

**Product
Parameter**

Torch is AT085 product parameters

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product name Type-C detector	product model AT085
LCD screen IPS HD colorful	temperature measurement CPU temperature measurement
power supply mode 48V full voltage power supply	Capacity calculation Calculation of capacity by electric quantity value
Gravity induction Gravity rotating screen/-support locking direction	Power chip DC-DC switching power supply
Control mode Double bond page turning	measuring voltage DC4.5~50V
Curve function Two-parameter curve can pause/run.	measuring current 0~6A (short-term peak 12A)

Electric parameter recording Real-time recording of voltage, current and power peak value	Power consumption in this table <0.15W
Bidirectional current Bidirectional 12A	Power display 0~600W
Sampling resistance 0.001R	Electric quantity display 0~9999Wh
Data retention period TA=55°C20 years	Capacity display 0~99999mAh
interface type C male and c female	Working temperature 0~45°C/32~113°F
Type-C 16PPD3.1 through	product size 43mm*25mm*10mm
Protocol communication CC1CC2 protocol transmission D+D- data transmission	Product weight 10g

Laser Radium Engraving Technology for High-end Alloy Shell

Gravity sensing rotary screen 50VCC meter

- Gravity induction
- Electrical parameter MAX recording
- Calculation of battery capacity in equipment
- Bidirectional detection
- Electric parameter curve
- 50V high voltage measurement
- offline storage
- Support a variety of fast charging protocol tests



Current Voltage Curve
Real-time Monitor

Real-time voltage and current curve display

Juwei Technology has added a real-time voltage and current curve display function, which is convenient for users to analyze the fluctuation state in the charging process, and can also pause and continue by pressing the button for a long time in the process, which is more convenient for waiting for the curve state in a period of time. Juwei Engineer has achieved a fine degree in application details.



Multiple functional applications
Display interfaces

Multi-display interface and multi-function application

A variety of measurement data can be displayed on one screen, and the previous page interface and the next page interface can be switched by pressing the up and down buttons.

