

2.4" 8CHN 18650 Capacity Tester Module

Safety Tips (very important!!!)

1. DC5V/10A power supply with sufficient power must be used for power supply; otherwise, the equipment cannot operate normally due to insufficient power supply
2. The 18650 battery holder is only applicable to flat-head 18650 battery test. It is not applicable to pointed-head 18650 or other specifications of battery test. Before use, adjust the spring piece and the tightness with pointed-nose pliers.
3. This equipment is not suitable for charging of lithium iron phosphate battery. The lithium iron phosphate battery for test can only operate in discharge mode. Charging, automatic and active modes are prohibited.
4. No power-on test is allowed in case of damaged or leaking battery.
5. The active mode belongs to forced charging mode, which shall not be used by non-professional personnel and personnel shall not leave the site during use.
6. Heat will be generated during charging and discharging. Keep away from inflammables during use!

Tutorial Contents

1. Technical parameters
2. Illustration of mode flow
3. Product display
4. Interface display
5. Setting method
6. Steps to use

Technical parameters

Name: 2.4" TFT 8-channel 18650 battery tester

Working voltage: DC5V 10A (standard bare machine, Without power supply),
over-voltage necessarily burning machine

Power supply interface: ①: DC5.5 t interface, ② 5V positive and
negative electrode welding spot

Reverse connection protection of power supply: reverse connection
protection is provided, and reverse connection of power supply is prohibited

Channel type: 8 independent channels, independent of each other and
independent of each other

Channel synchronization: support 8-channel setting synchronization and set
parameters of each channel separately

Operating mode introduction:

① AUTO~Automatic mode

② CHG~Charging mode

③ DSG~Discharge mode

④ ACTI~Mode of activation

Charging current: each channel is independent of about 1A non-constant
current charging, and the charging current is not adjustable.

Charging (stop) voltage: 3.7V, 3.8V, 3.9V, 4.0V, 4.1V, 4.2V, 6 gears adjustable

Recharge (stop) voltage: 3.0V, 3.1V, 3.2V, 3.3V, 3.4V, 3.5V, 3.6V, 3.7V, 3.8V,
3.9V, 4.0V, 4.1V, 4.2V, 13 gears adjustable

Charging end current: 100mA, 200mA, 300mA, adjustable

Discharge current: each channel is independent of about 1A non-constant current discharge, and the discharge current is not adjustable.

(Discharge) Stop voltage: 2.0V, 2.1V, 2.2V, 2.3V, 2.4V, 2.5V, 2.6V, 2.7V, 2.8V, 2.9V, 3.0V, 3.1V, 3.2V, 3.3V, 3.4V, 3.5V, 3.6V, 17 gears adjustable.

Standstill time: 1~5min adjustable.

Channel status preview: support 1-screen preview of 8-channel status

Single channel detail display: support

Single-channel charging and discharging curve display: support

Internal resistance detection: DC two-wire method for internal resistance measurement, only used for sorting and analogy of the same batch

Heat dissipation mode: active heat dissipation

Overheat protection: support

Cyclic charge and discharge: only one charge - discharge - charge cycle is supported in automatic mode, and multiple cycles are not supported.

External test: it supports external discharge through 2P terminal. A single channel only supports one of the battery base or external test, and cannot use the battery base and external battery for test at the same time.

Reverse connection protection of battery: reverse connection protection is provided, and reverse connection of battery is prohibited.

