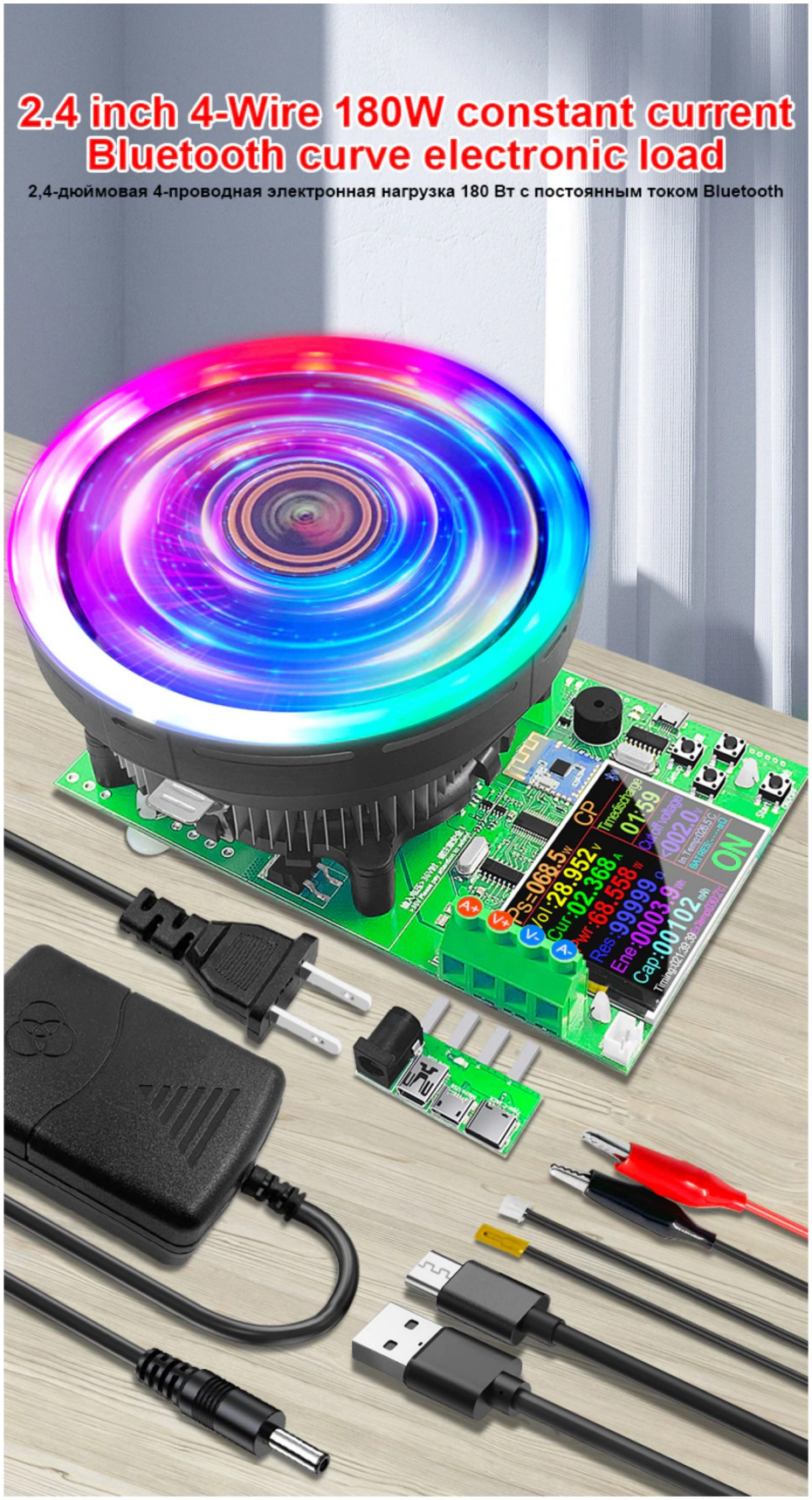
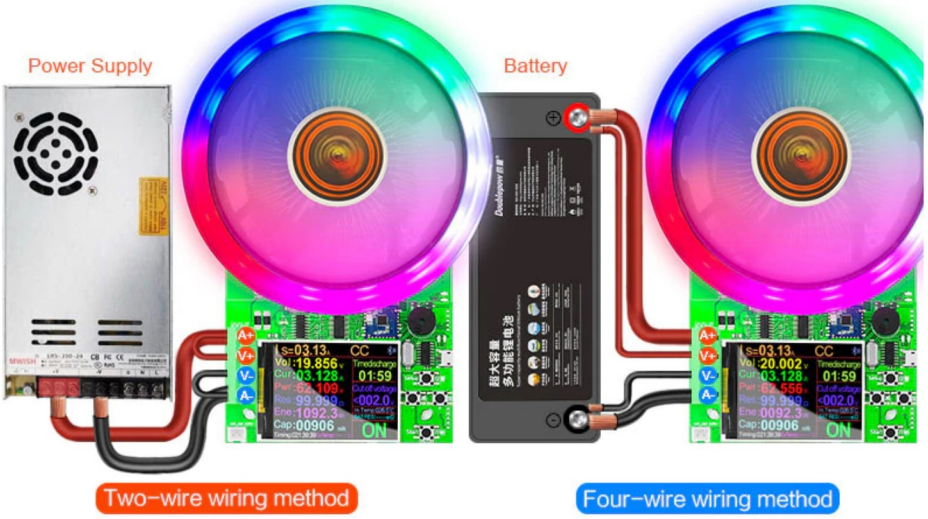
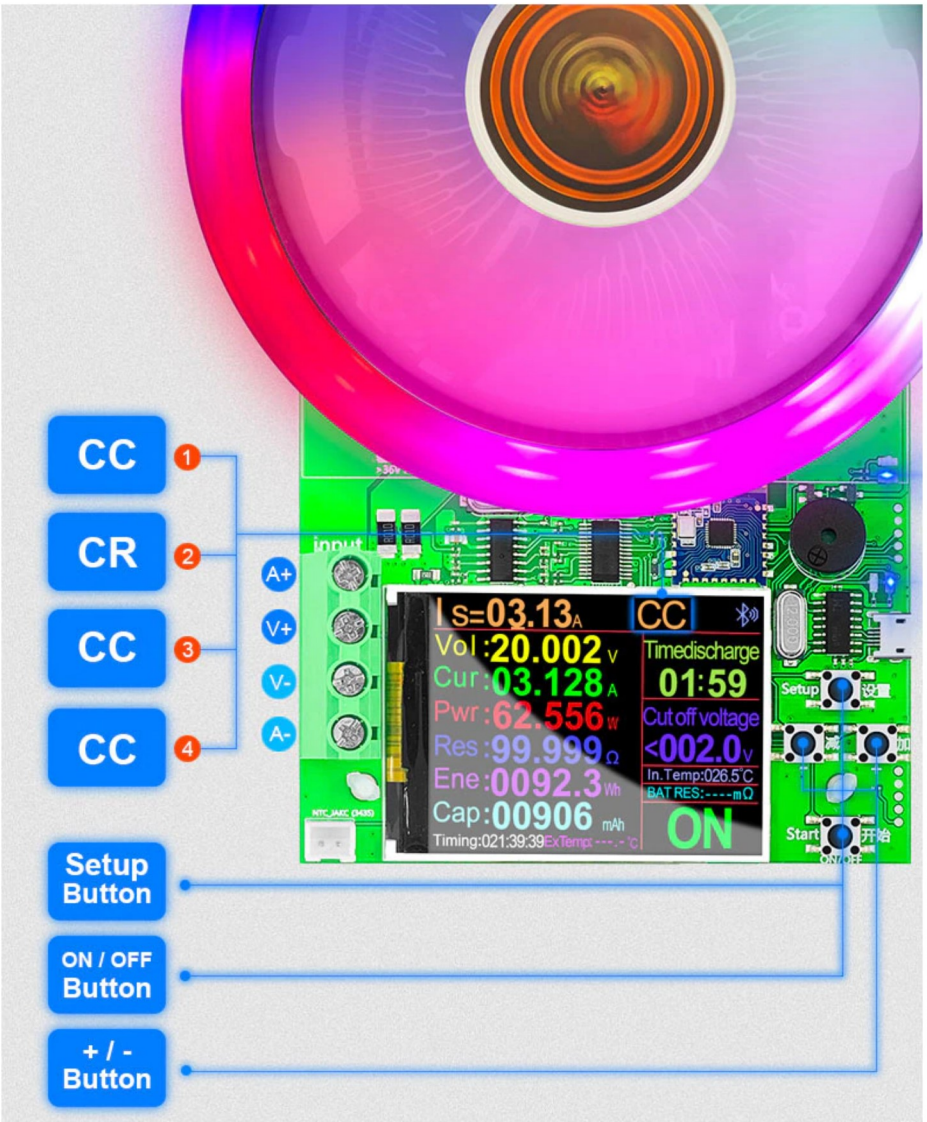