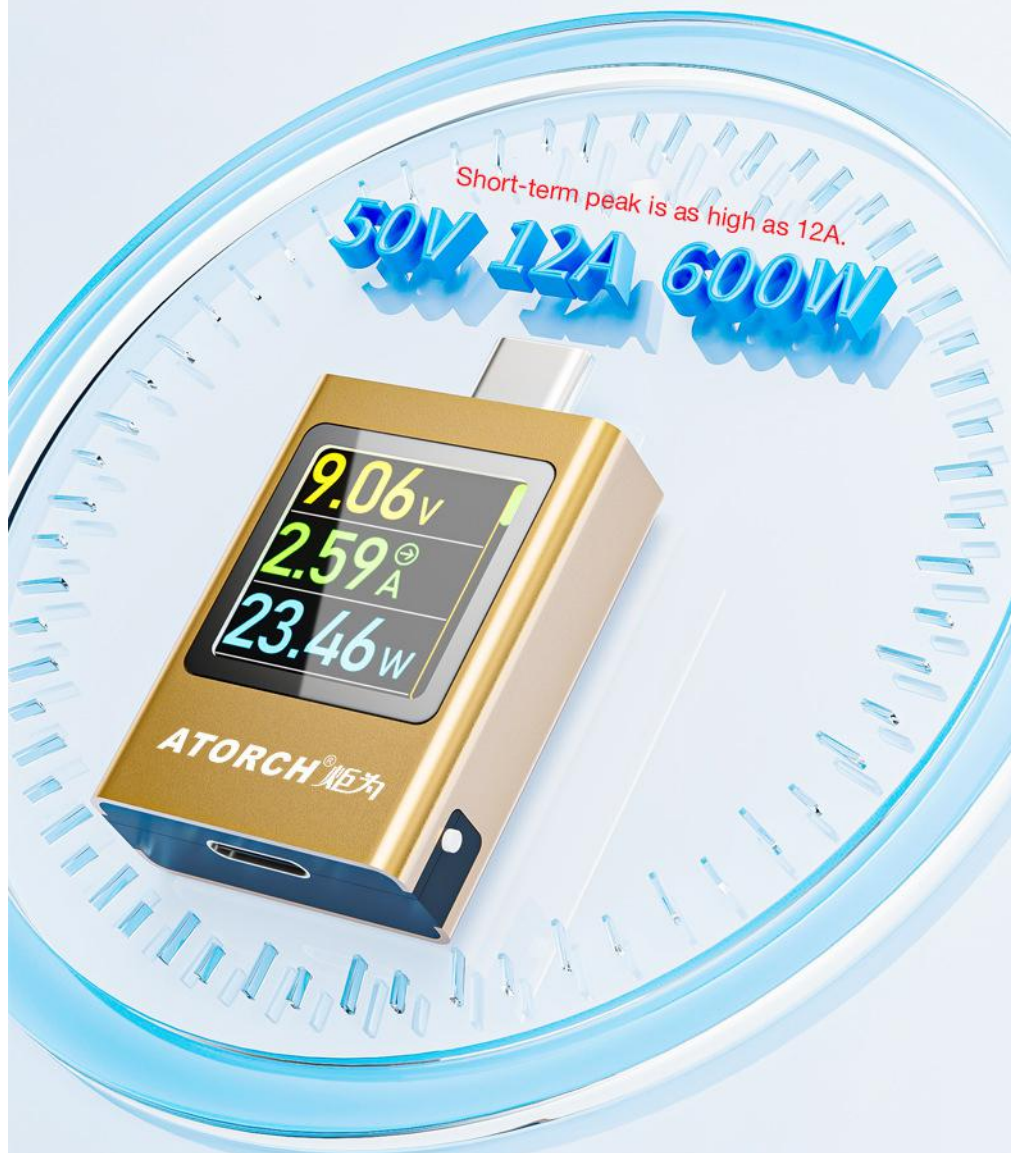


U 09.08 V I 02.52 A P 22.80 W E 26.39 Wh Max V A W:	voltage: 09.08 V electric current: 02.52 A power: 22.80 W electric quantity: 26.39 Wh 9.30V 3.22A 29.9W	9.06 V 2.59 A 23.46 W
6.0V ▶VA 05S 2.79A 3.79V 0.21V 0.25A 0.20A	Current voltage capacity electric quantity 05939mAh 63.52Wh Statistical time : 0005:59:09 Calculation of battery capacity of equipment battery voltage : 3.7V(3.0-5.0) conversion efficiency : 90%(80-100) battery capacity : 10611mAh	Language selection English Chinese language 00.00A No-load current clearing

PD3.1 Protocol
48V high Voltage Protocol

It is compatible with the 48V high voltage protocol of PD3.1 in the future and covers the power-on test of almost all protocols of port C.

Juwei Technology uses DC-DC switching power supply chip internally, which has wide voltage, high efficiency, low self-consumption and almost zero heat generation, and covers the power-on tests of almost all protocols of port C, such as PD2.0, PD3.0, PPS, QC2.0 QC3.0, FCP, SCPAFC, PE, DASH VOOC, SupervOOC, etc., and can be used for many years once purchased.



MAX measurement Recording
Test Various Chargers and Data Cables

**Real-time peak recording of voltage,
current and power**

Juwei Technology has added the recording function of the maximum test data in the charging process. Users can check the maximum voltage value, maximum current value and maximum power value in the charging process at any time unattended, and can easily know the limit charging power of the mobile phone, and easily judge whether the equipment manufacturer boasts whether the high-power fast charging is true or not.



Max V | A | W:

Switch display in turn

9.30V | 3.22A | 29.9W

Automatic rotation
Accelerometer

Gravity sensing four-way automatic rotating screen display

Juwei Technology has installed a gravity acceleration sensor inside this time, which will automatically display the screen to users when they are testing in four directions, thus achieving a higher user experience.

