About background software video settings:

150W 300W 450W 600W

https://youtu.be/cXxNlatKvxo

File Download Way and DIY 150W~600W（200V &

3mA~25A/30A/35A/40A）

1, User manual, PC software installation instruction and PC software and Android APP download link : https://www.mediafire.com/folder/7mqy150hmfusv/DL24M

2, IOS APP: search E_test on iphone APP store to download

3, Android APP: search E-test at Google play to down load

4, DIY 150W/DIY 300W/DIY 450W/DIY 600W(V*A*P)

4-wire system detection is more accurate and professional, and it is also compatible with 2-wire system
150W/300W/450W/600W high power discharge aging

Electronic load wiring diagram

(1)   (2)
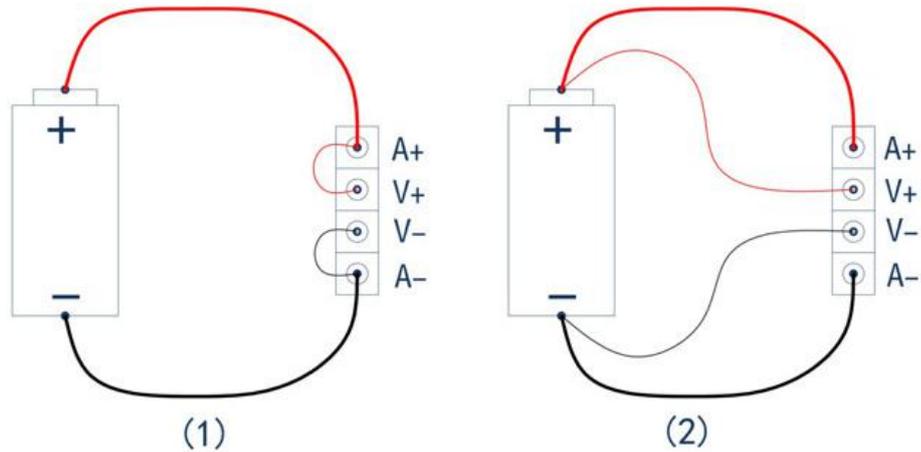
(1) **Two-wire wiring method:** this method is relatively simple and convenient.
   Note: It must be connected to the 2 terminals [A+] and [A-].

(2) **The four-wire wiring method:** the voltage measurement is not affected
   by the voltage drop of the wire, so that the voltage measurement.
   The quantity is more accurate, and it is recommended that buyers with a
   certain circuit basis use this method!

