



SP Series

Single Channel Digital
DC Power Supply

3.7"

LCD Display



Supports SCPI

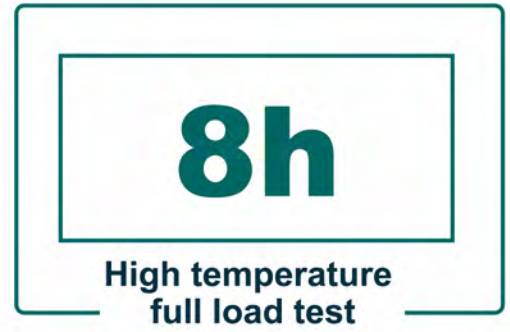
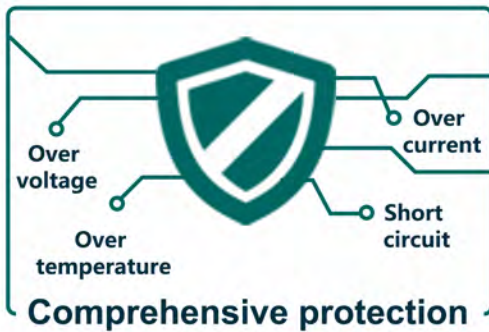


Current/Voltage
Change Record Curve

High
Resolution
at 10mV/1mA

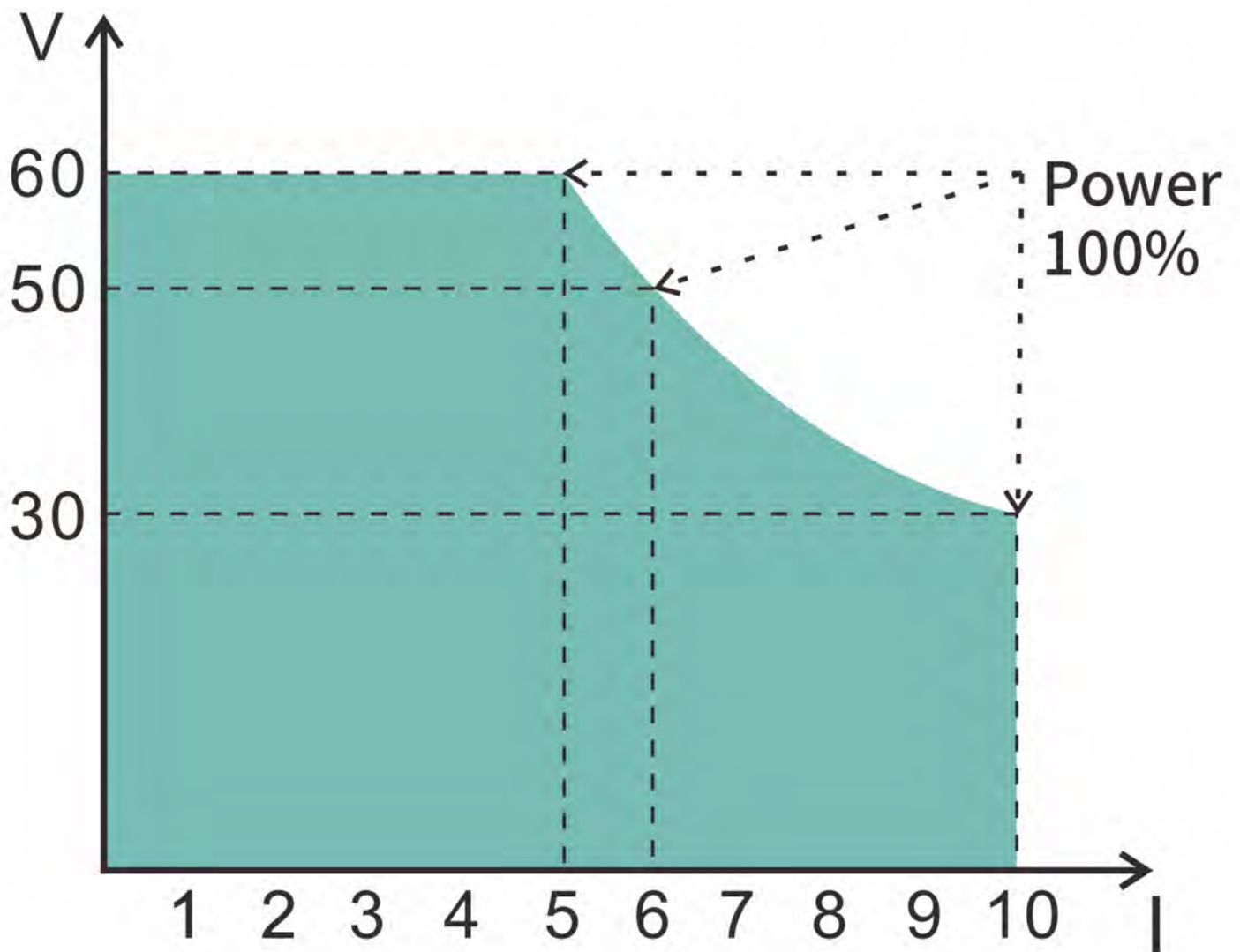
- Small body for easy carry
- 150W/300W maximum output power
- Constant power design, providing a combination of multiple ranges of voltage and current settings
- Low ripple/noise
- Over voltage/over current protection
- Intelligent temperature control fan cooling
- Support RS232 digital communication