2.4 inch 4-Wire 180W constant current
Bluetooth curve electronic load
2,4-дюймовая 4-проводная электронная нагрузка 180 Вт с постоянным током Bluetooth

The detection accuracy of 4-wire system is more professional

Compatible with two-wire connection method

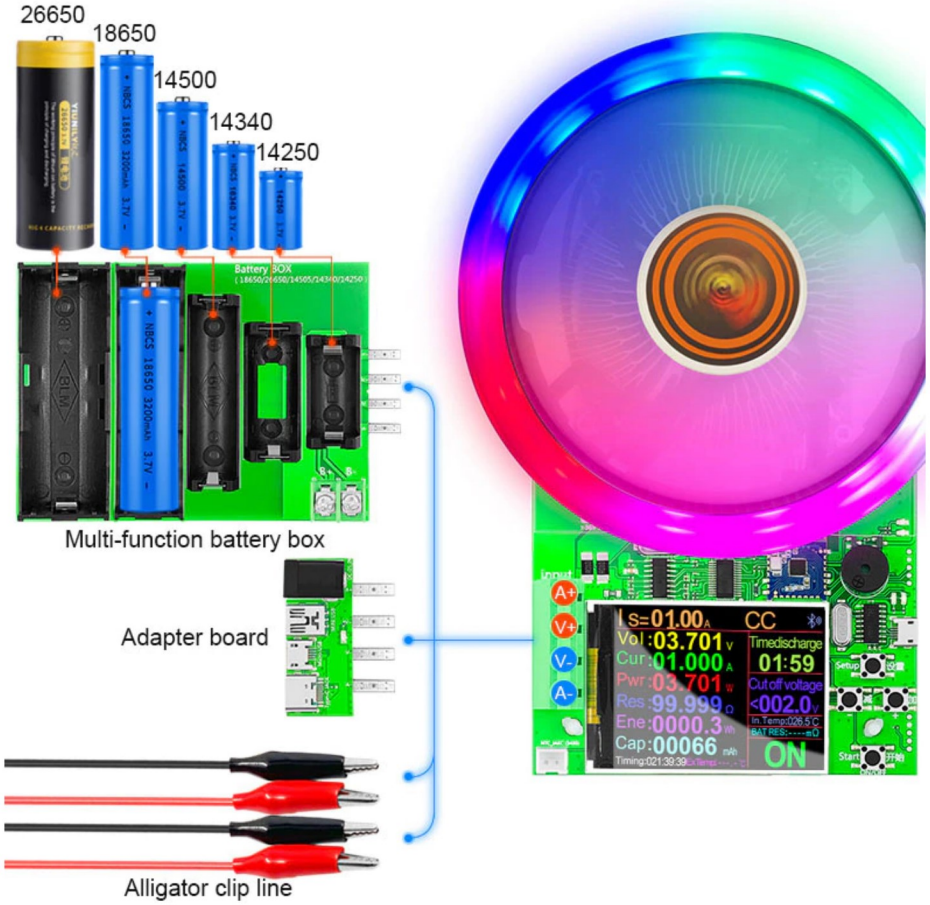




Automatically Generate Test Reports: Cut-off Voltage and Time-limited Discharge

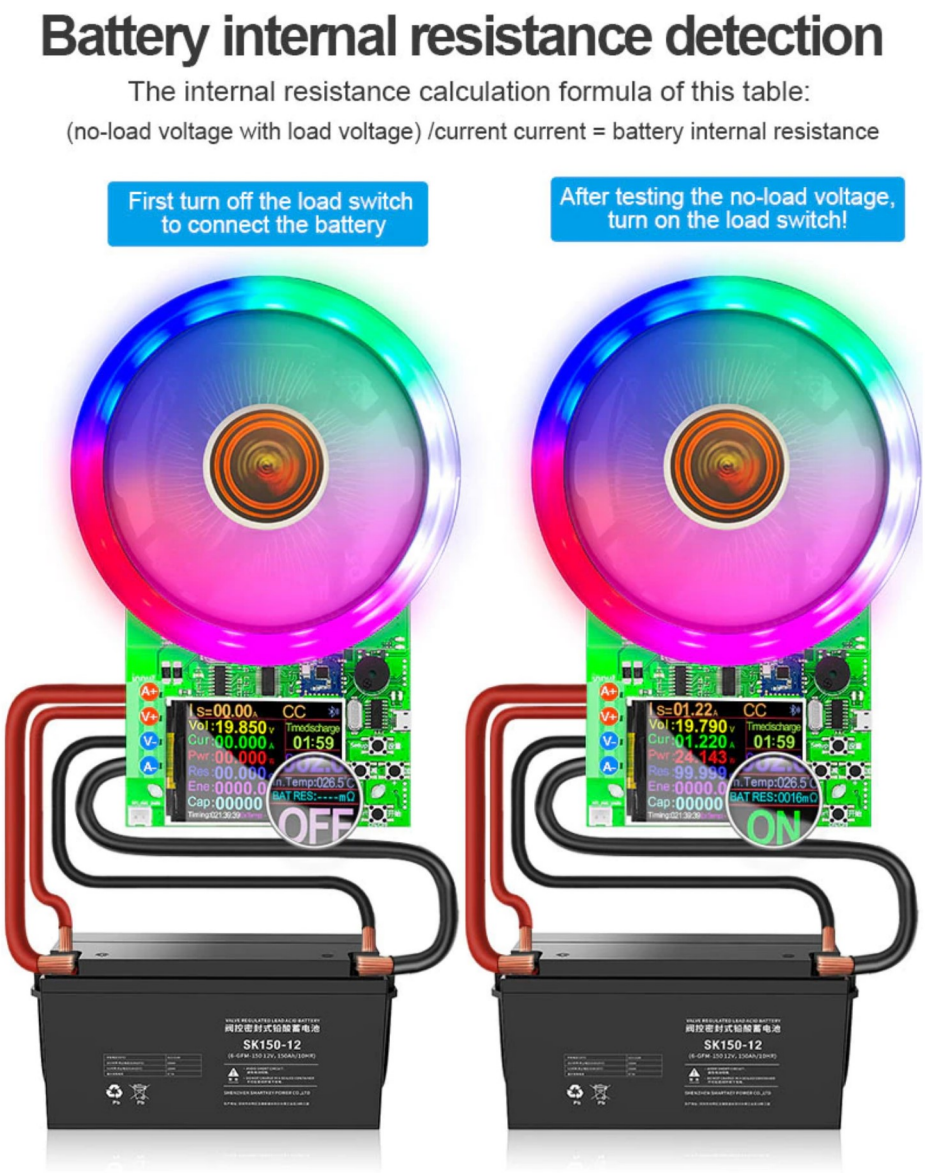
Accessories matching, functional test upgrade