DIY 150W

150W 25A
300W 30A
450W 35A
600W 40A

150W Jump Cap
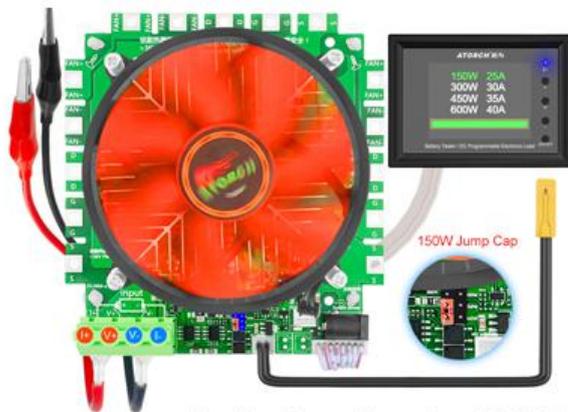
Default setting is 150W

DIY 300W

150W 25A
300W 30A
450W 35A
600W 40A

300W Jump Cap

DIY 450W

150W 25A
300W 30A
450W 35A
600W 40A

450W Jump Cap

DIY 600W

150W 25A
300W 30A
450W 35A
600W 40A

600W Jump Cap
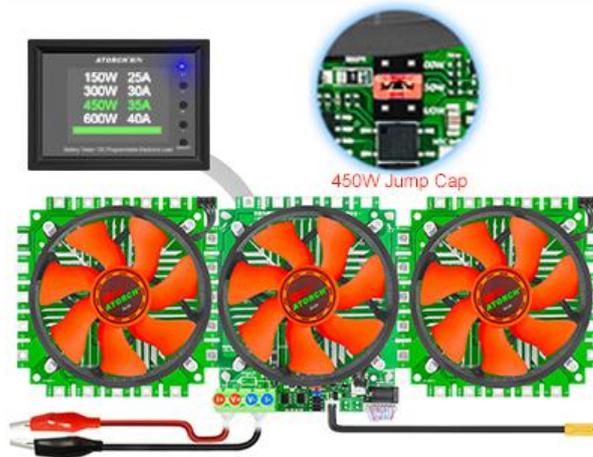
--Product Parameter--

Electrical parameters (V*A

2.4 inch HD screen
Functional test interface

Product jumper position and Setting method(150W~600W)

(DIY 150W / DIY 300W / DIY 450W / DIY 600W)

When product leave the factory, the default is: 150W (the jumper has been set to 150W)

When this product is at different powers, you need to set the jumper, please follow the following method to set！

@150W 3mA~25A (V*A<150W)

@300W 3mA~30A (V*A<300W)

@450W 3mA~35A (V*A<450W)

@600W 3mA~40A (V*A<600W)

Power 150W jump options and software settings

Power 300W jump options and software settings

Power 450W jump options and software settings

Power 600W jump options and software settings
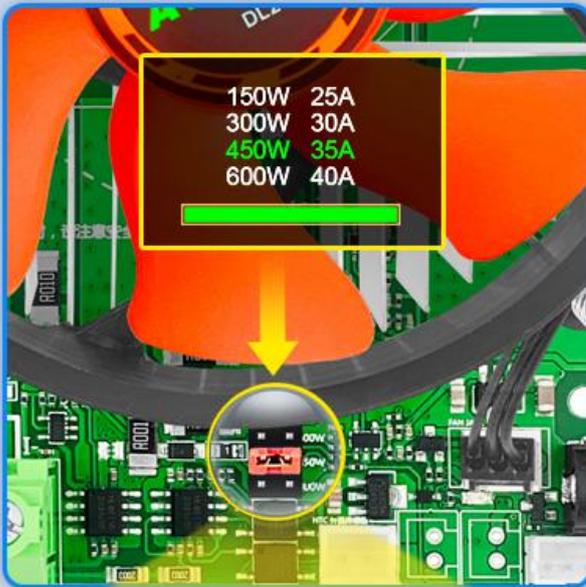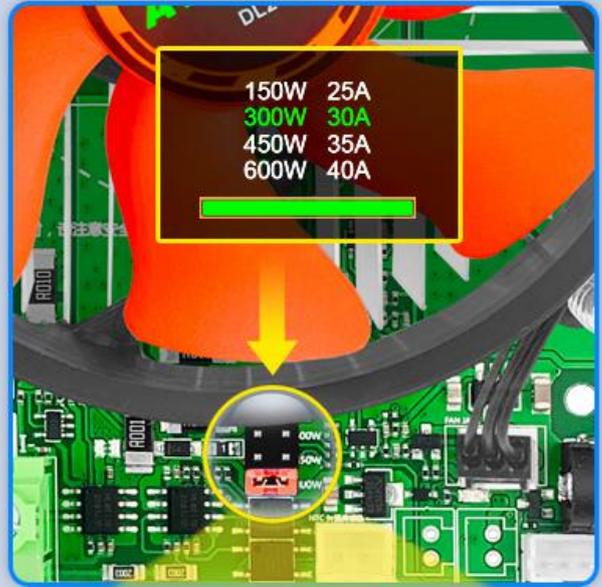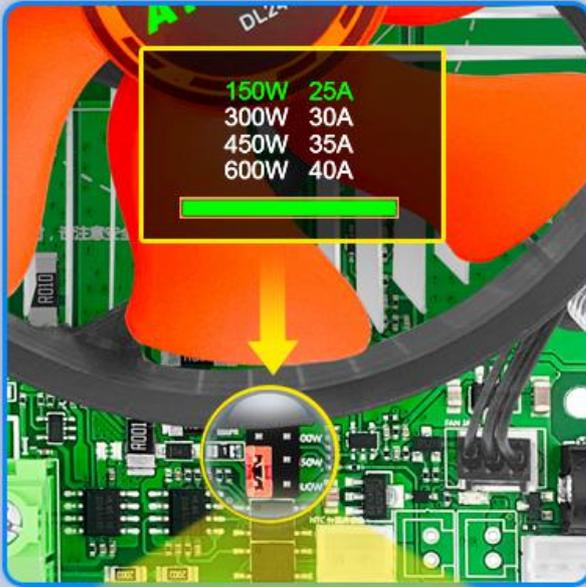
150W splicing method schematic diagram