FULL POWER



| Model | SP3051 | SP3101 | SP6101 | SP3103 | SP6053 | SP6103 |
|---------------|--------|---------|---------|---------|--------|---------|
| Output Ranges | 30V/5A | 30V/10A | 60V/10A | 30V/10A | 60V/5A | 60V/10A |
| Output Power | 150W | | | 300W | | |

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.

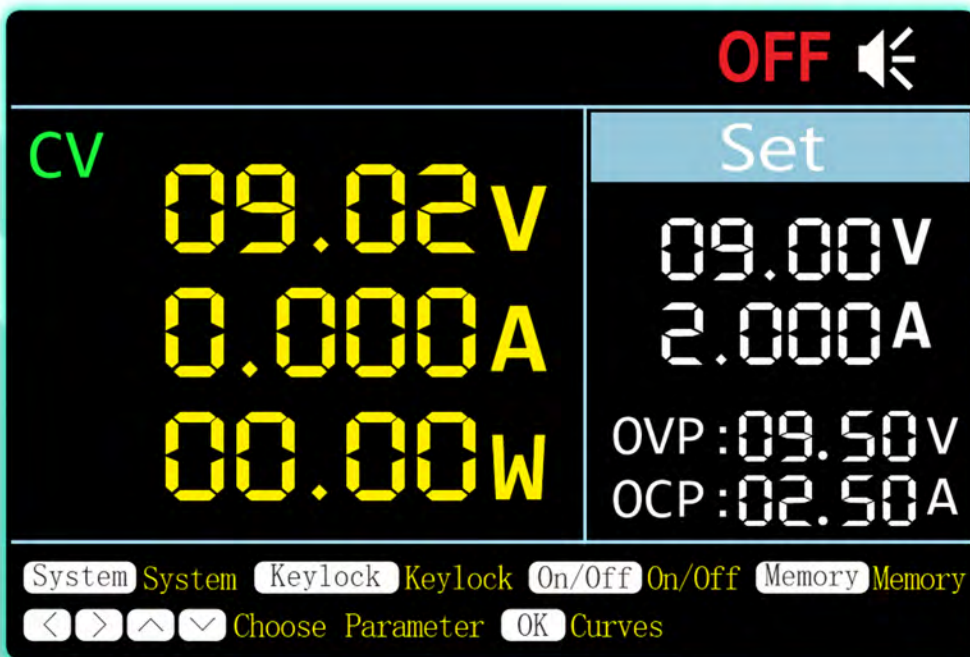


Schematic diagram of power supply constant power (take SP6103 for instance)