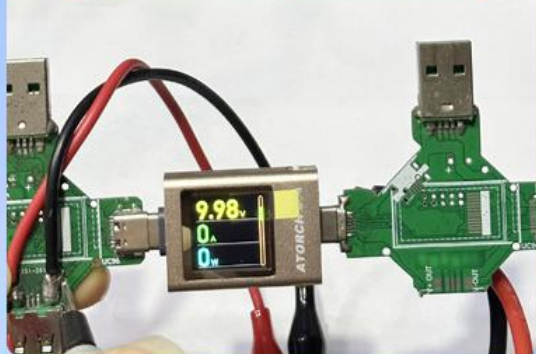
Support 5-click confirmation key to enter lock mode)



Master Comfort
Cold and warm

Precision comparison of six semi-professional instruments for current and voltage precision evaluation

Precision has been strictly calibrated by engineers in the factory, and the soft calibration technology of innovative technology is adopted. The software learning precision is carried out by large instruments, and the smile error caused by hardware is repaired by software, so that the measurement precision is exactly the same as that of large instruments.



Test various devices
Type-C digital device

Test all kinds of Type-C digital equipment.

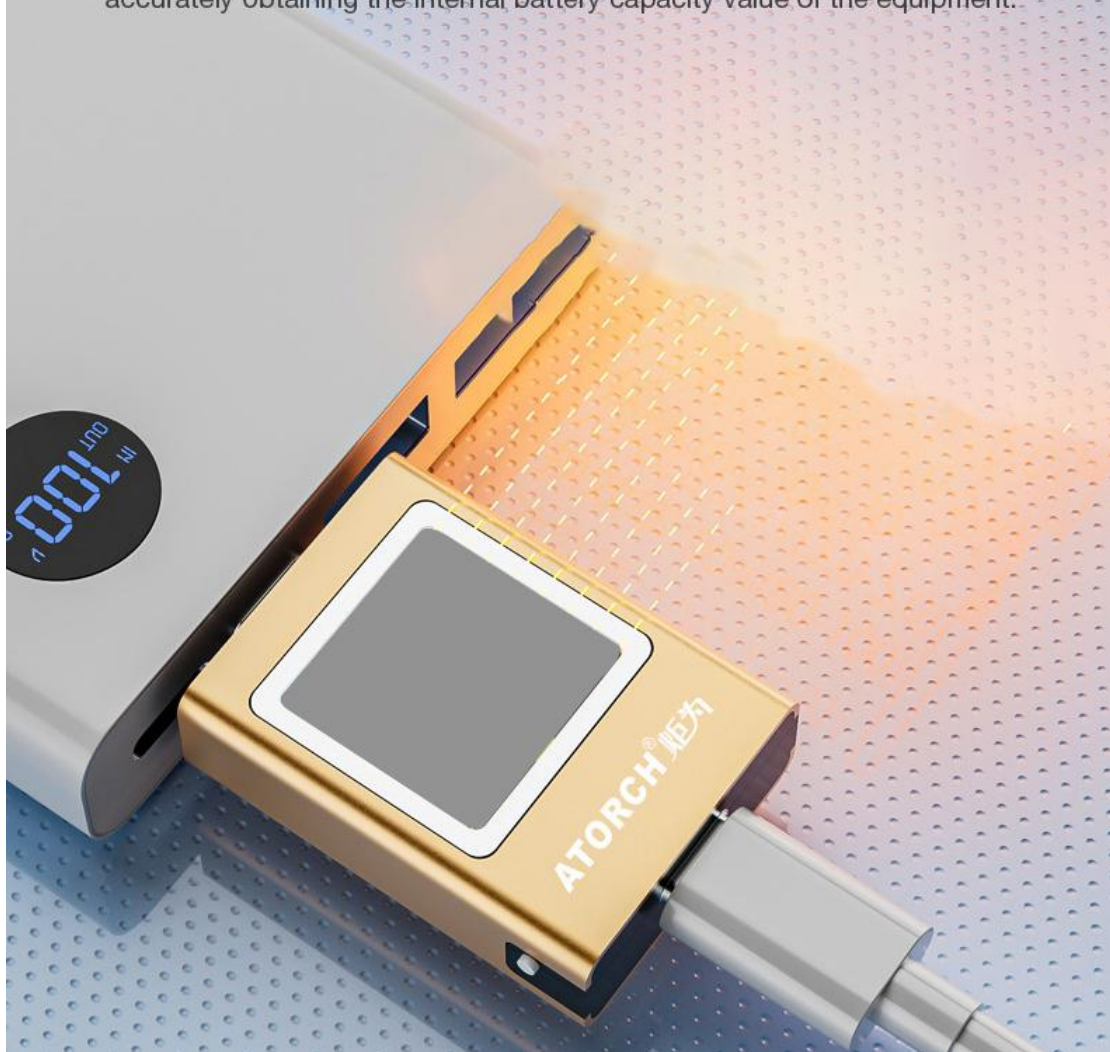
Easily test all kinds of Type-C: charger, data cable, charging treasure, notebook, tablet, Mobile phones, Type-C digital devices, etc ...Capacity, statistical time, CPU temperature and other measurement parameters. Support a variety of fast charging protocols, a screen display a variety of parameters, high-definition color screen, a variety of test parameters at a glance.