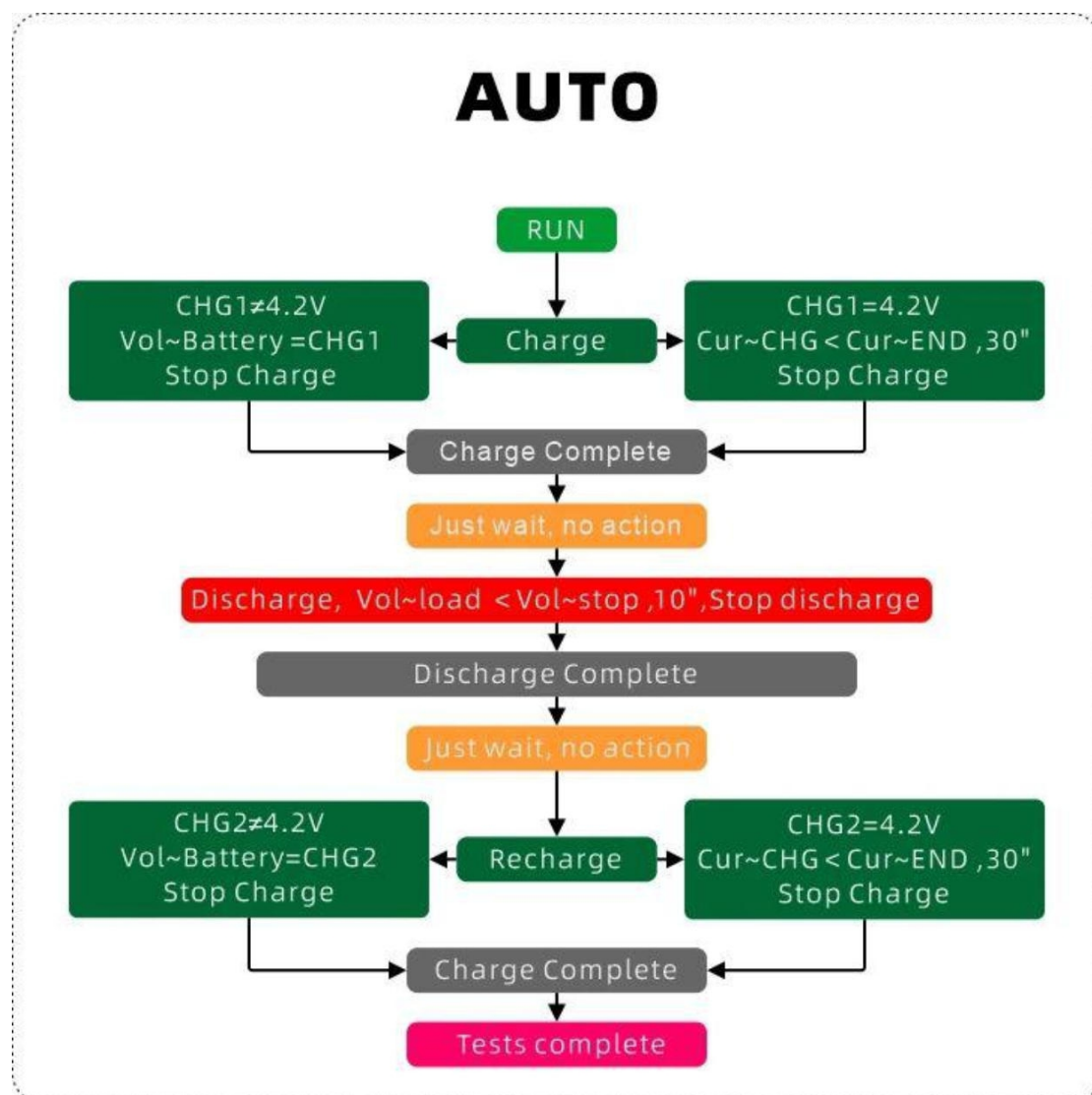
Product size: 37 × 110 × 310mm

Packing size: 60 × 112 × 335mm

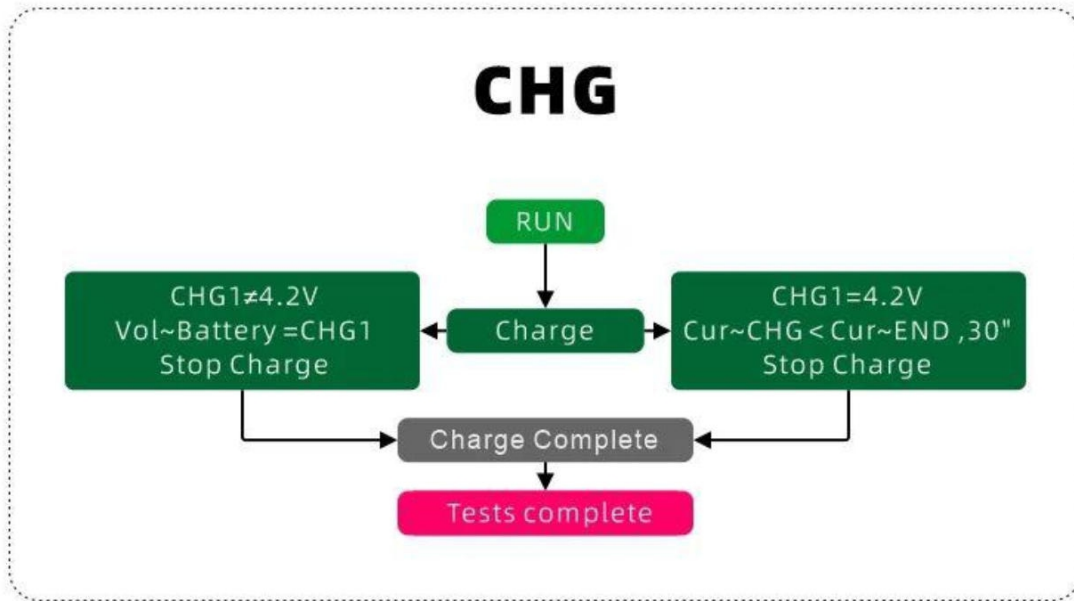
Product weight: 410g (bare machine)/500g (including packaging)

2. Illustration of mode flow

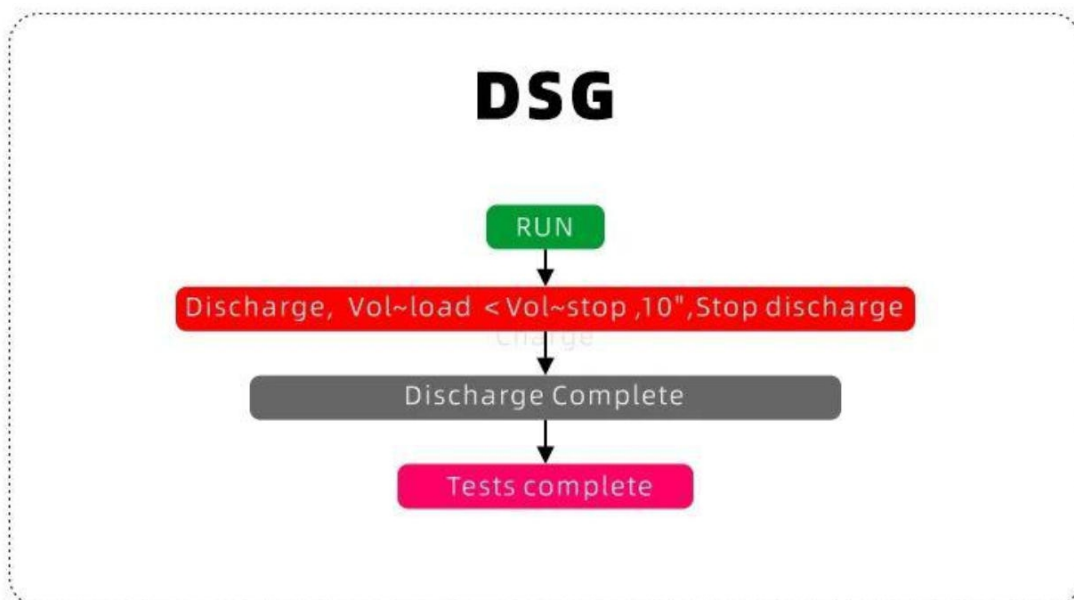
2.1、 AUTO



2.2、CHG



2.3、DSG



2.4、ACTI(Only for professional use, not allowed to leave the site during use)