Three wiring methods of the product



PC computer
wireless Bluetooth connection
PC computer
wired connection
IOS APP
Android APP

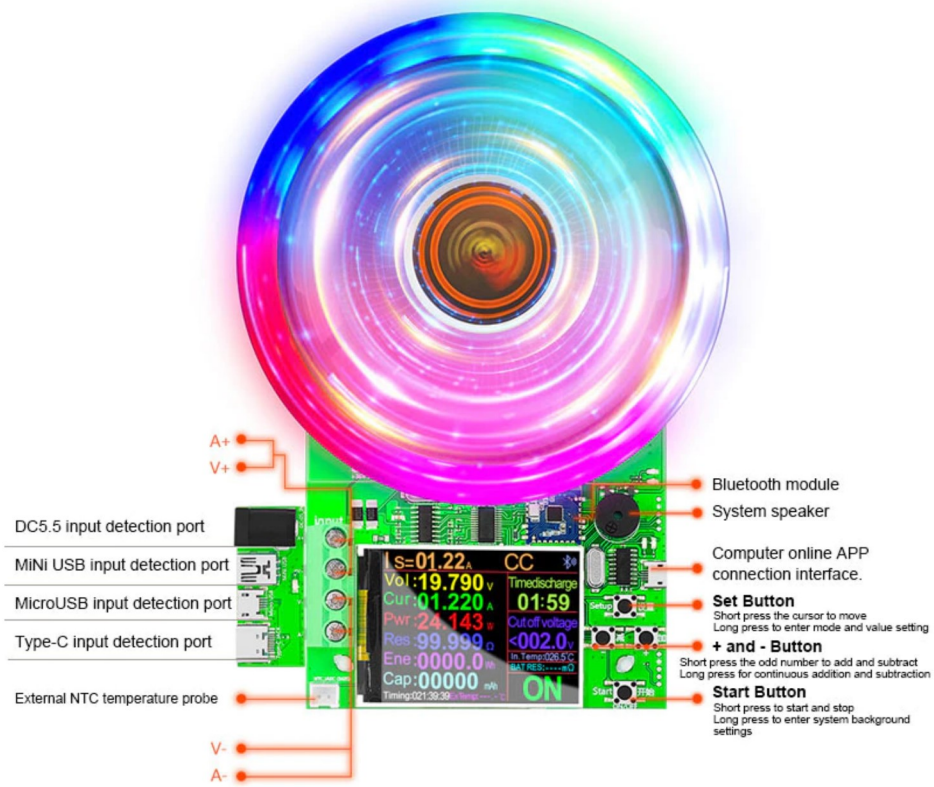
RK8511 150V/30A/150W DC ELECTRONIC LOAD
30.023V 5.969A
179.20W I= 0.000A
POWER
Esc
I-set
V-set
P-set
R-set
Enter
Shift
Local
Battery
Short
Trigger
Is=179.2
Vol:30.023
Cur:05.969
Pwr:179.20
CC
01:59
ON



-Produkt Parameter --

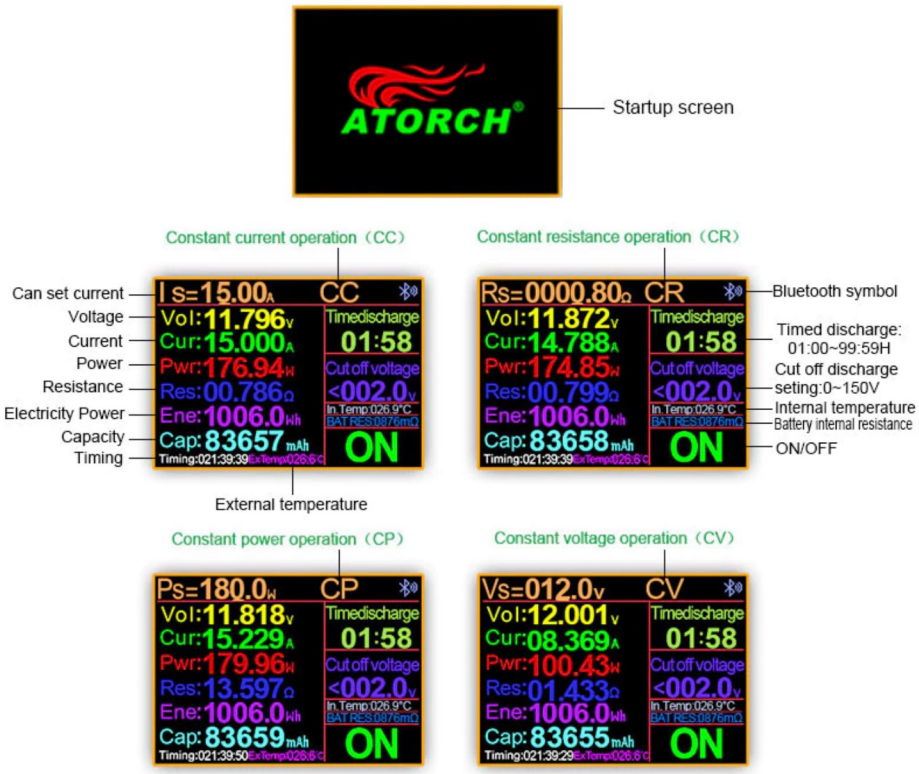
Elektrische parameter
Test spannung: 2 ~ 200V
Arbeits strom: 0.2 ~ 20A
DL24 Entladung leistung: spannung * strom <150 W
DL24P Entladung leistung: spannung * strom <180 W
(Die tatsächliche lauf strom ist begrenzt durch die maximale leistung, bitte stellen sie die aktuelle nach dem gesetz von energieeinsparung)
Die gebaut-in über-strom, über-temperatur, über-power sicherheit schutz funktionen, wenn die schutz interface ist tauchte up, zahlen sie bitte aufmerksamkeit auf die parameter einstellung, wird anpassen, um die maximale Power, und dann entladen, sie können erste langsam und reibungslos einstellen der vorgegebene wert in die starten und entladung, in auftrag zu passen bis um die maximale leistung für Entladen

Introduction to each part



Vier betriebsarten von bedienung

1. konstante strom betrieb (CC)
2. konstante widerstand betrieb (CR)
3. Constant power betrieb (CP)
4. konstante spannung betrieb (CV)



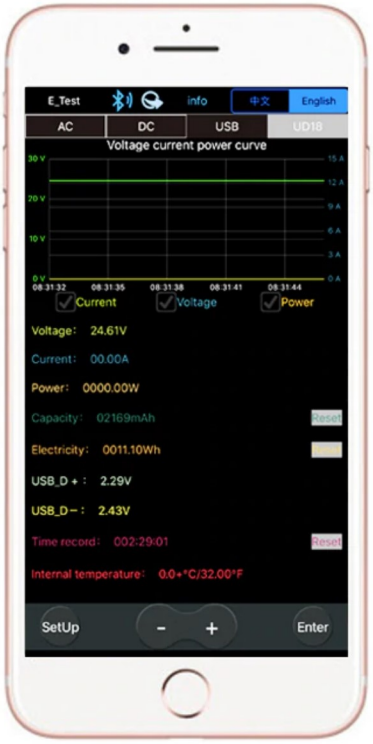
Schutz einstellungen

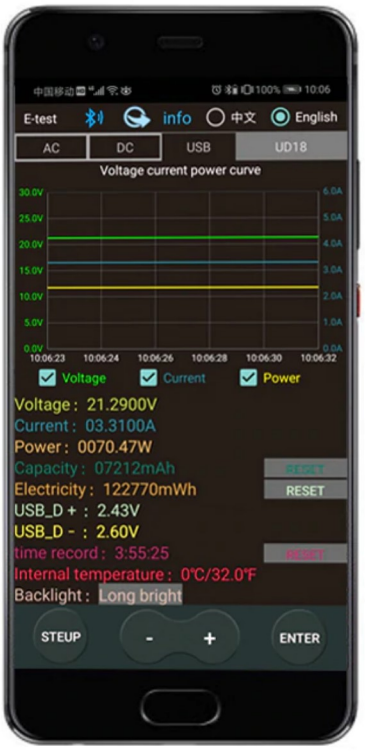
1. überlast schutz
2. überstromschutz
3. hohe temperatur schutz

Gerät hintergrund einstellungen (Chinesisch/Englisch einstellungen)

1. chinesische einstellungen

2. englisch einstellungen





iPhone APP

Android APP

1.New addition iPhone App,In the Apple Store, search for: E_Test,Click Download to install it.