When the system is not supplying power, press and hold the M button and do not let go. Then power supply is to enter the splicing power option and jump to the actual power value before letting go.
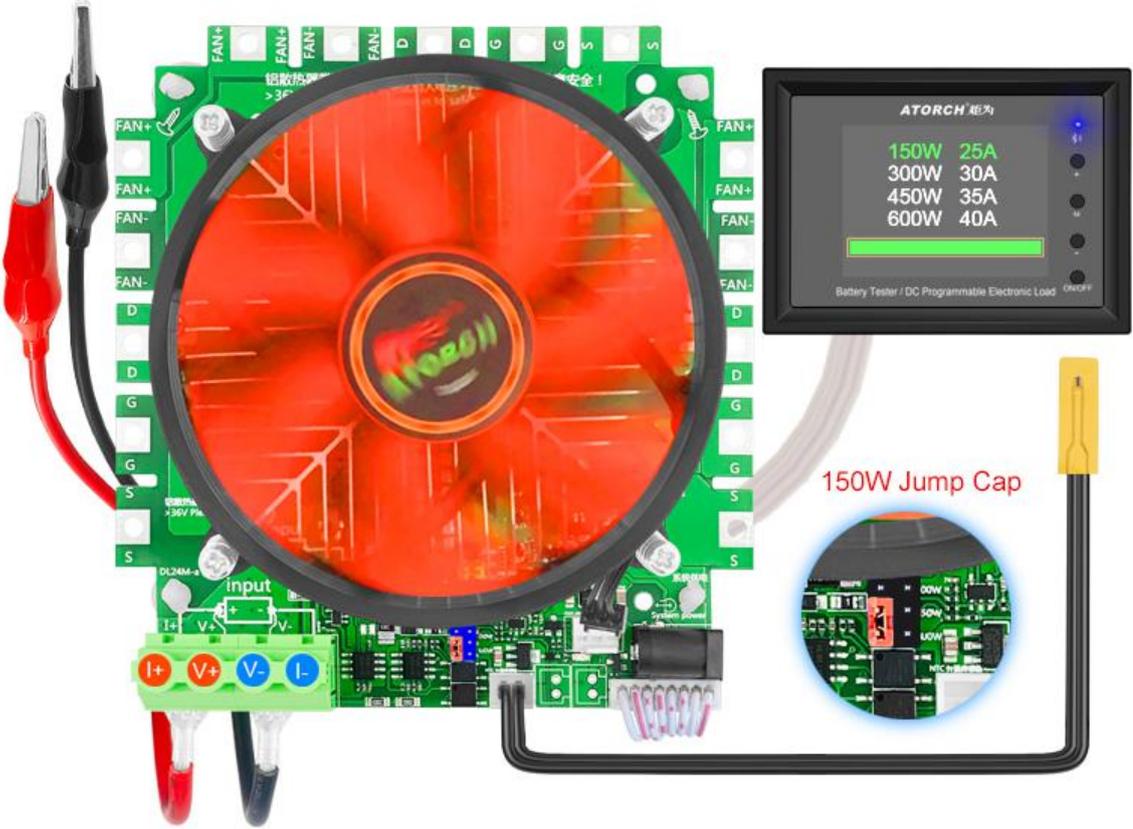
150W Jump Cap

300W splicing method schematic diagram

When the system is not supplying power, press and hold the M button and do not let go. Then power supply is to enter the splicing power option and jump to the actual power value before letting go.