Battery Capacity Calculation Test Various Power Banks

Display of logical algorithm for calculating internal battery capacity of equipment

This time, Juwei Technology has set up a display interface of logic algorithm for calculating the internal battery capacity of the equipment, and calculated the internal battery capacity of the equipment through software according to the logic of battery voltage and conversion rate based on the quasi-value data of electric quantity during step high-voltage charging, thus completely avoiding the disadvantage that the internal battery capacity of the equipment cannot be tested due to high voltage test, thus accurately obtaining the internal battery capacity value of the equipment.



OFF-line Storage
Bidirectional Current Detection

Two-way current detection and offline storage are all available.

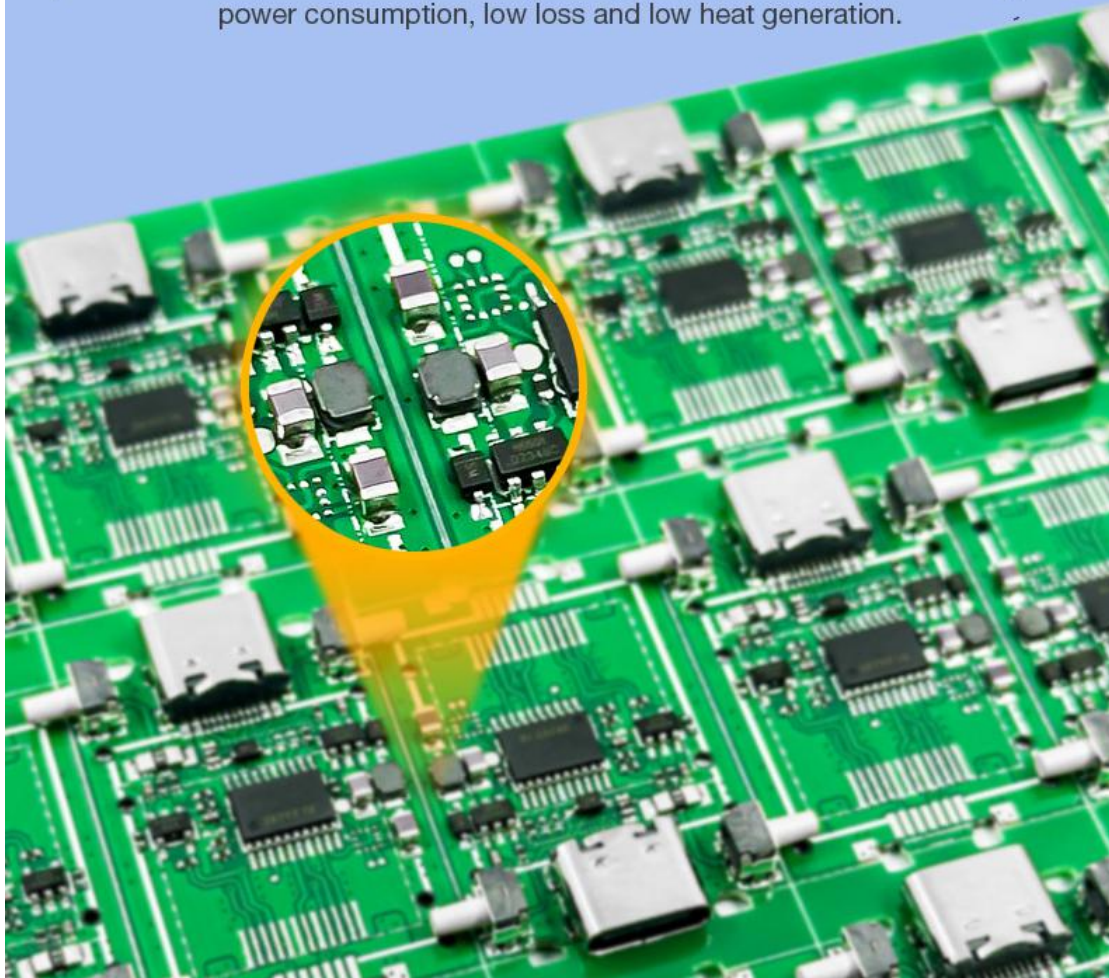