2.Android APP:http://www.mediafire.com/folder/31bc15uhq8odb/E-meter

1) Apple Mobile APP:

Suchen sie bitte für E_test in die anwendung store zu und installieren, dann klicken sie auf die Bluetooth APP icon zu öffnen die software, und dann klicken sie auf die Bluetooth icon über die software zu geben die auswahl DL24-BLE zu verbinden, sie können erreichen handy fernbedienung drahtlose fernbedienung einstellungen und Messung funktion, Die entladung status kann betrachtet werden zu jeder zeit auf die handy, verschiedene daten reinigung ist sichtbar, die spannung und strom power kurve der entladung, etc.

2) Android telefon APP:

Den Qr-code auf der rückseite der host zu download die entsprechenden APP software oder Android APP: suche E-test bei Google spielen zu unten last. Nachdem die installation abgeschlossen ist, öffnen sie die software und klicken sie auf die Bluetooth symbol, um geben sie die direkte auswahl von DL24-BLE zu erfolgreich nutzen es online. (Keine notwendigkeit für Bluetooth paarung, die software Bluetooth icon direkt wählt DL24. können)

3) Computer verdrahtete online APP:

Nach dem host ist powered auf, schließen sie den usb-anschluss der computer mit die zur verfügung gestellt daten kabel, und dann installieren die CH340 serial port fahrer, dann den qr-code auf der rückseite der host zu download die entsprechenden APP software. Nachdem die installation abgeschlossen ist, wählen sie die software sie nur installiert und fügen sie Die serielle port modell kann erfolgreich verwendet online, natürlich, diese APP stil mit die installation methode ist auch kompatibel mit dem seriellen port gerät der Bluetooth gerät!

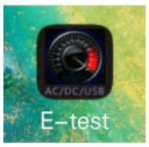
4) Computer Bluetooth drahtlose online APP:

Erste fügen sie die Bluetooth gerät an den seriellen gerät von DL24-SPP auf die computer, dann den qr-code auf der rückseite der host zu download die entsprechenden APP software und shop es. Öffnen sie die software ohne installation und wählen sie die Bluetooth serial port modell nur hinzugefügt. Sie können erfolgreich nutzen online

DL24 / DL24P Color Display Bluetooth Digital Control Curve Version Load Tester App Connection Method

1.Plug DL24/DL24P into the USB charger and the Bluetooth indicator will light up.

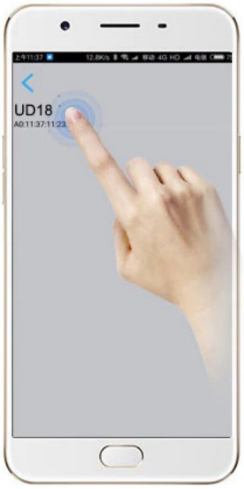
2.Please download the mobile app software,only support Android 5.0 and above.
https://www.mediafire.com/folder/31bc15uhq8odb/E-meter
Then install the E-meter APP software on the phone.



3.Bluetooth on the phone needs to be turned on,Then open E-test APP on the phone

1

When the USB tester is powered on, the Bluetooth indicator is flashing, turn on the E-test App softare icon , and allow Bluetooth to turn on.



2

Click the Bluetooth icon in the upper left corner of the APP to pop up the menu for selecting the USB tester model,DL24-BLE, return to the main APP interface.

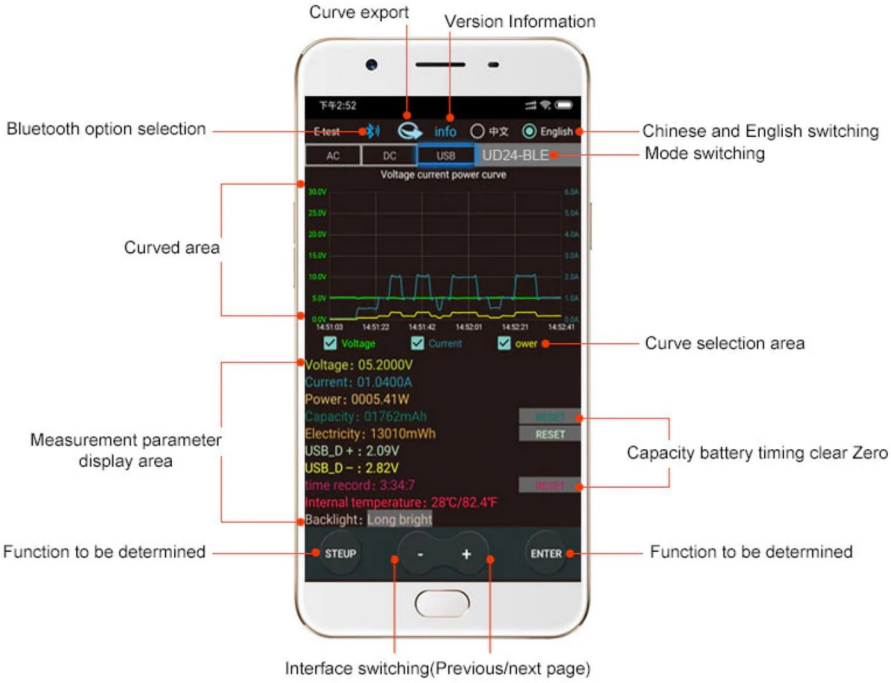
3

During the measurement, the upper right corner shows the model currently online. DL24-BLE The bluetooth icon in the upper left corner turns blue, indicating that the measurement is in online communication.

Mobile APP interface function introduction

Use the mobile phone Bluetooth function to wirelessly connect the product, with the included mobile APP software,Achieve more measurement and control details, leaving measurement technology without boundaries

We have adopted the bluetooth CSR4.1, compatible with 4 g networks, using more advanced technology of bluetooth 4.1, improved the old bluetooth protocol and 4 g networks interfere with each other; New bluetooth 4.1 technology have automatic noise reduction function, and make the bluetooth headset can connect two phones at the same time. And bluetooth CSR4.1 is hip, stable performance, good compatibility, low power consumption is more save electricity



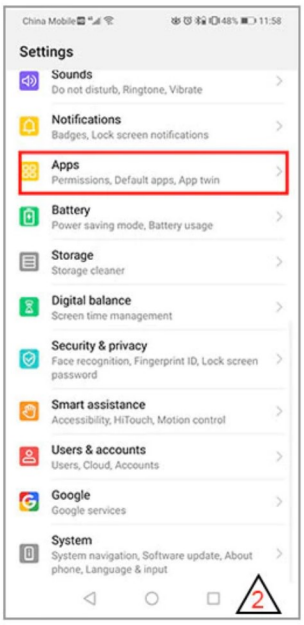
How to find the Bluetooth symbol in E-Test APP

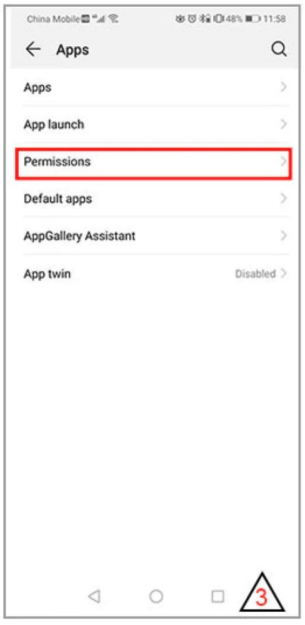
This operating instruction applies to all the company's Bluetooth products (UD18/DT24/DL24/AT3010/DPT3010/T18... etc.)

