

SP Series Single Channel Digital DC Power Supply



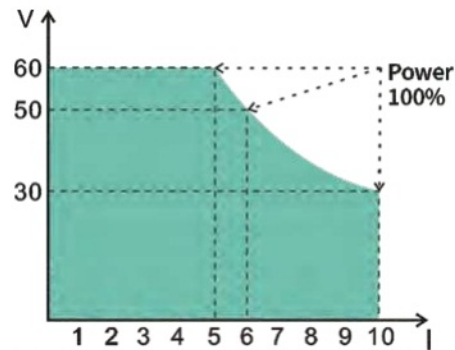
- + Small body for easy carry
- + 150W/300W maximum output power
- + Constant power design, providing a combination of multiple ranges of voltage and current settings
- + Low ripple/noise
- + Over voltage/over current protection
- + Intelligent temperature control fan cooling
- + Support RS232 digital communication

1. Large LCD Display



Conventional display example

2. Constant power design provides a combination of multiple ranges of voltage and current settings, allowing flexible configurations of higher voltage and larger current for users within the rated power range.



Schematic diagram of power supply constant power (take SP6103 for instance)

3. Original voltage/current curve monitoring function

Suitable for cell phone and notebook repair, PCB aging test, battery charging



Voltage curve



Current curve

4. Constant voltage/constant current mode to protect circuit devices

CV: Constant Voltage output
CC: Constant Current output



5. Support programming output by PC software via RS232, SCPI digital communication function



The specifications based upon the instrument having run for at least 30 minutes continuously, under the specified operating environment.

Model		SP3051	SP3101	SP6101	SP6053	SP3103	SP6103
Output Ratings (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			300W		
Load Regulation	Voltage	≤30mV					
	Current	≤30mA					
Line Regulation	Voltage	≤20mV					
	Current	≤20mA					
Settings Resolution	Voltage	10mV					
	Current	1mA					
Read Back Resolution	Voltage	10mV					
	Current	1mA					
Settings Accuracy (within 12 months) (25°C±5°C)	Voltage	≤0.1% ± 20mV		≤0.1% ± 30mV		≤0.1% ± 20mV	≤0.1% ± 30mV
	Current	≤0.1% ± 10mA					
Read Back Accuracy (25°C±5°C)	Voltage	≤0.1% ± 20mV		≤0.1% ± 30mV		≤0.1% ± 20mV	≤0.1% ± 30mV
	Current	≤0.1% ± 10mA					
Noise and Ripple (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			
Read Back 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					
Working Temperature		0-40°C					
Display Type		3.7 inch TFT LCD display					
Dimension (W x H x D)		117x 194 x 295 (mm)					
Device Weight		3 kg					
Communication Interface		RS232					

Specifications subject to change without prior notice.

+ Accessories

The accessories subject to final delivery.



Power Cord



Quick Guide



Fuse



Test Leads
(optional)



RS232 to USB Module
(optional)