Juwei Technology has carefully crafted the technology on this AT085 color screen CC meter, and also added bidirectional current measurement technology, which can be inserted into the charger or the mobile phone for measurement, and separately added the no-load current clearing function to make the measurement of fine current more accurate; It also has ROM storage for offline storage of power-off memory data, which is convenient for the data accumulation application of battery life test by stages, and greatly improves the accuracy of power capacity test.



DC-DC built-in power supply
Low self power consumption

**Built-in DC-DC switching power supply has
low power consumption.**

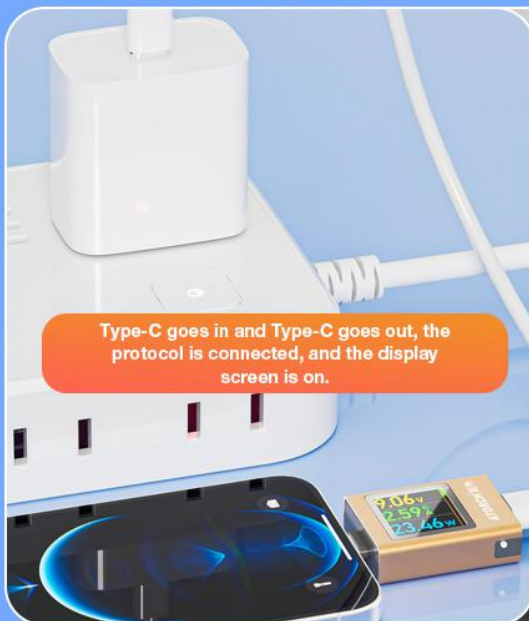
Juwei Technology uses a high-cost DC-DC switching power supply chip to supply power to the line, with wide input voltage range, high power supply efficiency, low power consumption, low loss and low heat generation.