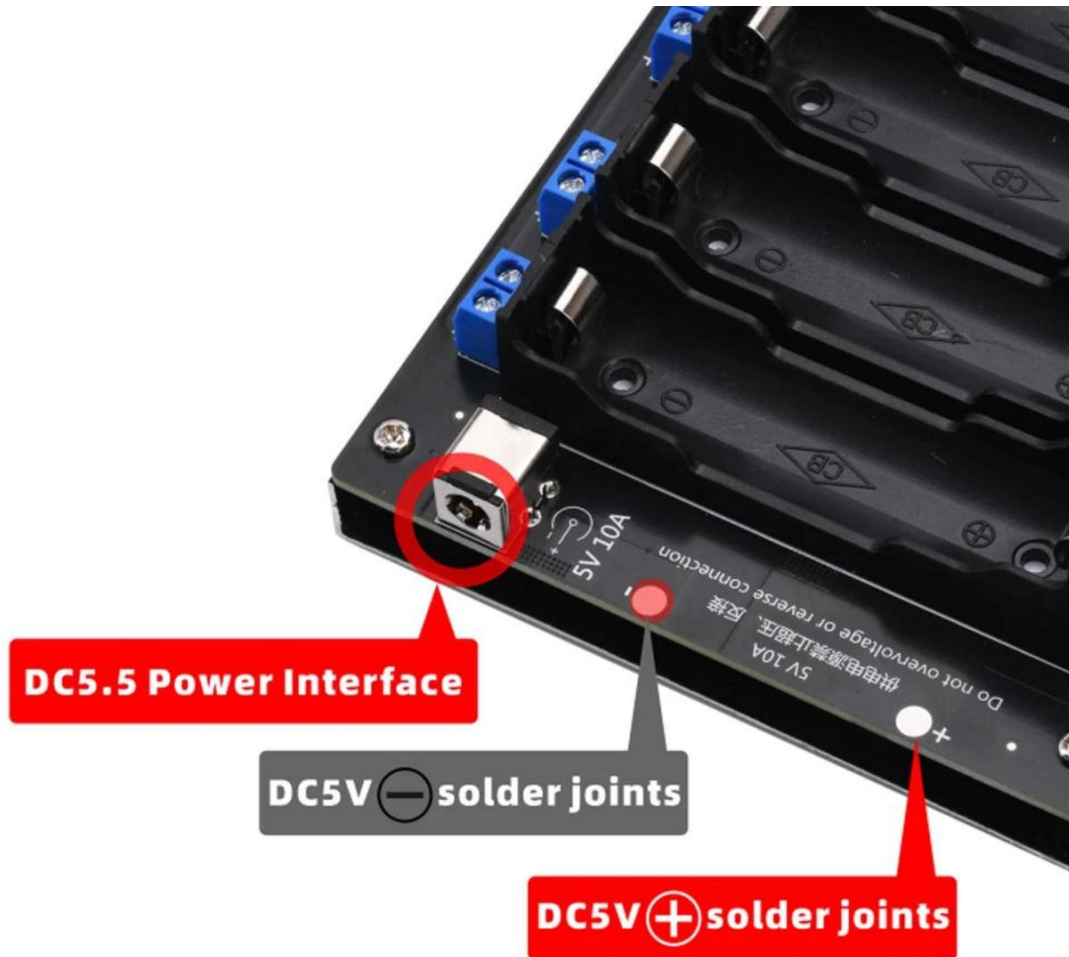


3.Product display

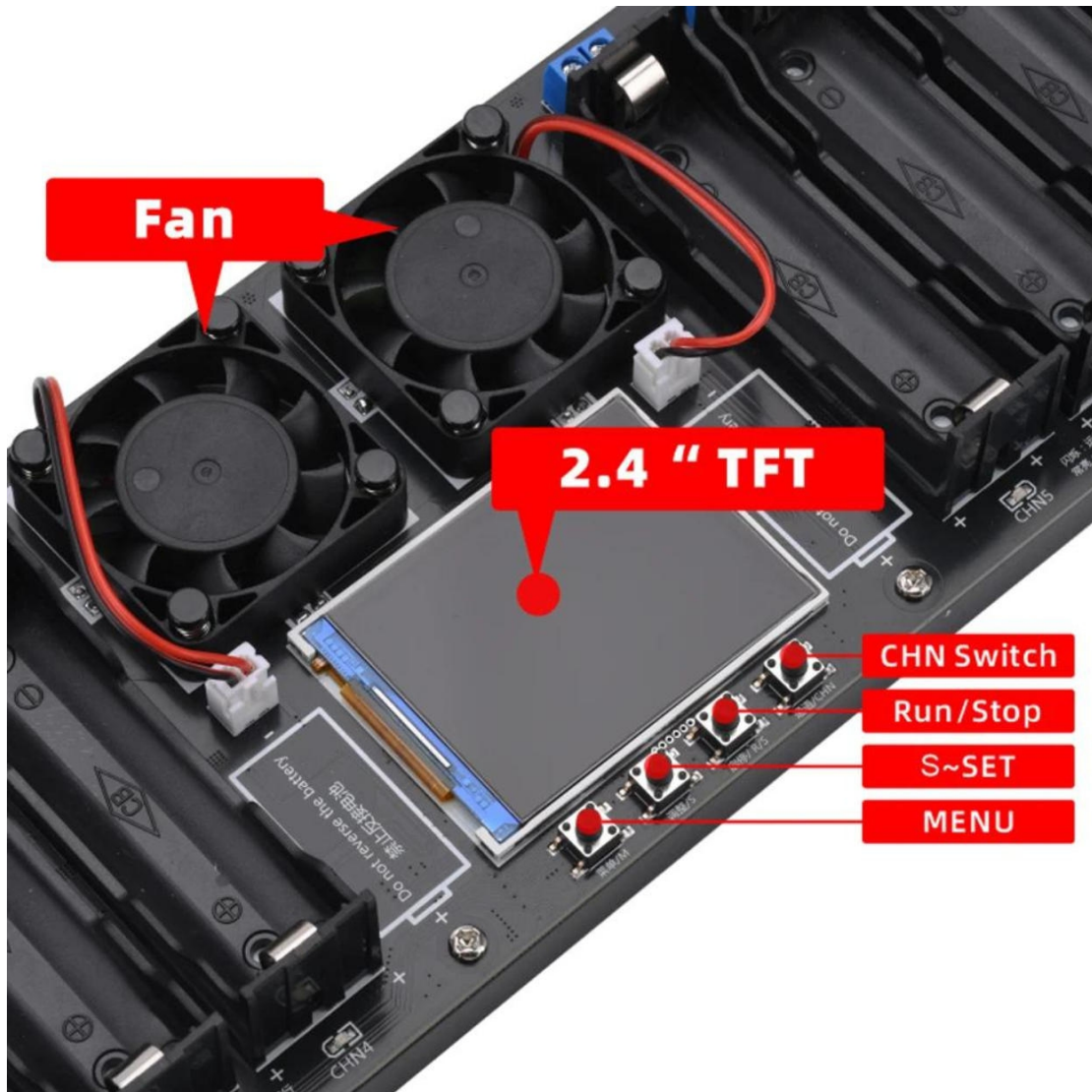
3.1、Front and back



3.2、Power supply interface



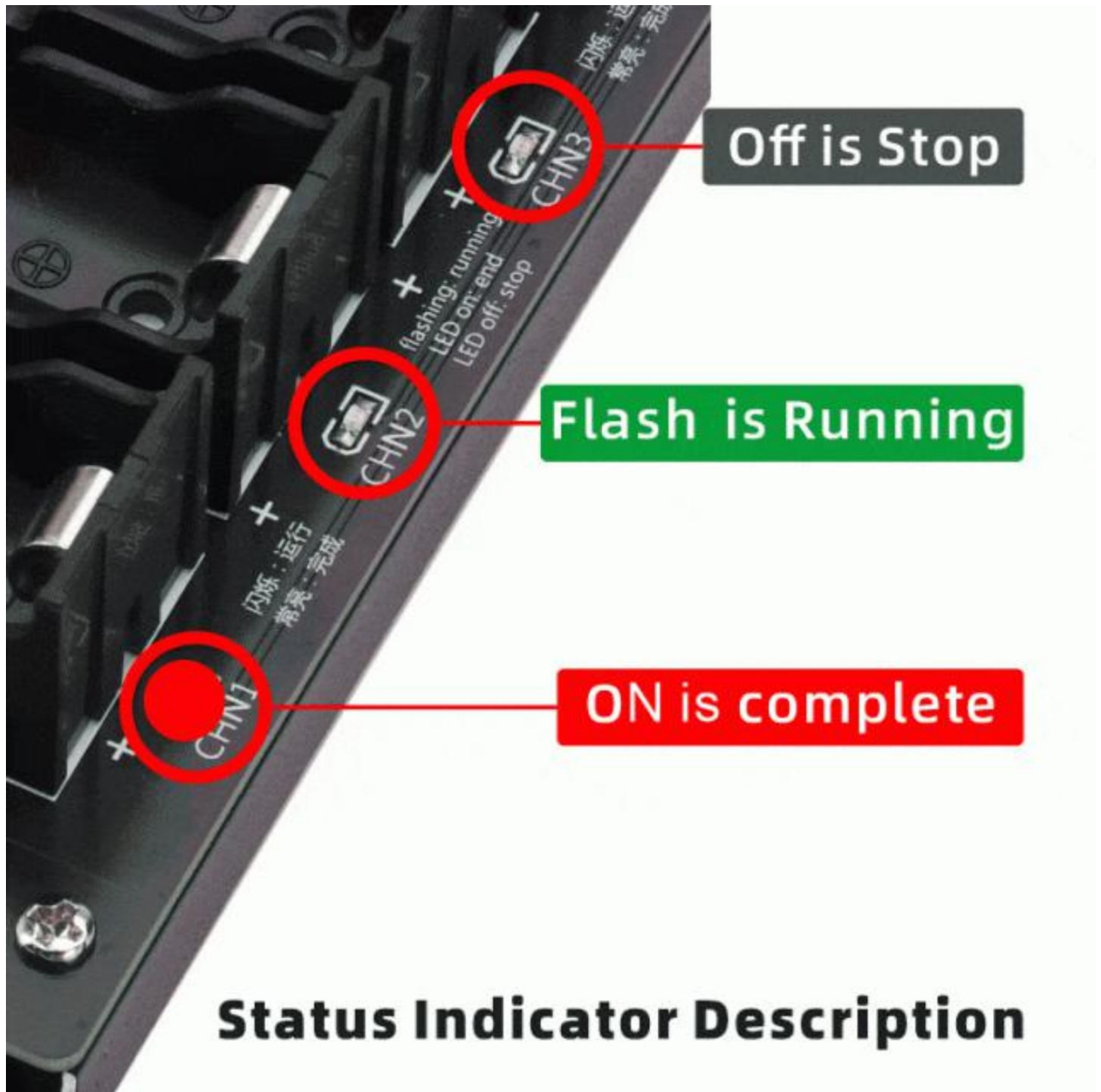