300W Jump Cap

Splicing Method 1

Splicing Method 2

Splicing Method 3

450W splicing method schematic diagram

When the system is not supplying power, press and hold the M button and do not let go. Then power supply is to enter the splicing power option and jump to the actual power value before letting go.

450W Jump Cap

Splicing Method 1

Splicing Method 2

Splicing Method 3

600W splicing method schematic diagram

When the system is not supplying power, press and hold the M button and do not let go. Then power supply is to enter the splicing power option and jump to the actual power value before letting go.

600W Jump Cap

150W	25A
300W	30A
450W	35A
600W	40A

ATORCH

Battery Tester / DC Programmable Electronic Load
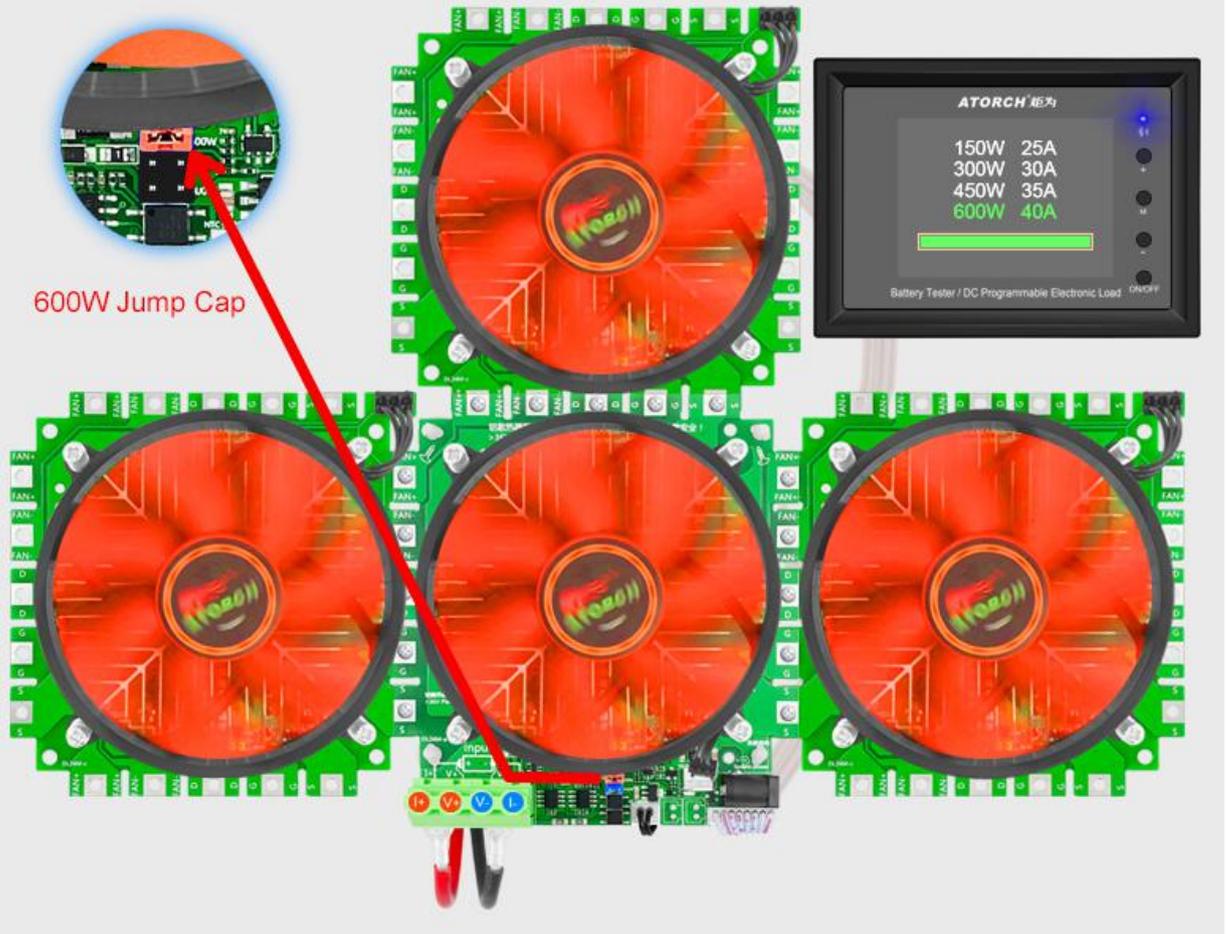
4-wire system detection is more accurate and professional, and it is also compatible with 2-wire system 150W/300W/450W/600W high power discharge aging
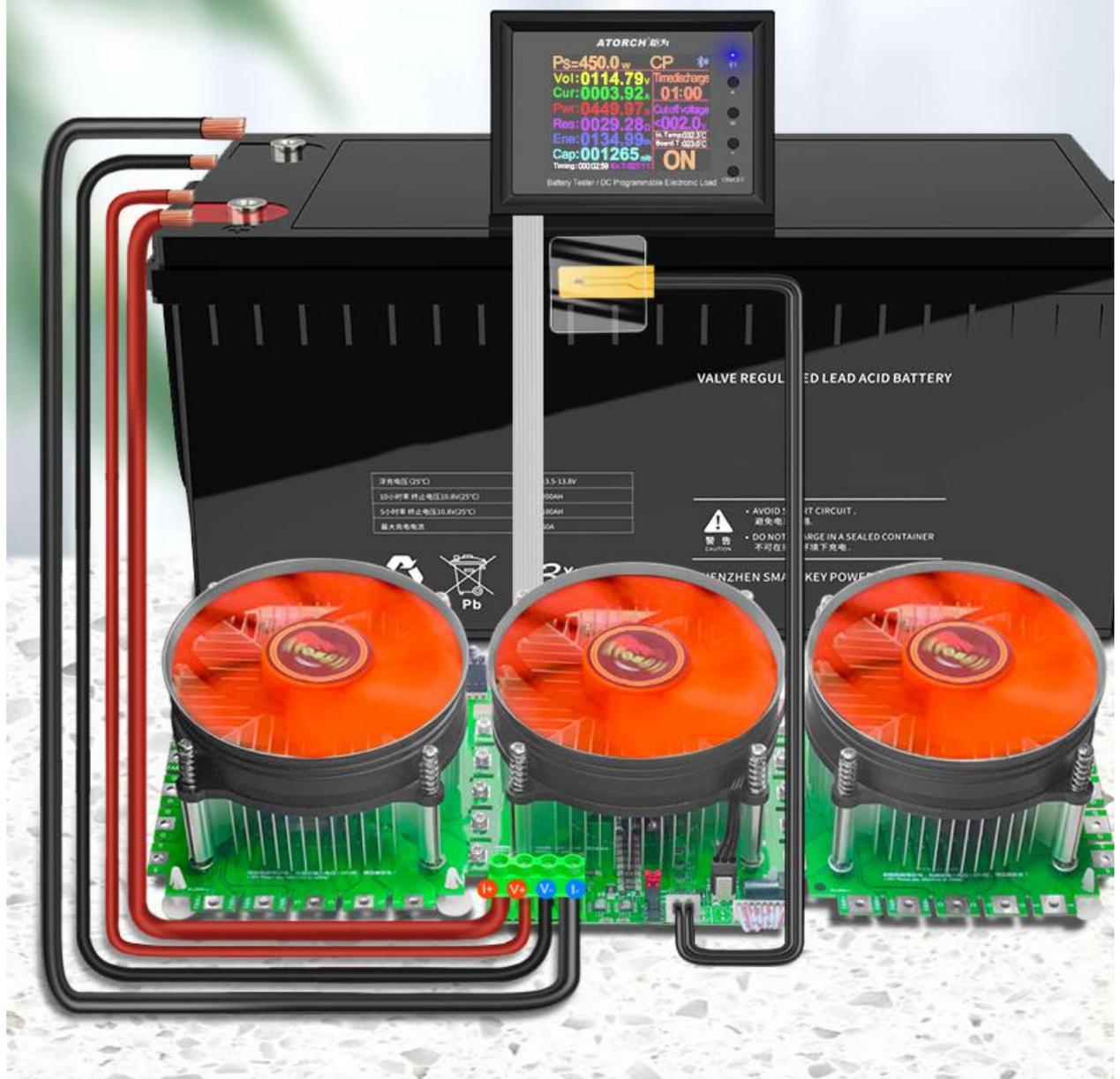
Two kinds of 1mA or 10mA current test gear