Zero power Consumption PD protocol charger

Design of zero power consumption for automatic screen display of PD protocol charger when there is no current

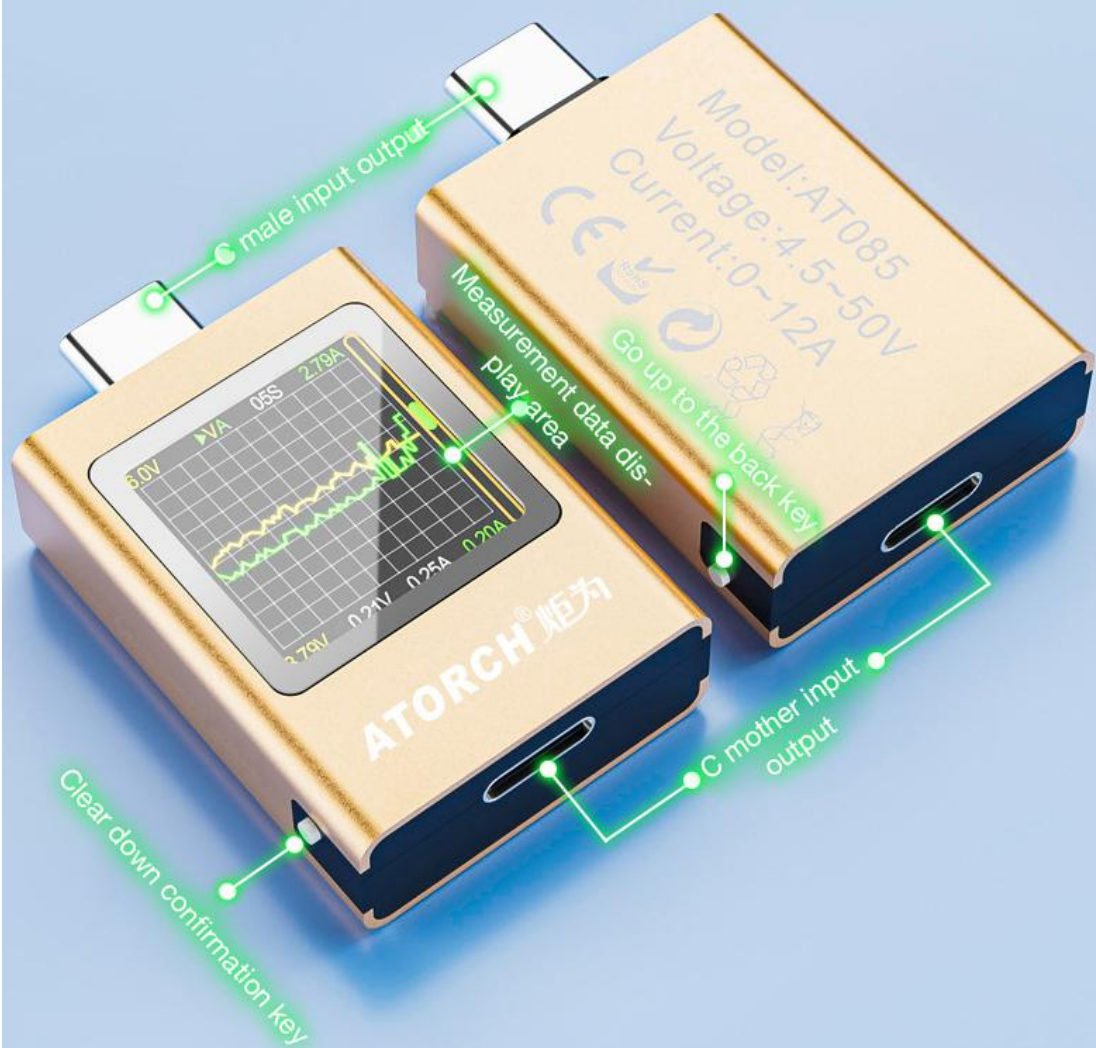
Juwei Technology has added the function that the screen will not light up when there is no connected equipment and no current in the PD protocol charger test process, which can prolong the service life of the screen, consume zero power, avoid interference at night and save energy and protect the environment.