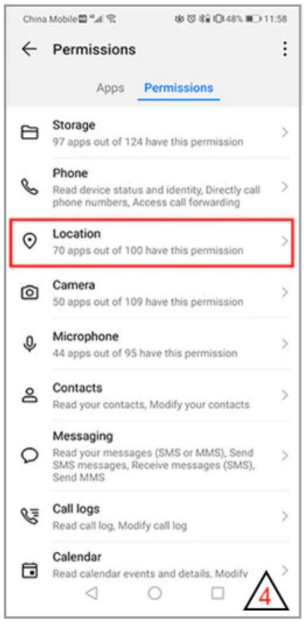
Please open your phone, **Setting**>>find the **Apps**>>manage the **Permissions**>>**Location**>>find our **E-test app**>>find the **storage information** and **location information**>>open the permissions **allow**, you can find us bluetooth symbol In the E-test list.

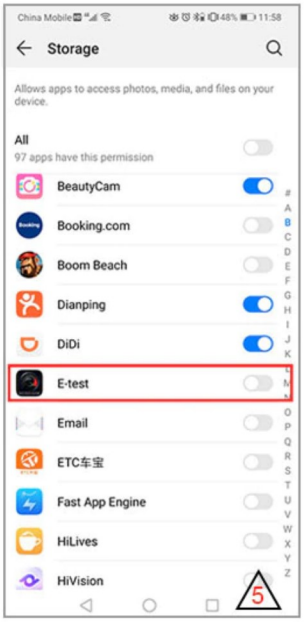
1 Please open your phone settings

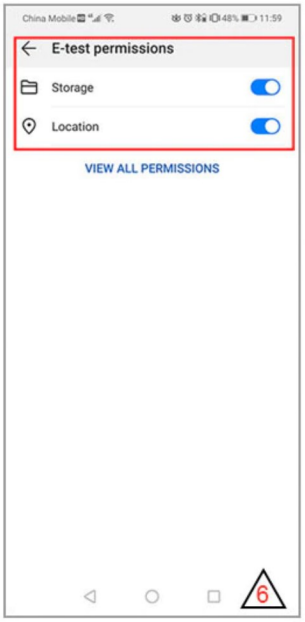
Click settings



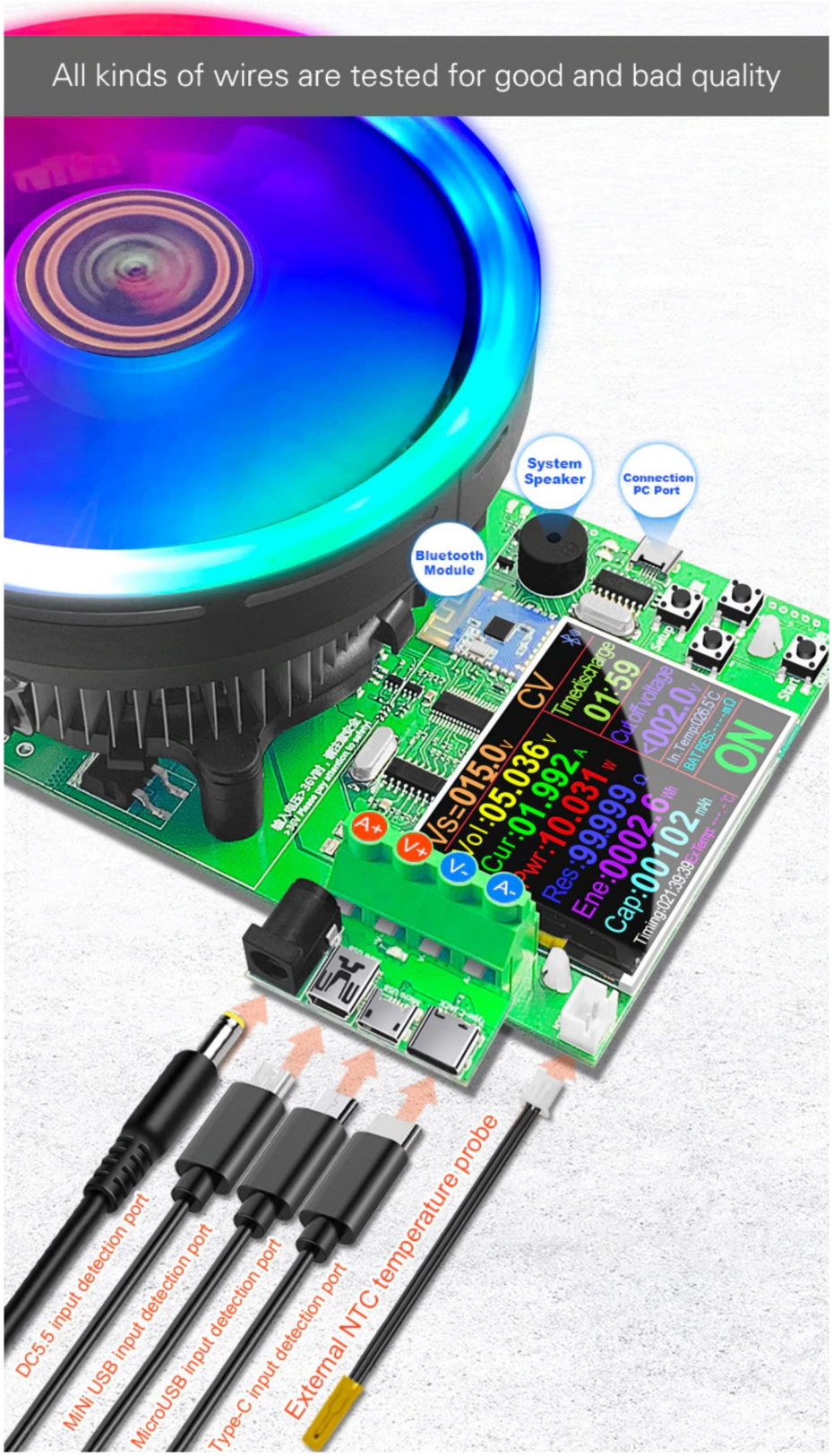








Produkte Anwendungen


All kinds of wires are tested for good and bad quality
System Speaker
Connection PC Port
Bluetooth Module
DC5.5 input detection port
MiNi USB input detection port
MicroUSB input detection port
Type-C input detection port
External NTC temperature probe

Real-time display of internal and external temperature measurement data
Three intelligent security protection
>185A
Overload!
>31A
Over !
>100℃
Over !
External temperature
Internal temperature

Timed constant current discharge aging

Experience the worry-free effect of discharge aging

Long press the setting button, and then short press the setting button when it flashes to switch to the time-limited discharge for timing setting to obtain the worry-free effect of discharge aging. The time-limited discharge can be set to any time countdown from 1-99 hours and 59 minutes, and it will stop automatically when the set time is reached. Discharge can be used as the aging effect of timed shutdown of constant current discharge.