3.3、Key, screen, cooling fan



3.4、 Battery holder and expansion terminal



3.5、Working indicator and status indication



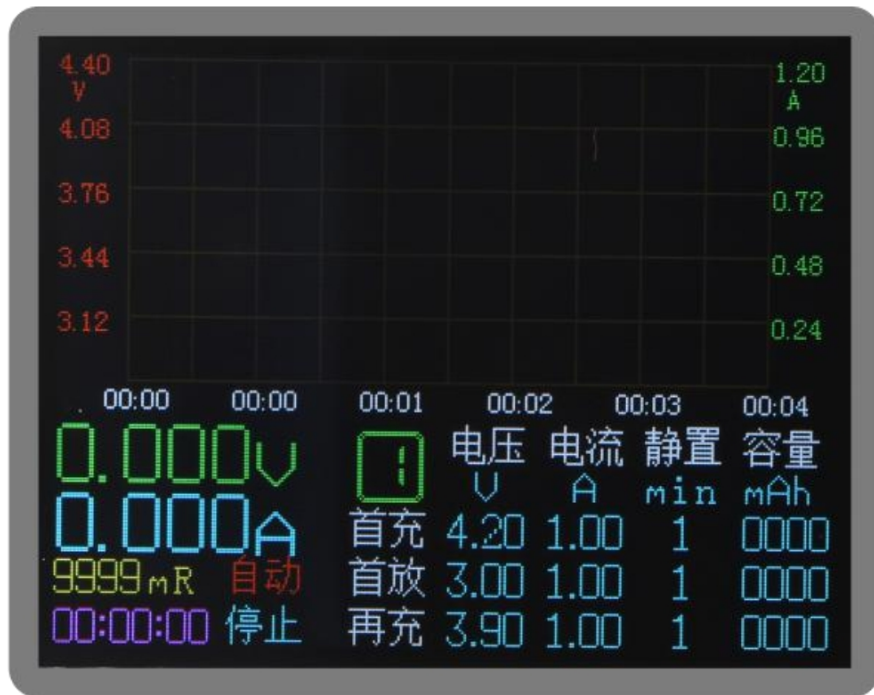
3.6、Packaging (without power supply)