Function Introduction
AT085

Brief introduction of torch AT085 interface
function

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Color screen interface
Interface Introduction

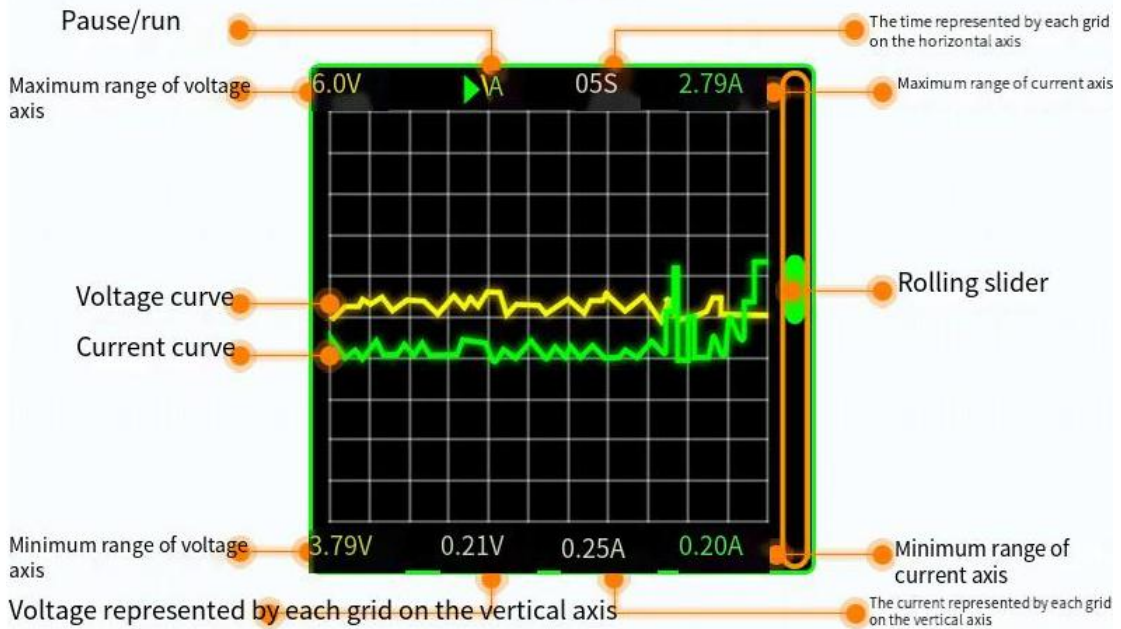
Analysis of color screen inter-
face of torch AT085