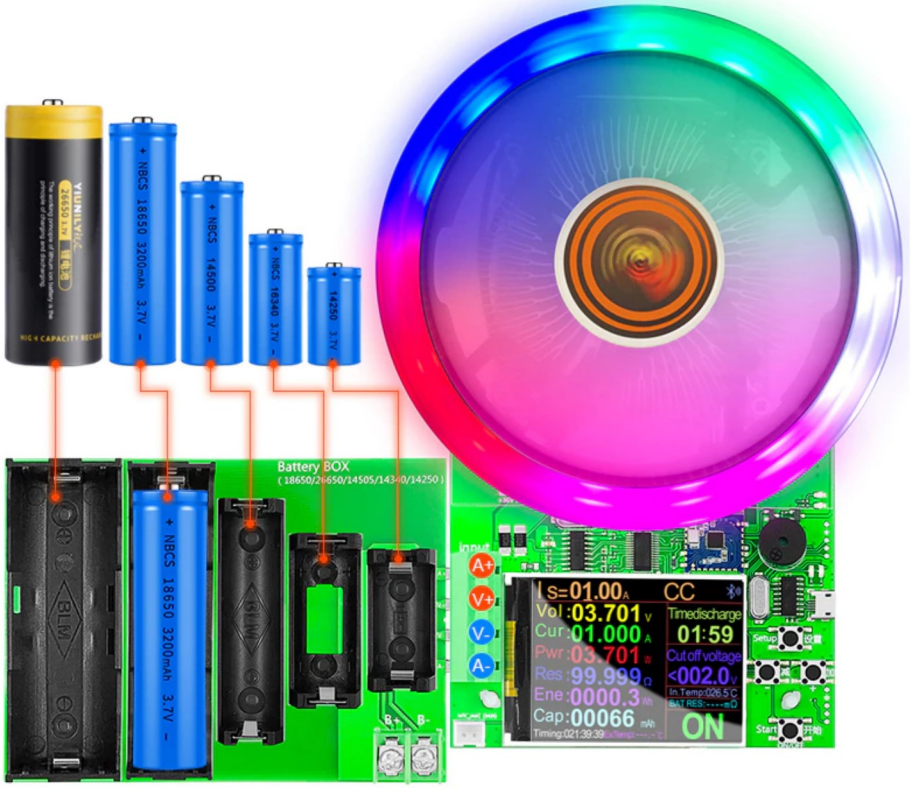
>Cut-off voltage

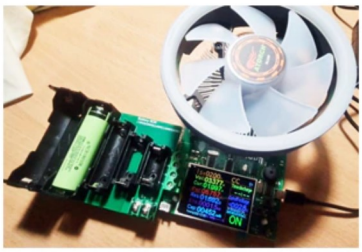
(<000.0 ~ 150V), when the voltage is less than the set value voltage (such as <2.0V), the device will stop discharging!

CC
01:59
ON

Vs:-015.0V
Vol:15.036V
Cur:01.562A
Pwr:23.486W
Res:99.999Ω
Ene:00026Wh
Cap:00102mAh
CV
01:59
ON

100
A+
V+
V-
A-
S=01.98A
CC
Vol:05.132V
Cur:01.986A
Pwr:10.192W
Res:99.999Ω
Ene:0000.3Wh
Cap:08039mAh
Timedischarge
01:59
Cutoff voltage
<002.0V
ON
Setup
Start

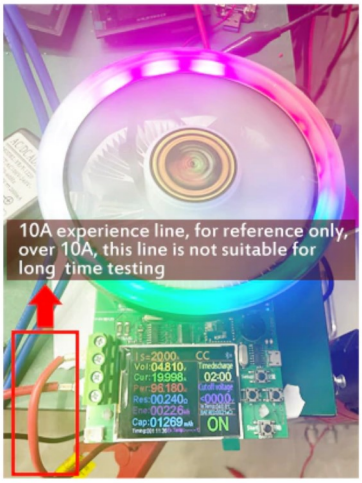




Test all kinds of 18650 battery/3V dry battery, etc. Support low voltage and battery discharge detection

Use the battery box to test various batteries such as 26650/18650/14505/14340/14250, turn on the load switch (OFF/ON) and manually adjust the voltage by setting the button to perform the discharge test. The battery capacity will be quickly known, which is convenient to detect and prevent Buy a battery to buy a dummy battery, test your own DIY battery or battery pack, support low-voltage discharge test, especially practical.

Note: This function test is available only when you buy 18650 battery box

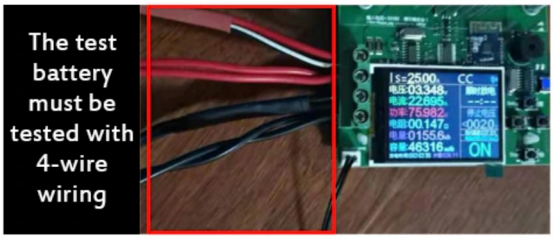


CC mode test Aging discharge current of 20A

Please test in CC mode, except that the 18650 battery voltage needs to be greater than 3.7V to test the 20A current. The alligator clip wire in the picture is a 10A experience line. Please use 4 wires for testing. This picture is only for reference, and the actual product Whichever is true, there are some batteries with virtual power and 20A current cannot be detected.

This product is to test whether the battery is qualified, please pack the whole battery to see if it is original!

Notes:DL24-150W is also suitable for 20A current test



Voltage accuracy evaluation

Precision testing of large professional instruments

Current accuracy evaluation

The voltage difference in the figure is due to the wire voltage difference

Produkt Liste

1.DL24 150W Farbe Display Bluetooth Digital Control Kurve Version Last Tesr x1
2.DC12V 1A netzteil x1
3,2 M PC computer online linie x1
4. temperatur sonde x1
5. rot und schwarz einzigen linie krokodil clip linie x1
6.US zu EU adapter x1

Produkt Liste

1.DL24P 180W Farbe Display Bluetooth Digital Control Kurve Version Last Tesr x1
2.DC12V 1A netzteil x1
3,2 M PC computer online linie x1
4. temperatur sonde x1
5. rot und schwarz einzigen linie krokodil clip linie x1
6.US zu EU adapter x1