4. Interface display



8 Channel overview actual display

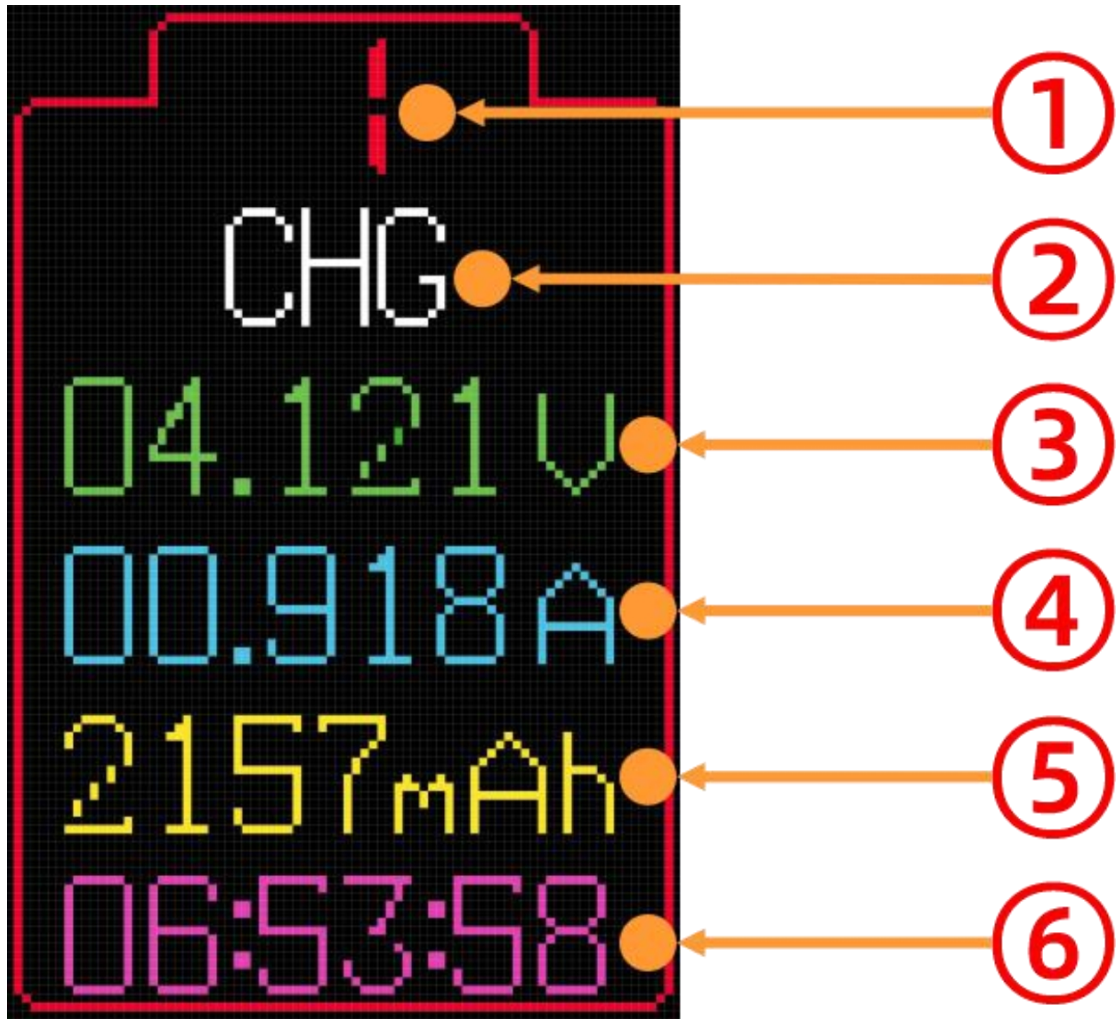


↑Single channel details are actually displayed

The following is a demonstration, not an actual display

4.1、 Overview of Display

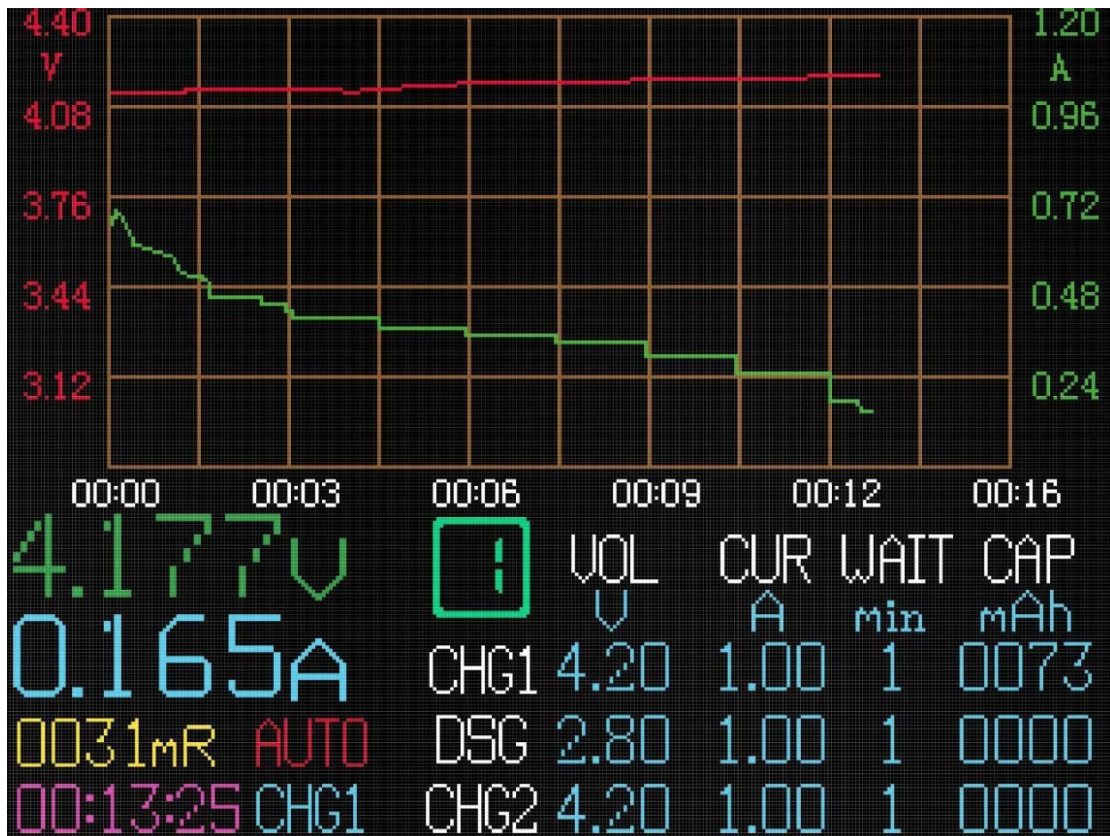




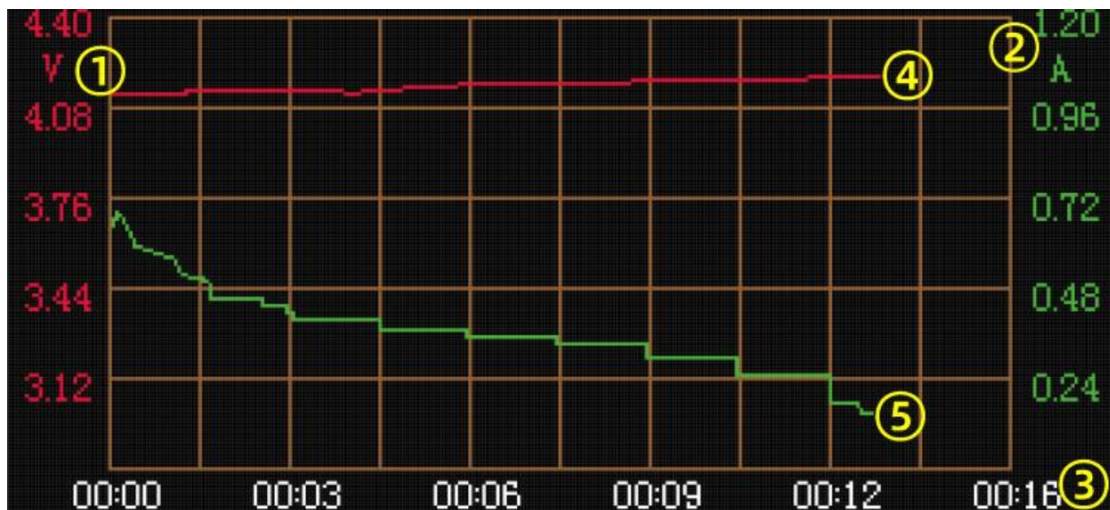
- ① Channel indication
- ② Real-time status indication: CHG(charge)/ STOP /END /WAIT / DSG(discharge)
- ③ Real-time battery voltage indication
- ④ Real-time working current indication
- ⑤ Capacity metering

⑥ Total program run time (hour: minute: second)

4.2、Details of access roads



4.2.1、Presentation of voltage and current curves



- ① Voltage coordinate system
- ② Current coordinate system
- ③ Time coordinate system
- ④ Voltage curve —————
- ⑤ Curve of current —————

4.2.2、Real time parameter



- ① Real-time battery voltage
- ② Real time current
- ③ Operating mode
- ④ Work Step Status
- ⑤ Program run time
- ⑥ Battery internal resistance: measured by DC two-wire method

4.2.3、Working step parameters



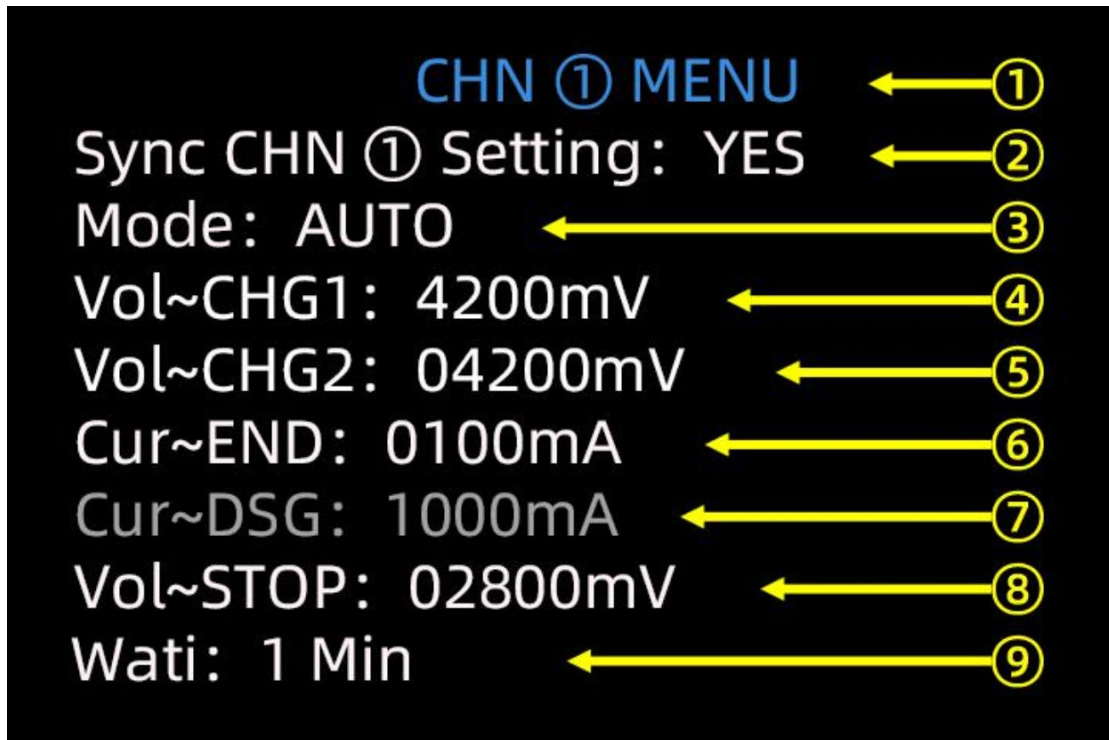
① Channel indication

② CHG1 (initial charge): charging voltage - maximum 1A non-constant current charging current - standing time (minute) - charging capacity

③ DSG(discharge): discharge stop voltage - maximum 1A non-constant discharge current - standing time (minute) - discharge capacity (main reference data for capacity measurement)

④ CHG2(Recharge): Recharging voltage - maximum 1A non-constant charging current - standing time (minute) - charging capacity (minute) - charging capacity

4.3、Menu



- 1 Channel indication
- 2 Synchronization or not ① Channel setting
- 3 Operating mode: AUTO/CHG/DSG/ACTI
- 4 CHG1 voltage setting
- 5 CHG2 Recharging voltage setting (after discharge)
- 6 End current setting
- 7 1A non-constant discharge current (non-adjustable)
- 8 Stop (discharge) voltage setting, independent of charge
- 9 Setting of standing time: step alternate waiting time (battery cooling time)

