

SP Series Single Channel Digital DC Power Supply



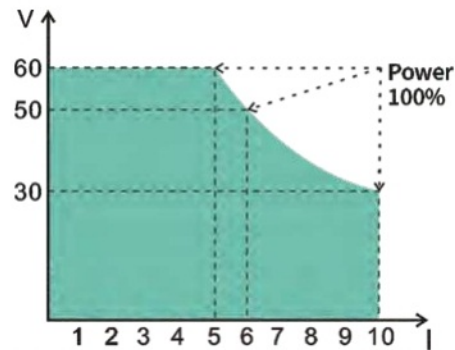
- + Small body for easy carry
- + 150W/300W maximum output power
- + Constant power design, providing a combination of multiple ranges of voltage and current settings
- + Low ripple/noise
- + Over voltage/over current protection
- + Intelligent temperature control fan cooling
- + Support RS232 digital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



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)