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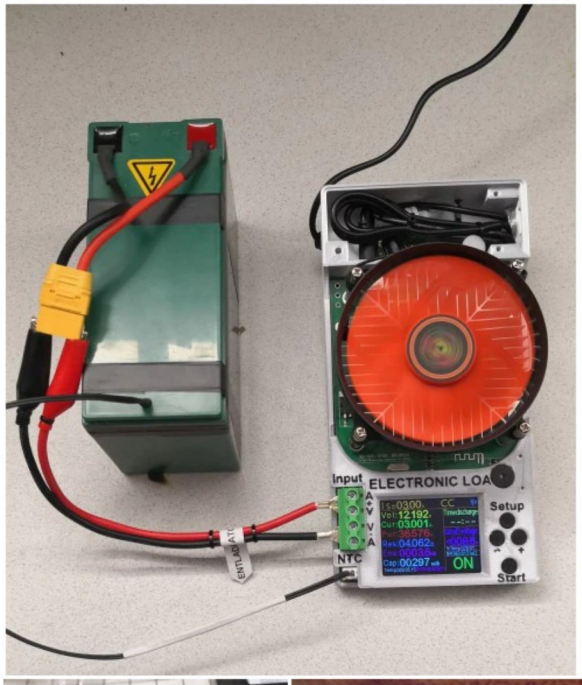
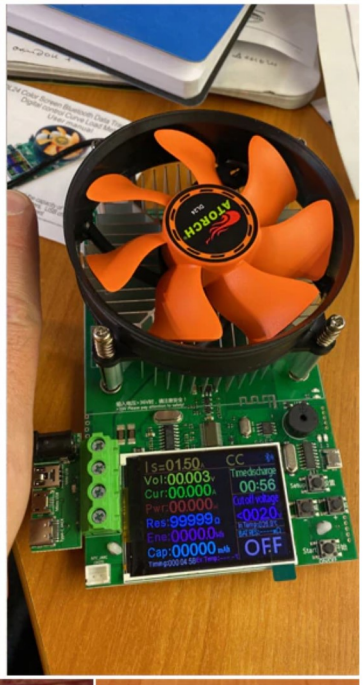
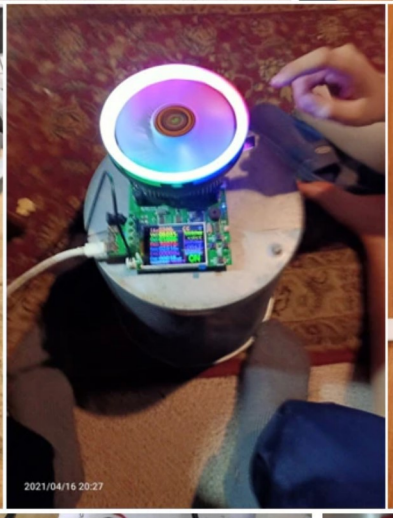
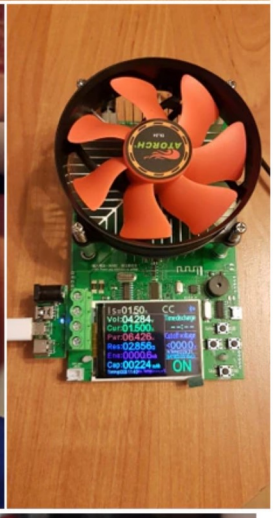
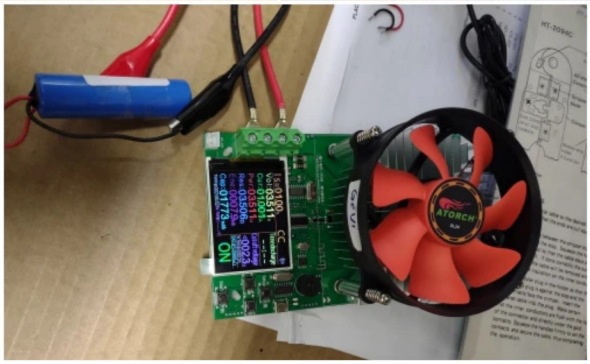
CUSTOMER FEEDBACK

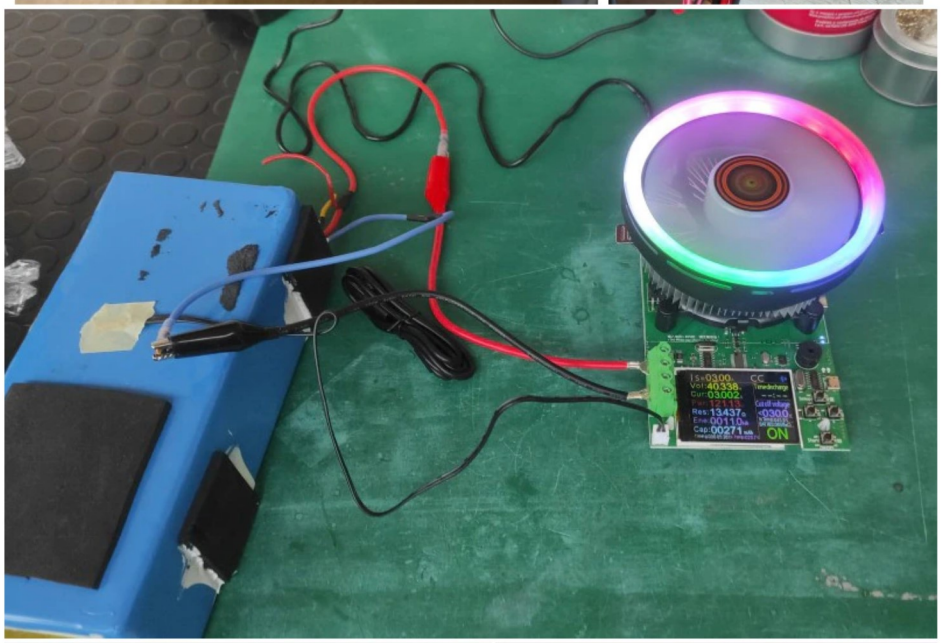


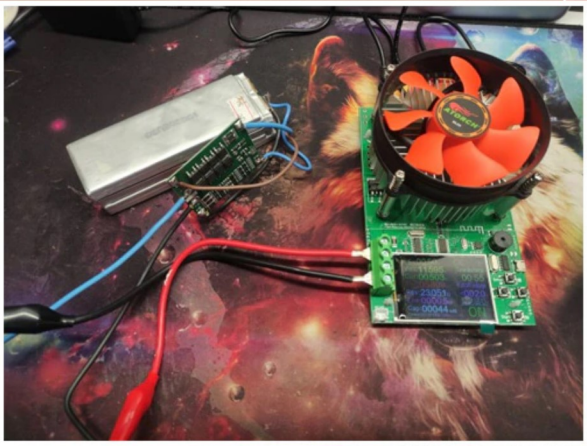




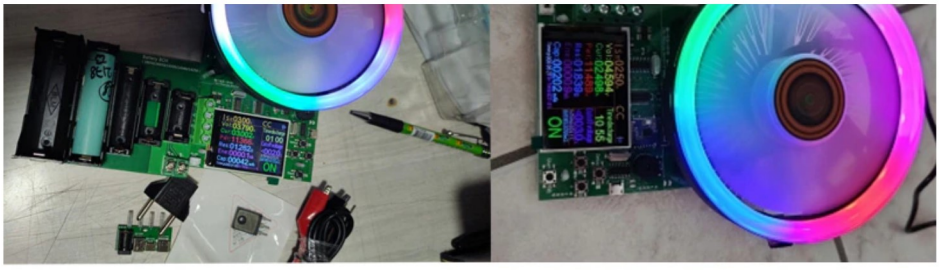






True RMS
200A AC/DC Mini Clamp Meter


Complete!
Timing: 014:58:12

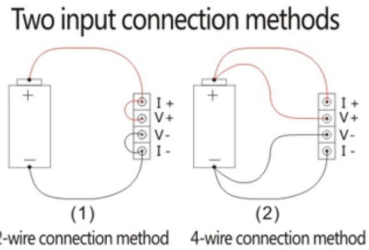


MORE DISPLAYS ARE WAITING FOR YOU TO SHARE

Benutzer manuelle

Die handbücher für DL24 / DL24P sind die gleichen manuelle. Die bilder auf die manuelle sind DL24. Es ist für referenz nur. Bitte erhalten die tatsächlichen produkte. Danke.
Beste wünsche!