Operation method: Long press the "ON/OFF" Button to enter the background, press the "M"

Button, select 05 item: Precision of current: O10mA ●1mA, set by "+" or "-"

(Tips: Start the test with a minimum of 3mA)

1mA measurement

10mA measurement
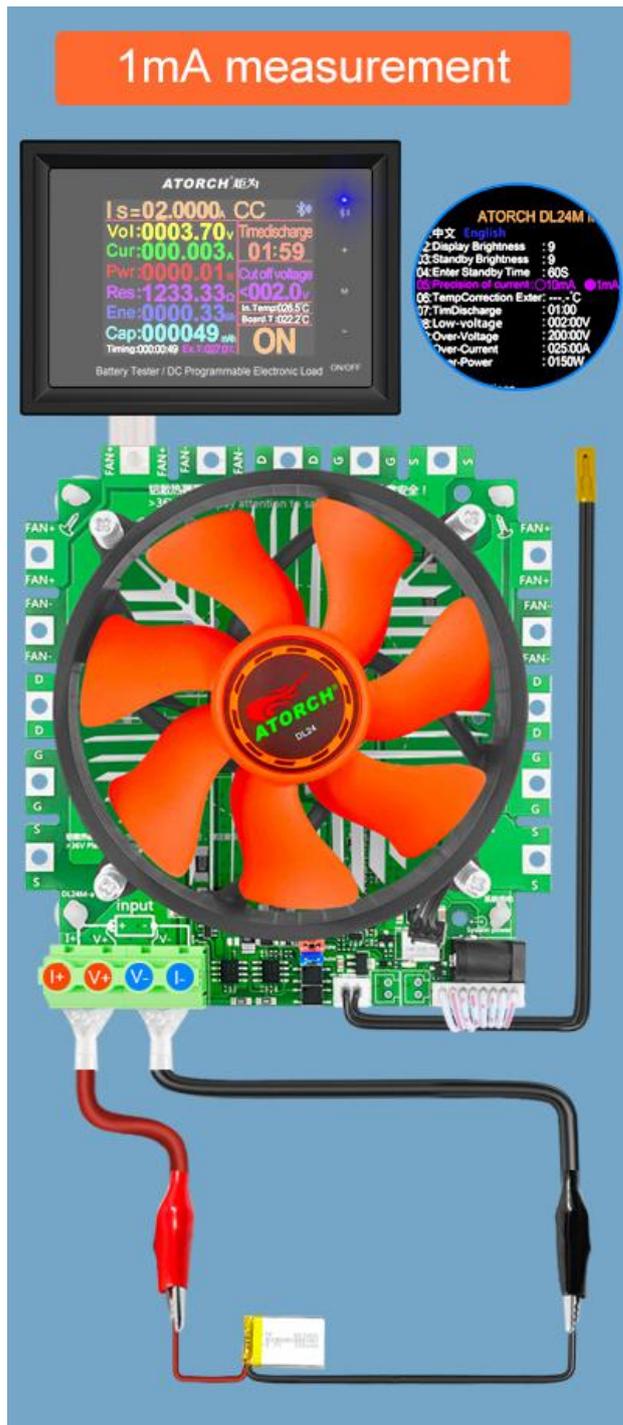
Introduction to the key operation of frequently used functions