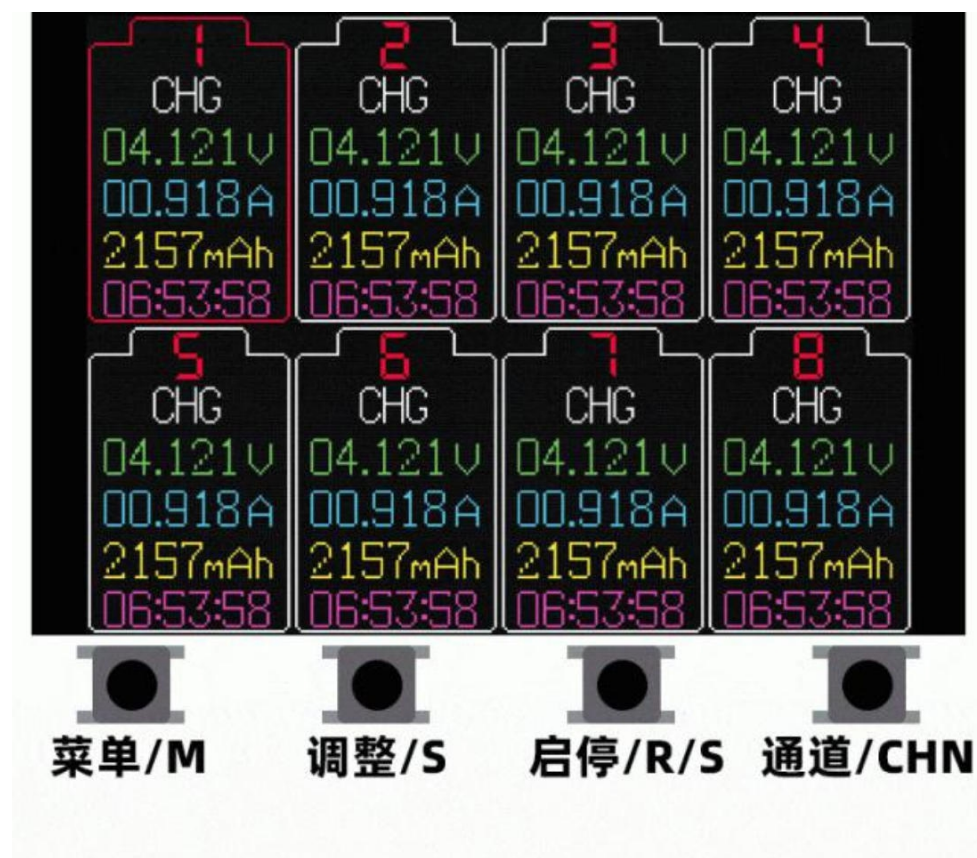
5.1、Switch between channel overview and single channel display

Click “菜单/M”，Toggle display overview and channel details

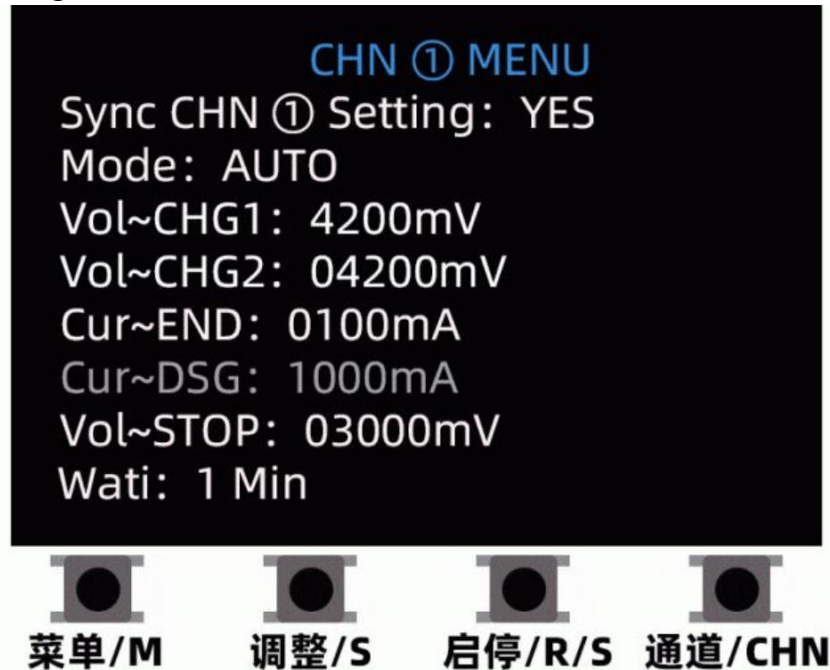


5.2、Enter Menu

In the overview or detail interface, long press the "菜单/M" button for 3 seconds to enter the menu



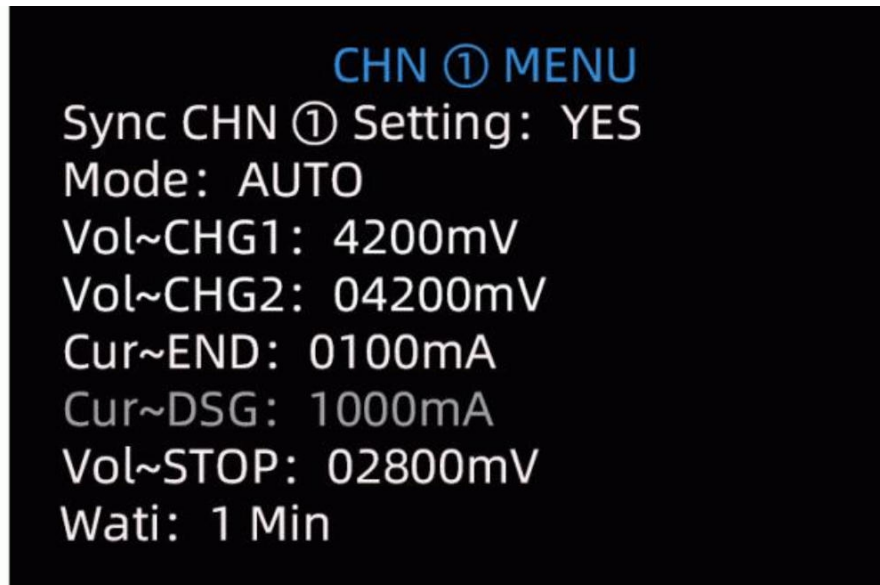
No action for 10 seconds, or long press the "菜单/M" button for 3 seconds to save the settings and return to the overview interface



5.3、Language Under the menu interface, long press "启/停/R/S" button for 3s to switch language