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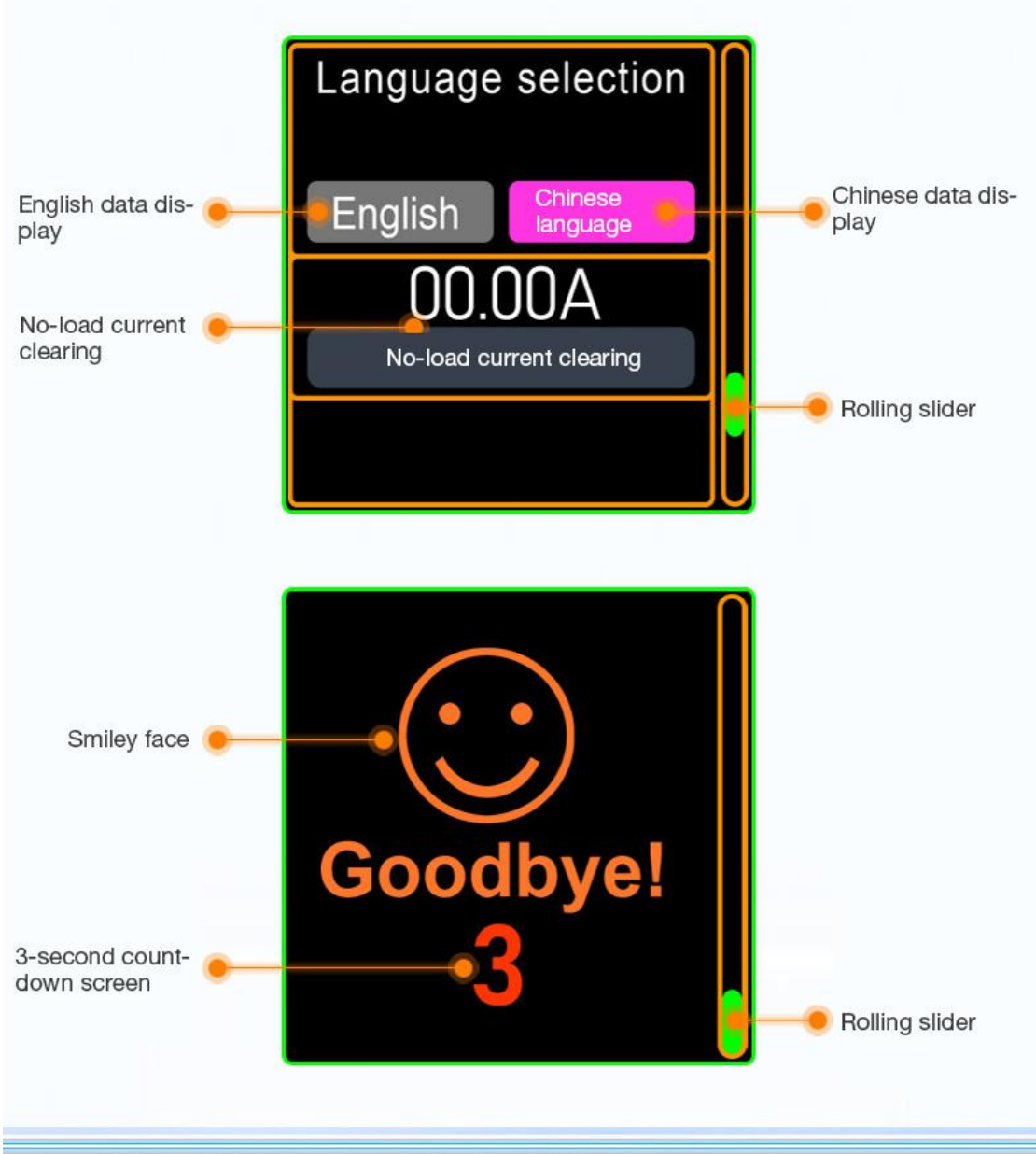


Press and hold the Enter key repeatedly to change color.



Press and hold the confirmation key repeatedly to pause/run the curve.





Functional operation

- Up/Enter/Back key** Short press is to turn up the page or dial the number; Long press is the function of entering or returning. (Tips: When you press this button for the first two pages, the screen turns white.)
- Down/Clear/Confirm key** Short press is to turn down the page or adjust the number.; Long press on different pages is to clear the power capacity, pause the curve, confirm and clear the no-load current, etc. (Tips: press this key five times quickly to lock and unlock the display direction of the screen)

frequently asked question

Question 1: Why is the product not displayed when the product is plugged into the charger alone?

Answer: By default, the Type-C port of most chargers has no voltage output. At this time, the product has no power supply and no display. Only when the load agreement is detected will the charger have voltage output and the product will be displayed at this time.

Question 2: My product charger is marked with 10A or 120W. Why can't the test meter detect 10A or 120W?

Answer: The measured value of this product is the real-time charging parameter in the charging process, and the parameter marked on the charger is the maximum power parameter of the product, so it is not always possible to output such a large parameter.

Question 3: Why does the output occasionally show a current of 0.01-0.02A when there is no load?

Answer: This product adopts bidirectional current detection, and it is normal that there is a small no-load current, but it can also be cleared by pressing and holding the function key quickly in the current clearing interface.