Large LCD Display

Easy to read parameters

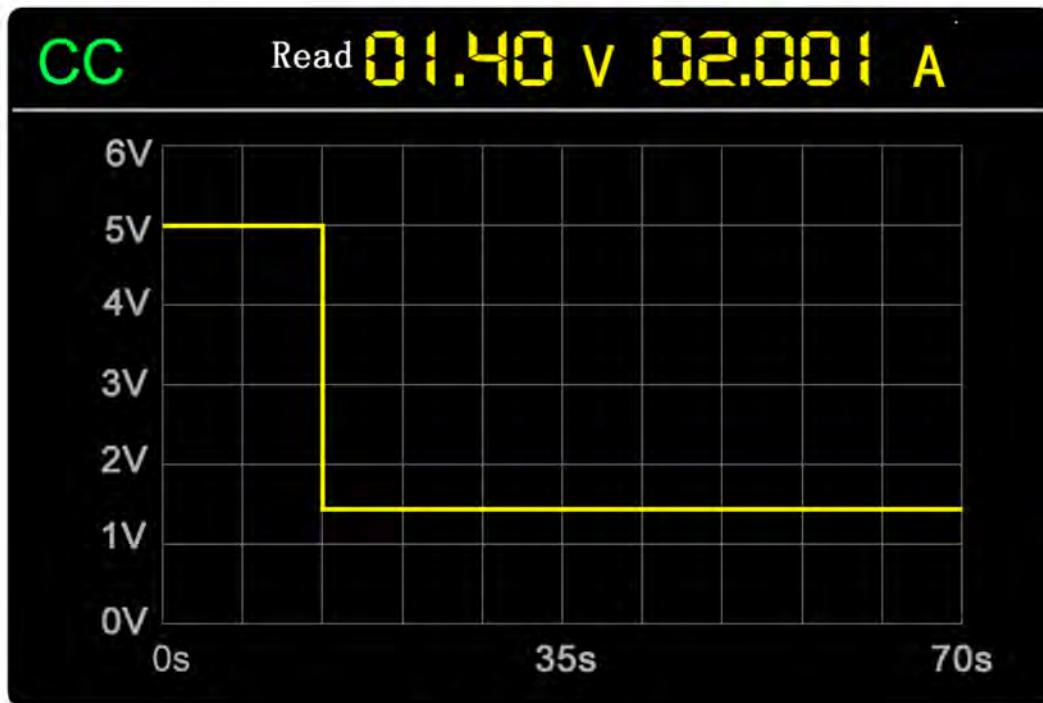
- HD LCD display
(480 × 320 pixels)