5.4、ModeClick “菜单/M “， Switch to the mode menu



菜单/M



调整/S



启停/R/S



通道/CHN

Click “调整/S “， adjustment operating mode



菜单/M



调整/S



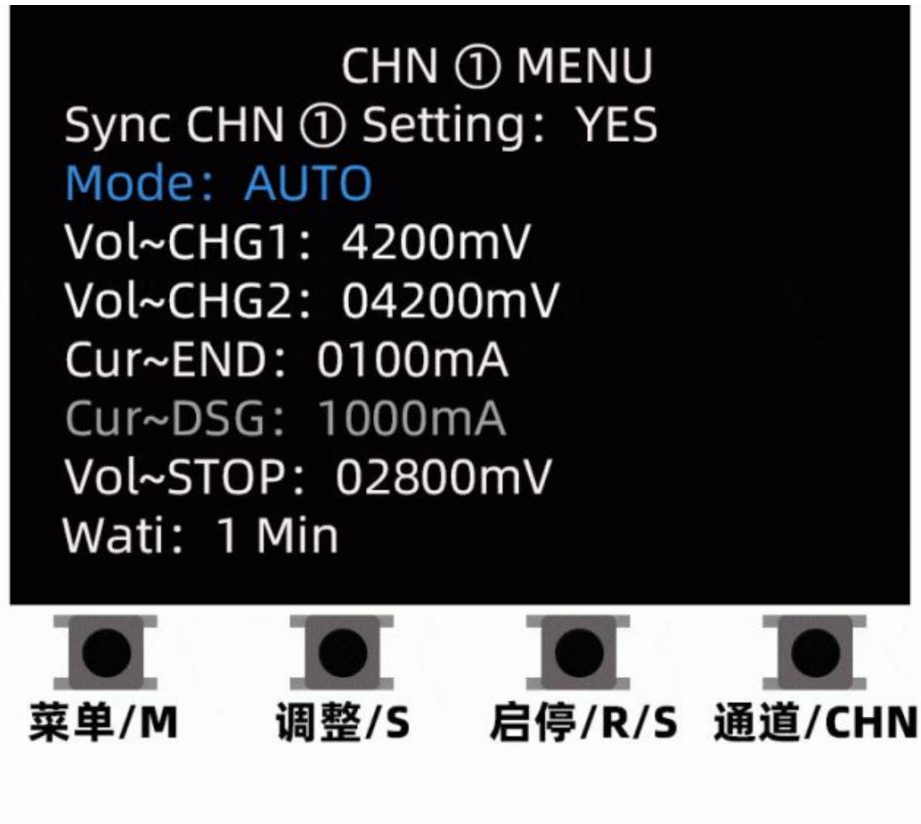
启停/R/S



通道/CHN

5.5、CHG1

Click “菜单/M “， Switch to the Vol~CHG1 menu



Click “调整/S “,adjustment Vol~CHG1



5.6、CHG2

Click “菜单/M “, Switch to the Vol~CHG2 menu



Click+ “调整/S “, adjustment Vol~CHG2

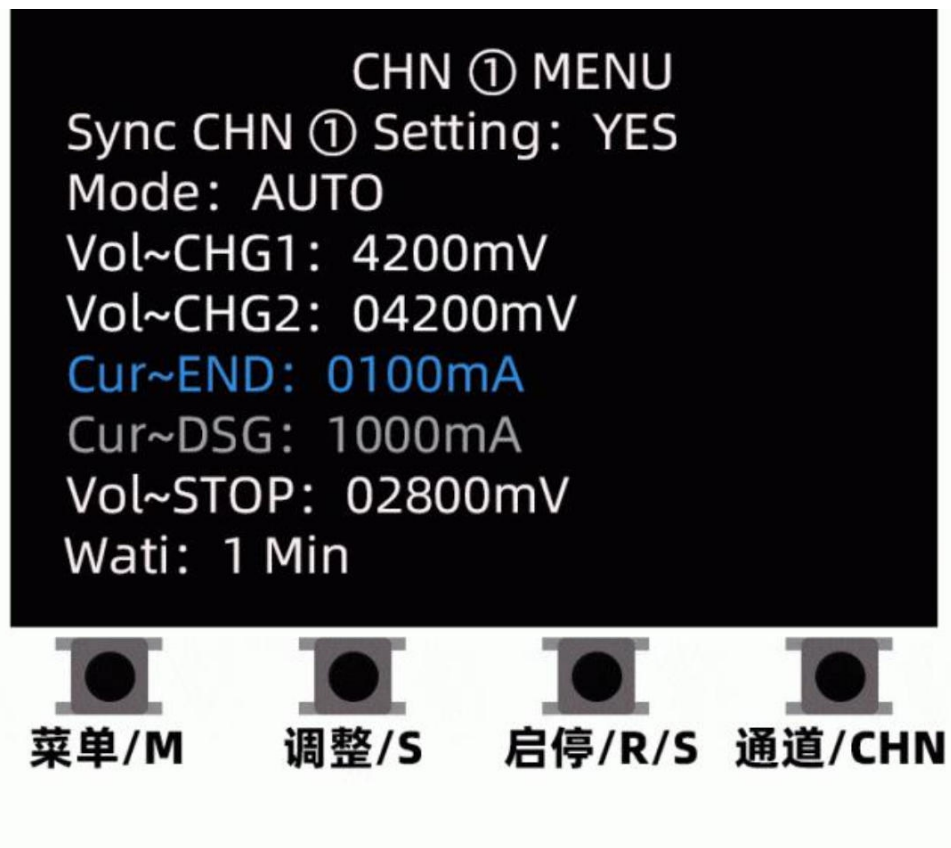


5.7、Cur~END

Click “菜单/M”，Switch to the Cur~END menu



Click “调整/S”，adjustment Cur~END



5.8、Vol~STOP

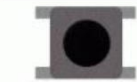
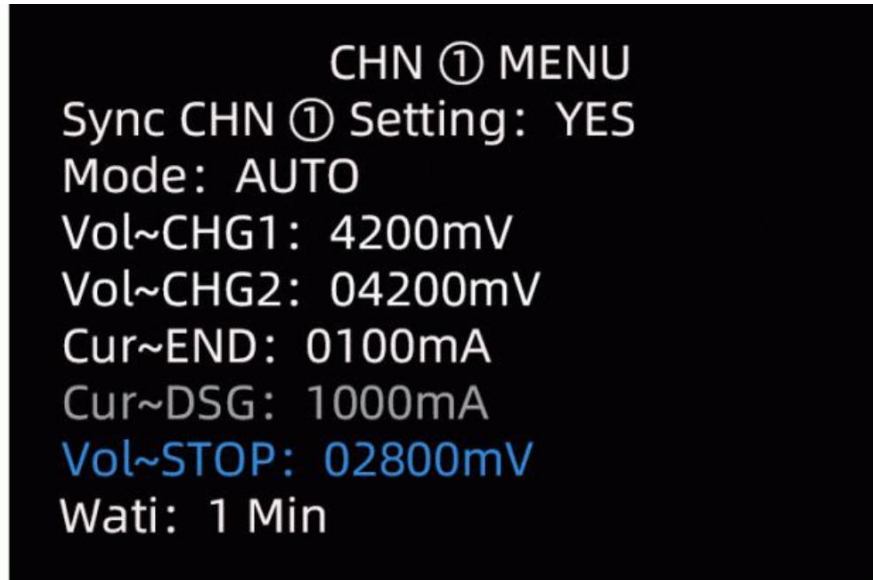
Click “菜单/M”，Switch to the Vol~STOP menu



