



SP Series

Programmable DC power supply

- + Small body for easy carry
- + 150W/300W maximum output power
- + High resolution: 10mV / 1mA
- + Low ripple/noise
- + Over voltage/over current protection
- + Intelligent temperature control fan cooling
- + 3.7-inch TFT LCD display
- + Support RS232 digital communication
- + Support SCPI



+ Performance Specifications

Model	SP3051	SP3101	SP6101	SP6053	SP3103	SP6103
Channel	Single Channel Output					
Total Output Power	150W			300W		
Channel Output	0 - 30V / 0 - 5A	0 - 30V / 0 - 10A	0 - 60V / 0 - 10A	0 - 60V / 0 - 5A	0 - 30V / 0 - 10A	0 - 60V / 0 - 10A
Display	3.7 inch color LCD display					
Dimension	117mm(L)*194mm (H) *295mm (D)					
Weight	Approx. 3.0kg					
Interface	RS232					

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

Model		SP3051	SP3101	SP6101	SP6053	SP3103	SP6103
Rated Output (0°C-40°C)	Voltage	0 - 30V	0 - 30V	0 -60V	0 -60V	0 - 30V	0 -60V
	Current	5A	10A	10A	5A	10A	10A
	Output Power	150W	150W	150W	300W	300W	300W
Load Regulation	Voltage	≤30mV					
	Current	≤30mA					
Power Regulation	Voltage	≤20mV					
	Current	≤20mA					
Setting Resolution	Voltage	10mV					
	Current	1mA					
Readback Resolution	Voltage	10mV					
	Current	1mA					

Model		SP3051	SP3101	SP6101	SP6053	SP3103	SP6103
Value Resolution (within 12 months) (25°C±5°C)	Voltage	≤0.1% ± 20mV		≤0.1% ± 30mV	≤0.1% ± 20mV		≤0.1% ± 30mV
	Current	≤0.05% ± 10mA					
Readback Value Resolution (25°C±5°C)	Voltage	≤0.1% ± 20mV		≤0.1% ± 30mV	≤0.1% ± 20mV		≤0.1% ± 30mV
	Current	≤0.1% ± 10mA					
Ripple/Noise (20Hz-20MHz)	Voltage (Vp-p)	≤30mVp-p		≤50mVp-p	≤30mVp-p		≤50mVp-p
	Voltage (rms)	≤3mVrms		≤5mVrms	≤3mVrms		≤5mVrms
	Current (rms)	≤30mA _{p-p}					
Output temperature coefficient (0°C-40°C)	Voltage	≤0.3% ± 10mV		≤0.3% ± 20mV	≤0.3% ± 10mV		≤0.3% ± 20mV
	Current	≤0.3% ± 10mA	≤0.3% ± 20mA				
Readback temperature coefficient	Voltage	≤0.3% ± 10mV		≤0.3% ± 20mV	≤0.3% ± 10mV		≤0.3% ± 20mV
	Current	≤0.3% ± 10mA	≤0.3% ± 20mA				
Response Time		≤1.0ms					
Storage		5 groups of data					
Working Temperature		0-40°C					

The above parameters are subject to change without further notice, please refer to the website update.

+ Application

Military R&D Quality Inspection Circuit Functional Testing Automotive Circuit Testing Education and Technical Training Electronic component testing and aging experiment Monitoring battery charging curve

+ Accessories

The picture is for reference only, please refer to the actual product



Power Cord



User Manual



Fuse



Test Leads (optional)