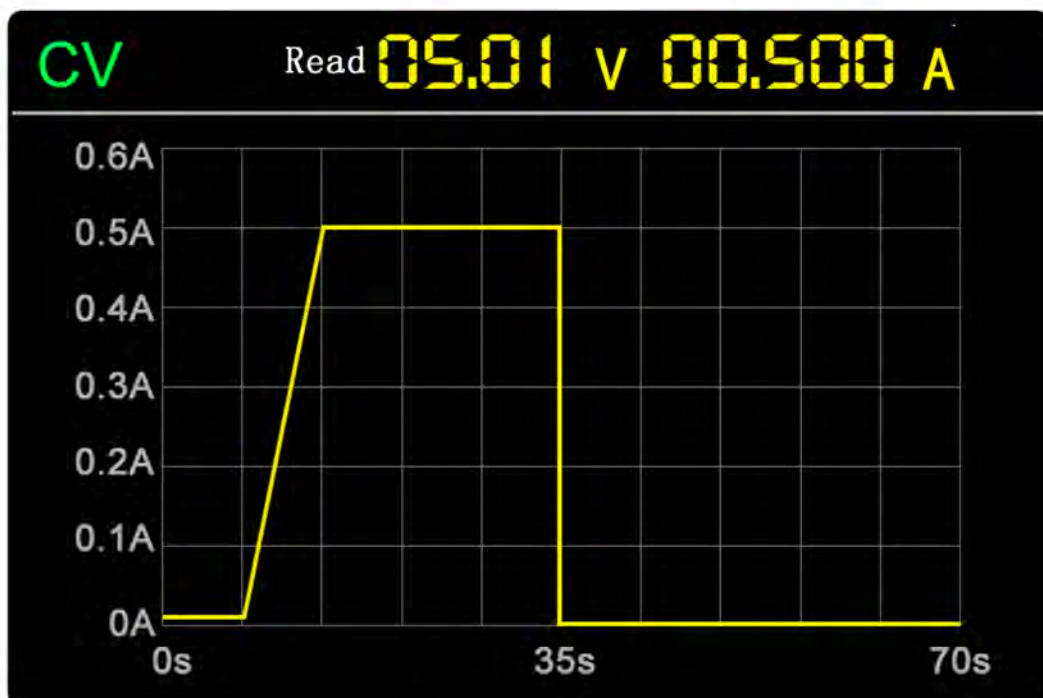
▲ Conventional display example*

Original voltage/current curve monitoring function