Click “调整/S”，adjustment Vol~STOP



5.9、WatiClick “菜单/M”, Switch to the Wati menu



菜单/M



调整/S

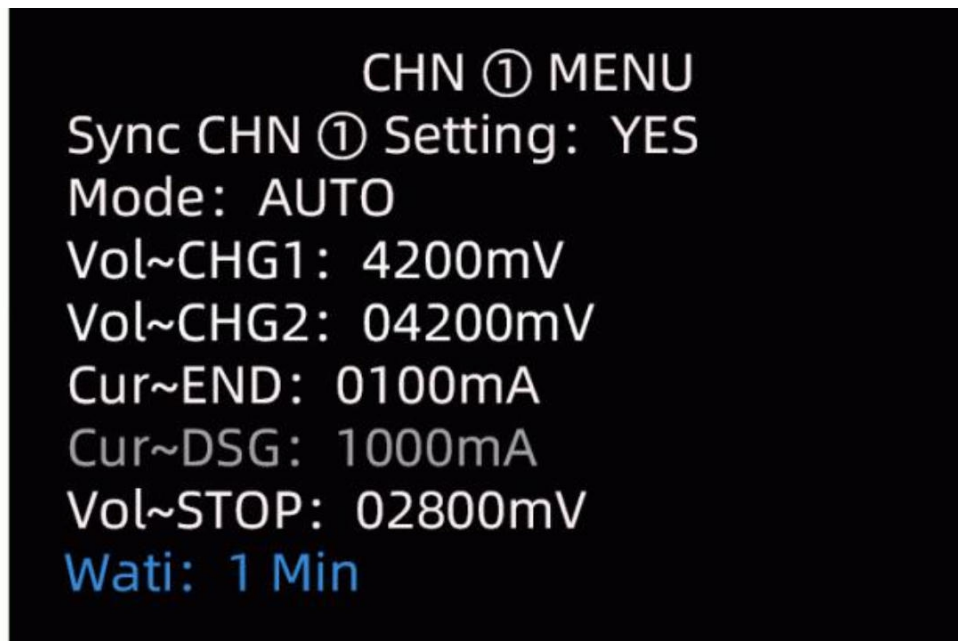


启停/R/S



通道/CHN

Click “调整/S”, adjustment Wati time



菜单/M



调整/S



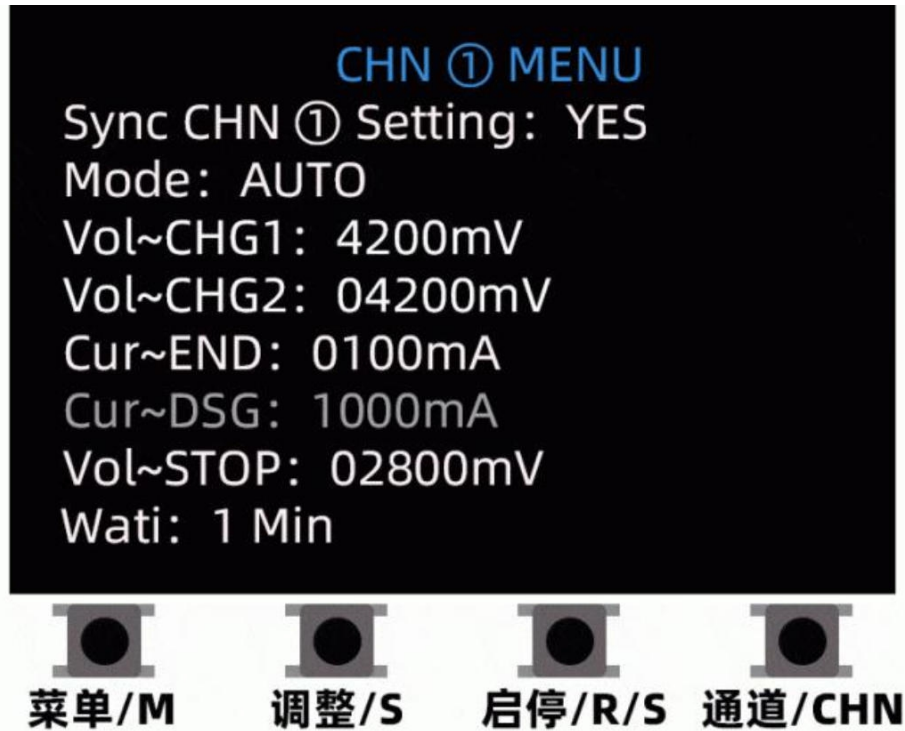
启停/R/S



通道/CHN

5.10、Switch to CHN ② Menu

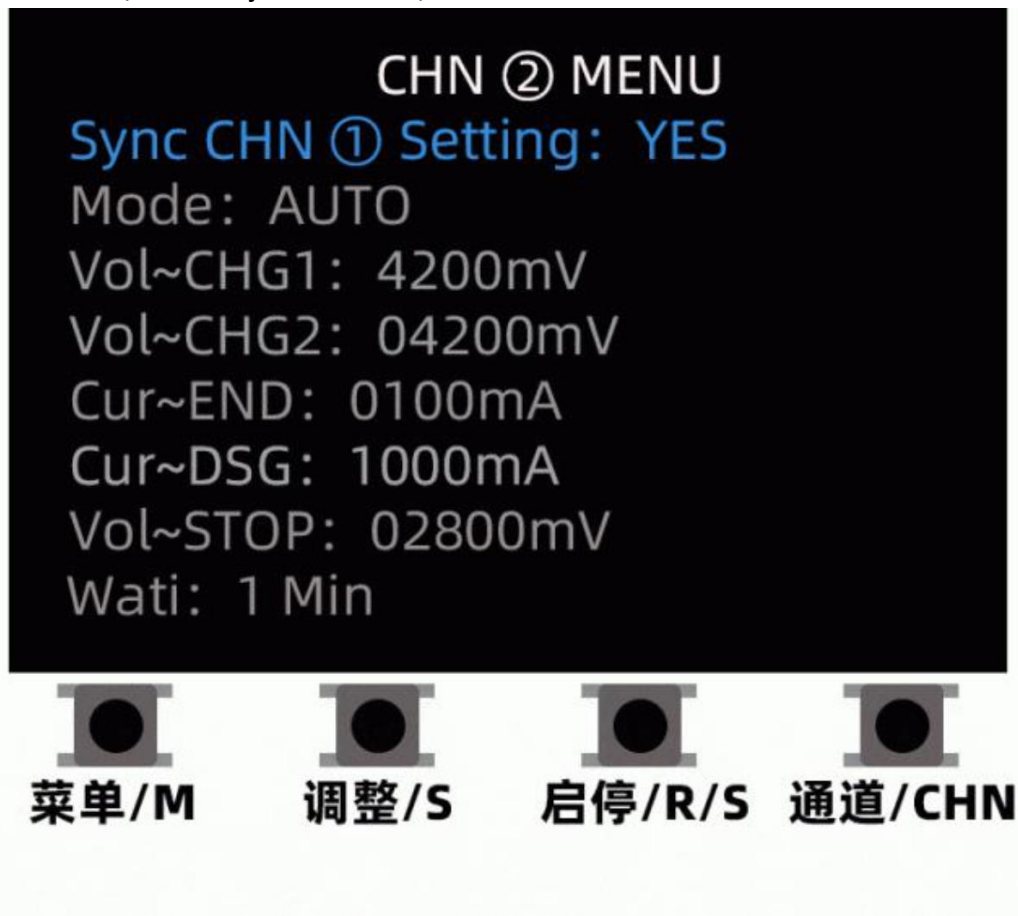
Click “通道/CHN “， Switch to CHN ② Menu



Click “菜单/M “ Switch to Sync CHN ① Setting menu

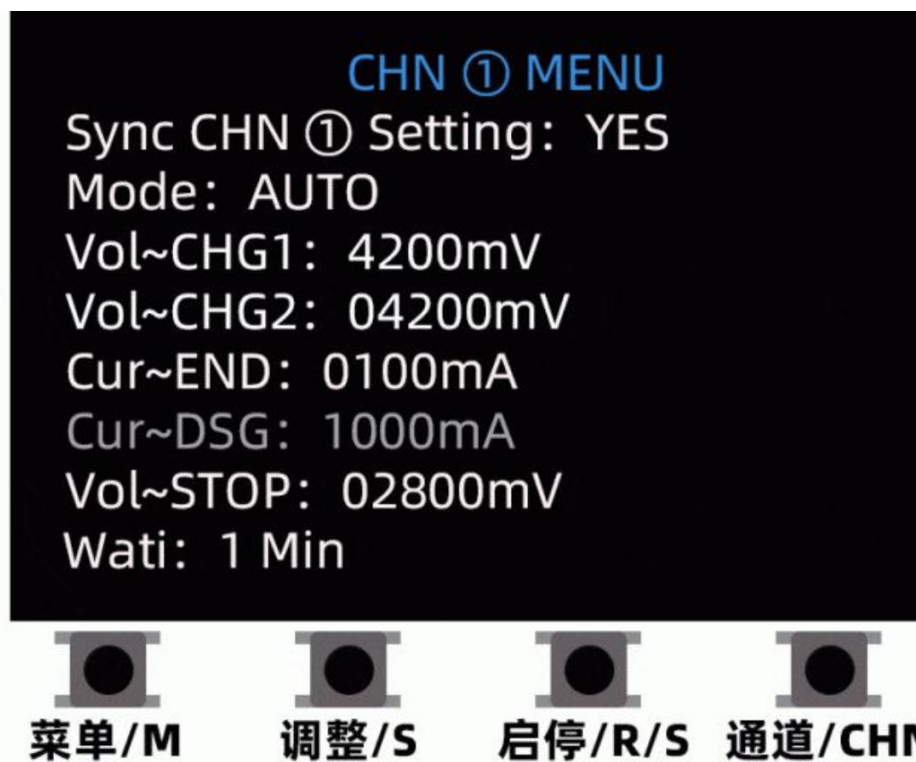


Click “调整/S”，adjustment YES/NO



When the channel parameters need to be set separately, adjust to "Sync CHN① Setting: No", and then operate according to steps 5.4~5.9 to complete the corresponding settings.

5.11、Switch different channel menus Click “通道/CHN”，Switch different channel menus



5.12、Operation procedures,

5.12.1、Click "启停/R/S" button to start or stop the current channel program.
Click "Channel/CHN" button to switch to the next channel.

5.12.2、 Long press the "启停/R/S" button for 3 seconds to start the channel program at the same time; To stop the program, enter the individual channel stop program.

6. Steps to use

6.1、 Connect 5V/10A power supply!

6.2、 Install the test battery, pay attention to the positive and negative poles of the battery, and do not install it reversely!

6.3、 Set the test parameters and start the program, wait for the test to be completed, and the test personnel shall not leave the site when the mode is activated.

6.4、 Check the test results and disconnect the battery.

—END—