	Output Power	150W	300W	300W	300W	400W	500W
Load Regulation	Voltage	±30mV				±20mV	
	Current	±20mA				±10mA	
Power Regulation	Voltage	±30mV				±20mV	
	Current	±20mA				±10mA	
Setting Resolution	Voltage	10mV					
	Current	1mA					
Readback Resolution	Voltage	10mV					
	Current	1mA					
Value Resolution (within 12 months) (25°C±5°C)	Voltage	±0.1% ± 20mV			±0.1% ± 30mV	±0.05% ± 20mV	
	Current	±0.05% ± 10mA				±0.05% ± 20mA	
Readback Value Resolution (25°C±5°C)	Voltage	±0.1% ± 20mV			±0.1% ± 30mV	±0.05% ± 20mV	
	Current	±0.1% ± 10mA				±0.05% ± 20mA	
Ripple/Noise(*)	Voltage(Vp-p)	±30mVp-p			±50mVp-p	±50mVp-p	
	Voltage (rms)	±3mVrms			±5mVrms	±20mA	
Output temperature coefficient (0°C~40°C)	Voltage	100ppm/°C					
	Current	200ppm/°C					
Readback temperature coefficient	Voltage	100ppm/°C					
	Current	200ppm/°C					
Response Time(rated load)		±1.0ms				±5.0ms	
Storage(0%~90%)		4 groups of data					

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

+ Multimeter Specifications

Full Scale Reading	4½ digits	Auto Range	✓
Measure	Voltage, Current, Capacitance, Resistance, Continues , Diode(0~2V) test		
Capacitance	20.000nf,200.00nf,2.0000uf,20.000uf,200.00uf, 2.0000mf: ±(3.0%±10digit)		
Voltage	DCV: 200.00mV: ±(0.3%±10digit), 2.0000V, 20.000V, 200.00V,1000V: ±(0.3%±5digit),		
	ACV: 200.00mV, 2.0000V, 20.000V, 200.00V: ±(0.8%±10digit) 750V: ±(1%±10digit)		
Current	DCA: 200.00mA±(0.8%±10digit),10.000A: ±(2.5%±10digit)		
	ACA: 200.00mA:±(1%±10digit),10.000A: ±(2.8%±10digit)		
Impedance	200.00Ω,2.0000kΩ,20.000kΩ,200.00kΩ,2.0000MΩ: ±(0.8%±10digit),20.000MΩ: ±(1%±3digit)		
	100MΩ: ±(5%±10digit)		

Packing list

Main Device



Quick Guide



Power Cord



Fuse



Ground Wire



Multimeter Lead



Banana head line
(Optional)



Banana head to
crocodile clip connection line
(Optional)