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

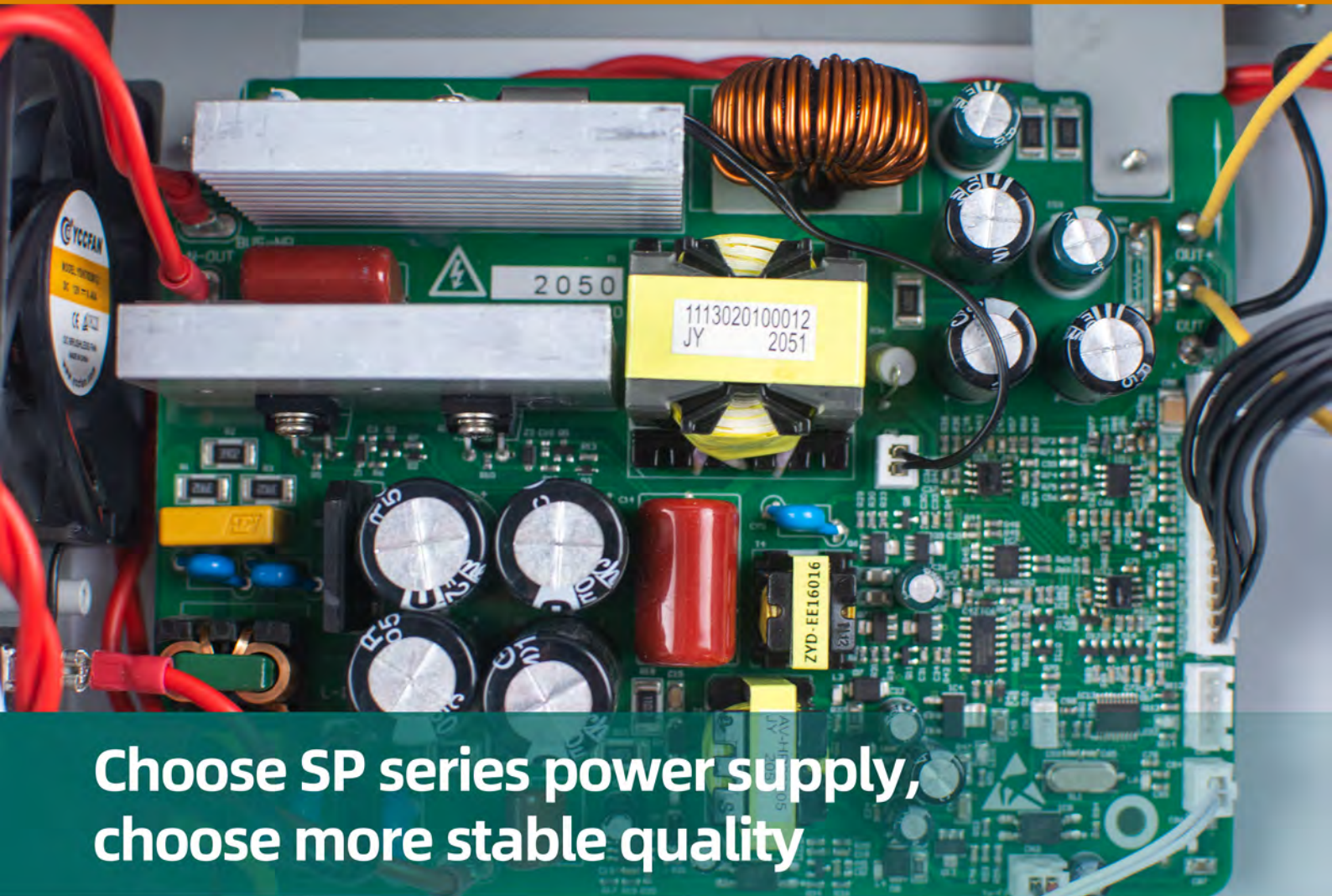
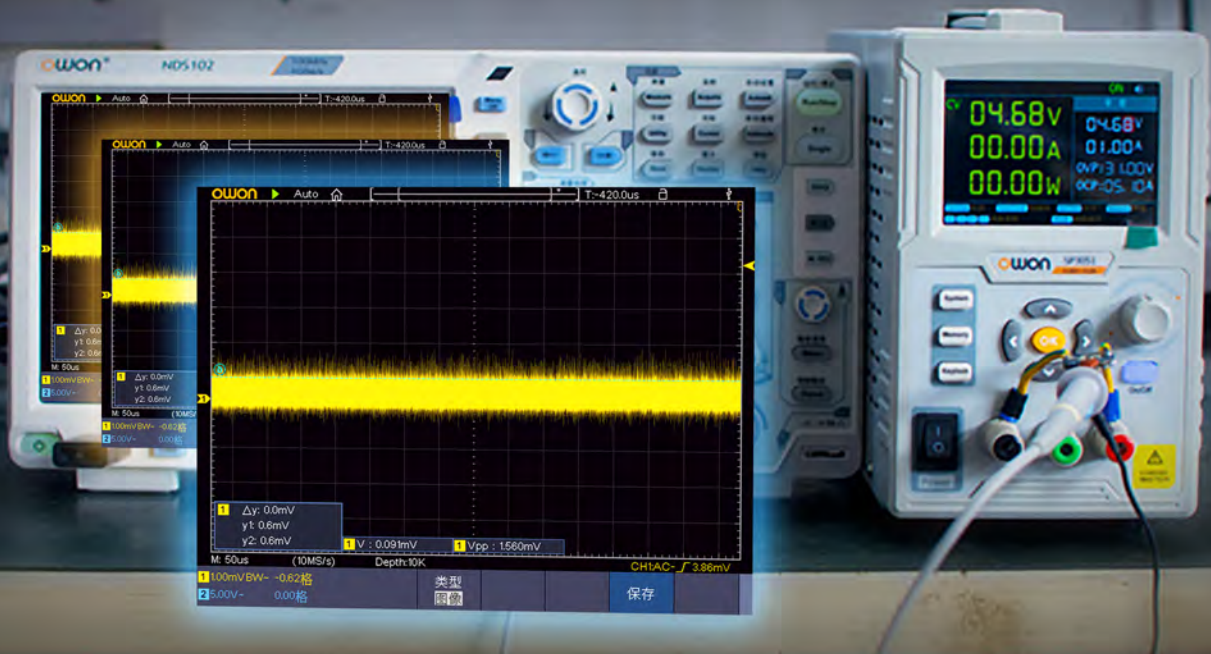