DL24 Color Screen Bluetooth Data Transmission Digital control Curve Load Meter User manual



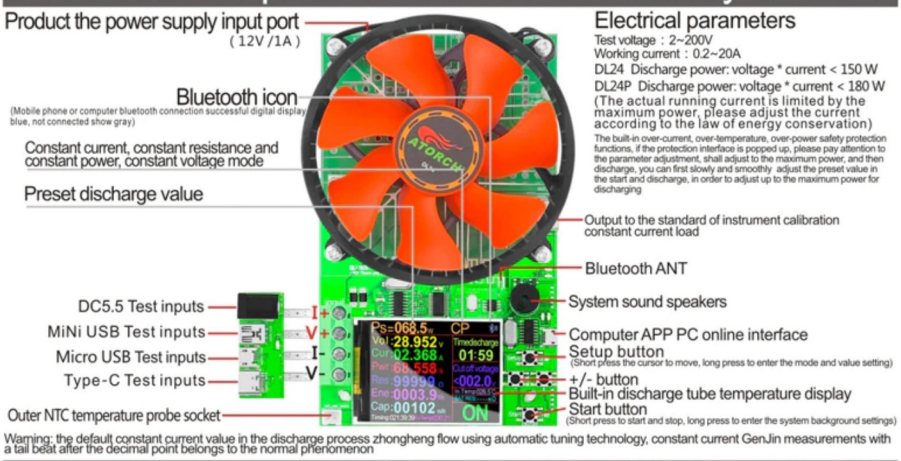
(1) 2-wire wiring method: This method is relatively simple and convenient. I+ and V+ are shorted, I- and V- are shorted, the two holes are combined into oneConnect to the I+ and I- terminals

(2) 4-wire connection method: voltage measurement is not affected by the voltage drop of the wireThe influence of voltage measurement is more accurate. It is recommended to have a certain circuit baseBasic users use this method

This product is used to inspect and test the capacity of various batteries , discharge and aging various power adapters, USB chargers, various mobile power and other power supply equipment

Product line arrangement for technology constantly updated and keys function with minor discrepancy adjustment and manual without prior notice, in accordance with the purchase details page introduction

Introduction and parameters of interface and key functions



Warning: the default constant current value in the discharge process zhongheng flow using automatic tuning technology, constant current GenJin measurements with a tail beat after the decimal point belongs to the normal phenomenon

Fast application method of constant current discharge mode:

Insert the power supply adapter inside the packing box into the power input port of product end, at this time the product is lit up, and then after the power supply under test is connected, the display screen shows the present measured values of the input voltage, short press the set key at this time, the cursor below the constant current digital move the cursor around, again through the short press add or subtract keys, after the corresponding numerical is adjusted to the current value that you need the discharge, again press the start key, the display screen shows "ON", begin the constant current discharge, battery capacity accumulation, and timing; If you need to set a time-limit discharge time and the stop voltage value, please, when the stop of discharging, long press the set key one time, the CC of display interface begin the beating show, then short press set key, moves to the numerical

flicker of limit-time discharge column, the beating numerical can be adjusted by short pressing the plus or minus keys, after setting a short press start key, save and confirm or wait the stop of flicking, automatically save.

Application methods of constant resistance, constant power and constant voltage

Under the state of the product electricity and stop discharge, long press the set key, the CC of display interface begin the beating show, at this time, again short push the add or subtract key, adjustment a few model of CR - CP - CV – CC for cycling the show, after selecting the corresponding function model, and after waiting for the stop of flickering, the system saves and enters into this function model, and then can adjust and open, close, discharge by using the same application methods of constant current discharge model in the above section.

Methods and techniques for the inspecting and measuring of battery capacity and electric quantity

Firstly, Your battery to be measured is fully charged, and then long press the start key of this product to enter the backstage, the accumulated data is reset, and exit the backstage, long press the set key CC again, start flickering, short press the set key to the stop voltage column, after setting your lowest voltage of battery discharge, short press the start key to save, and then set the rated current value of discharge well, short press the start key to start measuring the accumulated capacity value of battery, when the discharge aging is up to the stop voltage value of battery that you set, the system will display a "Complete!" ", indicating that the capacity measuring and testing is completed, at this point, the capacity mAH and power Wh showed on the display screen is the capacity and power value of battery.

Detection methods and techniques for the output voltage and current value and maximum power value of DC power adapter

Connect the output of your power supply to the product, the display screen displays the current voltage value, and then set the nominal current value of the power supply to be tested to this device, and then start the load for 3-6 hours discharge aging. During the process, the temperature of the power supply to be tested is not high and the voltage is stable, indicating that the quality of the power supply under testing is stable, and the

nominal value is accurate without any false marking; in the process of starting "ON" to discharge, by short pressing the +/- key, the current is increased to the moment when the voltage of the power supply under test drops and the voltage is zero, read the current value and power value, this is the maximum output current value and output maximum power value of the power supply under test.

Testing methods and techniques for capacity and electricity quantity of mobile power supply

First, charge your charge pal fully, and then the load capacity and electricity quantity are reset, begin to access this load and set discharge value well, began to discharge until the charge pal runs out, at this time, read the cumulative capacity and power value above the display screen, this is the approximate values for the capacity and electricity quantity of charge pal, treasure because this product inside has the power-off memory function, the discharge can be completed in one time, the discharge process can also divided into the many-times discharge, check the capacity value again until the power of charge pal runs out.

The operation method for one key clear-zero of data: long press the start key, after entering the background, and then short press the setting key to change color and move to the data clear-zero column, and then short press the start key to pop up "OK!"The word indicates that all data is cleared.

Kindly remind: Because the nominal capacity value marked by the charge pal on market at present is mostly the batteries value inside the machine, and thus from the 3.7 V batteries are increased to 5 V or 9 V and other physical capacity difference of voltage, and the voltage loss is produced during the process of voltage rise, so that the above 5 V voltage is tested, the clectric capacity value is far less than the nominal value, according to the experience, according to the assessment of current mainstream brands mobile power, the total loss for the loss of voltage rising plate plus the difference of voltage rise is about 35%, so the true and false of nominal value for the charge pal need to be tested, take the boosting to 5V output voltage as an example, the measured capacity value needs to be multiplied by about 1.35, which is approximately equal to the nominal value of the charge pal itself, this evaluation value can only be taken as the relative value but not as the absolute value.

Testing the rated current value and quality of the charging cable and data cable

Connect as shown in the following figure, when the load is applied, short press +/-, When the voltage drop is 1V less than the no-load voltage, the current value at this point is the current value of the cable line under test.

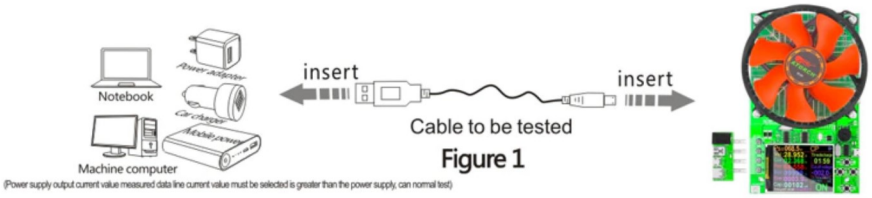


Figure 1

(Power supply output current value measured data line current value must be selected is greater than the power supply, can normal test)

Testing the maximum output current method of the charger and its quality

Connect according to Figure 1, the constant current of the load during discharge is changed to make the voltage drop sharply or the voltage abrupt change to zero. At this time, the current value is the maximum current value that can be output by the charger; again change the load to the nominal current value of charger for the discharge aged 2 ~ 6 hours, the current voltage is stable in the process of aging, the temperature of the charger is also less than 50 degrees or so, indicating the nominal current of this charger conforms to reality with no virtual marking, the charging speed can be satisfied, on the contrary, if the voltage is reduced, the current value difference is too big or the temperature is too high, even U meter alarm to flicker, and there is no output, these belong to the current virtual marking, there is a sign of poor quality, this method is also suitable for the output current test judgment method of all the USB interface.

The download and installation of the online mobile APP and computer APP

Android mobile phone: after scanning the code and entering the link to download and install, and then open the APP, click the bluetooth icon in the upper left corner of the interface, select the model DL24 to connect, return to the APP interface, this time the bluetooth icon changes from grey to blue, indicating the connection and communication are successful; the Apple mobile phone can be downloaded, installed and used in the application search E_test

(Warning: If the bluetooth device model corresponding to J cannot be found in the APP of the electric energy meter, please be sure to open the storage permissions and location information of the device APP in the settings of the mobile phone!)

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