Voltage curve



Current curve

Low ripple and noise to meet the requirements for high accuracy testing



**Choose SP series power supply,
choose more stable quality**

Intelligent temperature control fan heat dissipation,
reduce noise interference, and run more stable

Save up to 5 sets of parameters in memory for easy recall.

OFF 🔊 ✕

| Memory | Edit | |
|---|------------------------------|------------------------------|
| <input type="checkbox"/> M1: | SET: $\frac{12.00V}{01.90A}$ | O.P: $\frac{03.50V}{01.60A}$ |
| <input checked="" type="checkbox"/> M2: | SET: $\frac{05.00V}{02.00A}$ | O.P: $\frac{05.50V}{02.10A}$ |
| <input type="checkbox"/> M3: | SET: $\frac{09.00V}{02.00A}$ | O.P: $\frac{09.50V}{02.50A}$ |
| <input type="checkbox"/> M4: | SET: $\frac{12.00V}{02.50A}$ | O.P: $\frac{12.50V}{02.60A}$ |
| <input type="checkbox"/> M5: | SET: $\frac{24.00V}{03.00A}$ | O.P: $\frac{24.50V}{03.50A}$ |

Memory Exit < > Choose Menu
^ v Choose Parameter OK Confirm

Constant voltage/constant current mode to protect circuit devices

CV: Constant Voltage output
CC: Constant Current output

ON 🔊 ✕

| CV | Set |
|--------|-------------|
| 14.39V | 14.39V |
| 00.06A | 02.05A |
| 00.88W | OVP: 31.00V |
| | OCP: 05.10A |

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



Rigorous testing, 2-year warranty, safety



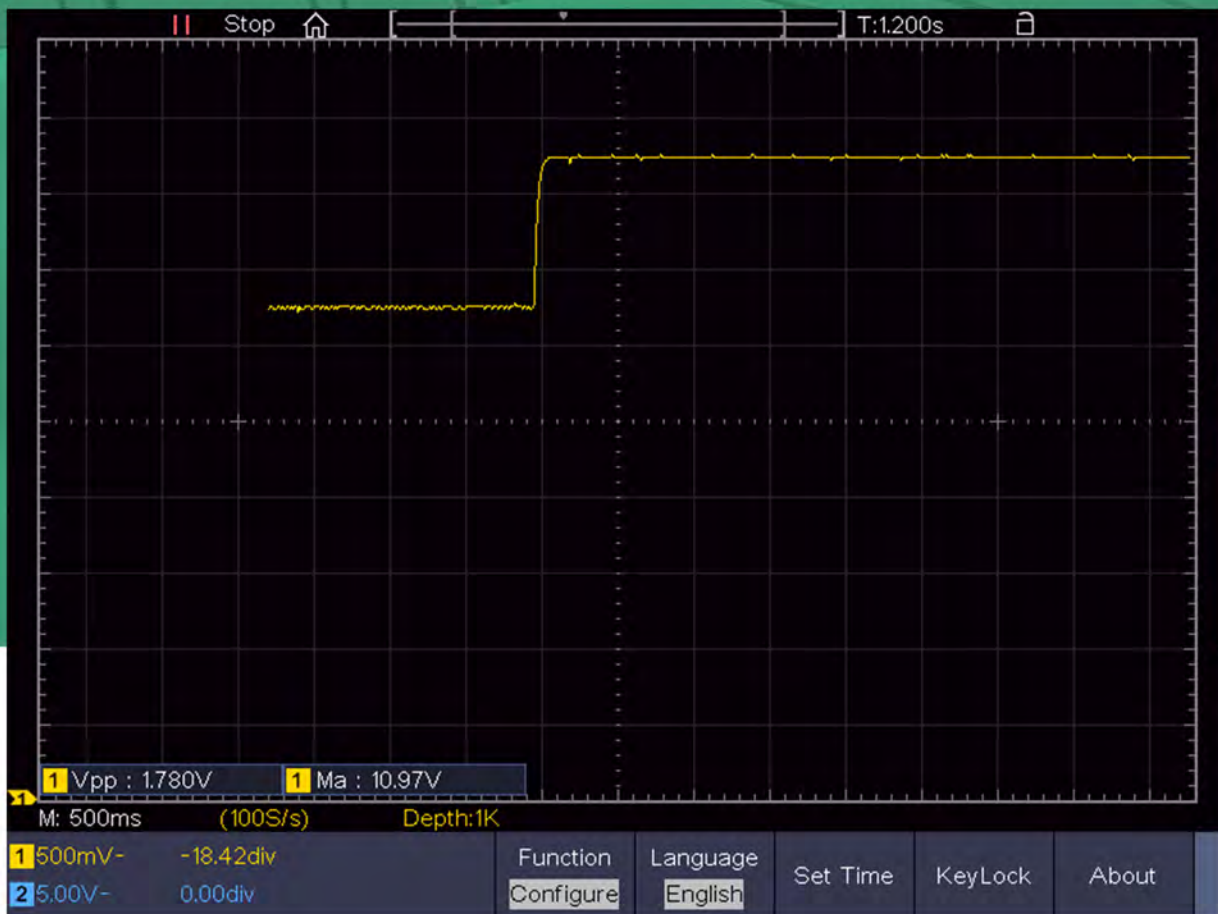
Salt spray test



High-low temperature test



Calibration equipment



No overshoot in power switching, effectively protecting the circuit

3.7 inch (480 x 320 pixel) HD LCD Display



System setting

Memory Key

Key lock

Main switch

Direction and confirm key

Voltage/Current adjust knob

Output ON/OFF

Channel output terminals



110V/220V Power switch

Power socket

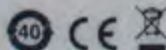
Fuse

Cooling fan

RS232 communication interface

| Voltage | Fuse | Line Rating |
|-------------|-----------|-----------------------|
| 100-120V AC | 250V.F10A | 50-60 Hz 600 Watts |
| 200-240V AC | 250V.F5A | 800 VA Max |

RS - 232



PRODUCT SPECIFICATIONS

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 | | | | | |
| 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 | | | | | |
| 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.

PRODUCT ACCESSORY

Dimension (W×H×D): 117 x 194 x 295 (mm)
Device Weight: Approx. 2.3 kg