1)Short press the ''ON/OFF'' button to start and stop, short press the upper left corner of the "M" button to move the cursor and then adjust the corresponding value with the "+/- " button

2) Long press the "+/- " button at the same time to clear all accumulated data such as the current capacity, battery time, etc. (Long press the "ON/OFF" button to enter the background ，also can be cleared in the background menu)

3) Long press the "M" button and the function mode starts to flash, then short press the "+/-"

button to select the function (CC/CV/CR/CP/BRT/PT)

4) In OFF mode, long press the "ON/OFF" button to enter the background interface, then short press the "M" button to switch the setting column, and the "+/-" button to adjust the number

5) Short press the "+/-" button in the constant current accuracy column of the background setting interface to switch the constant current accuracy (10mA Or 1mA)

6) When the system is not supplying power, press and hold the "M" button and do not let go. Then power on again. Enter the splicing power option and jump to the actual power value before let go

7) Long press the "M" button the function mode starts to flash, short press the "M" button again to enter the setting adjustment value of the time-limited discharge and Cut off voltage column value

Panel Main buttons and description

Ⅰ：Bluetooth indicator（Flashing waiting for Bluetooth connection，Long light indicates successful connection）

Ⅱ："+" Vave Increase Button（Short press the button to increase the number, long press the button to increase continuously,When the mode is flashing, short press the button to cycle backwards）

Ⅲ："M" Set Buton（Long press "M" key to start function mode, press "+" or "-" key to switch CC/CV/CP/CR/BRT/PT mode, long press "M" key to start function mode, short press "M" again Key to switch between Time Discharge and Cut off voltage. Press the "+" or "-" key to set the value, the default is OFF）

Ⅳ："-" Value Reduce Buton（Short press the button to decrease the number and long press the button to decrease continuously. When the mode is flashing, short press to cycle forward）

Ⅴ："ON/OFF" Run ON/OFF Button(Short press the button, it is ON or OFF

Long press the button to enter the product background settings, and use the "M" button and "+" or "-" button to set the parameters）

ATORCH 炬为

Is=**02.0000**A CC

Vol:**0003.70**v | Timedischarge
Cur:**000.003**A | **01:59**
Pwr:**0000.01**w | Cut off voltage
Res:**1233.33**Ω | **<002.0**v
Ene:**0000.33**Wh | In.Temp:026.5°C
Cap:**000049**mAh | Board.T:022.2°C
Timing:000:00:49 Ex.T:027.0°C | **ON**

Battery Tester / DC Programmable Electronic Load ON/OFF

Ⅰ Bluetooth Indicator
Ⅱ Value Increase Button
Ⅲ Set Button
Ⅳ Value Reduce Button
Ⅴ Run ON/OFF Button

Host Parameters and description

1.Test various DC power inputs

2.MiNi USB detection port inputs

3.Micro USB detection port inputs

4.Type-c USB detection port inputs

5.DIY assembly Different power reserve jumper positions（150W/300W/450W/600W）

6.External NTC temperature probe

7.DC5.5 system power supply (must supply DC12V 1A)

8.8p cable connected to the panel

9.Increase the power and expand the interface

Fully automatic internal resistance test

Power supply DC12V 1A

8p cable connected to the panel

Temperature probe interface

150W/300W/450W/600W jumper position

Type-c USB detection port inputs

Test various DC power inputs

MiNi USB detection port inputs

Micro USB detection port inputs
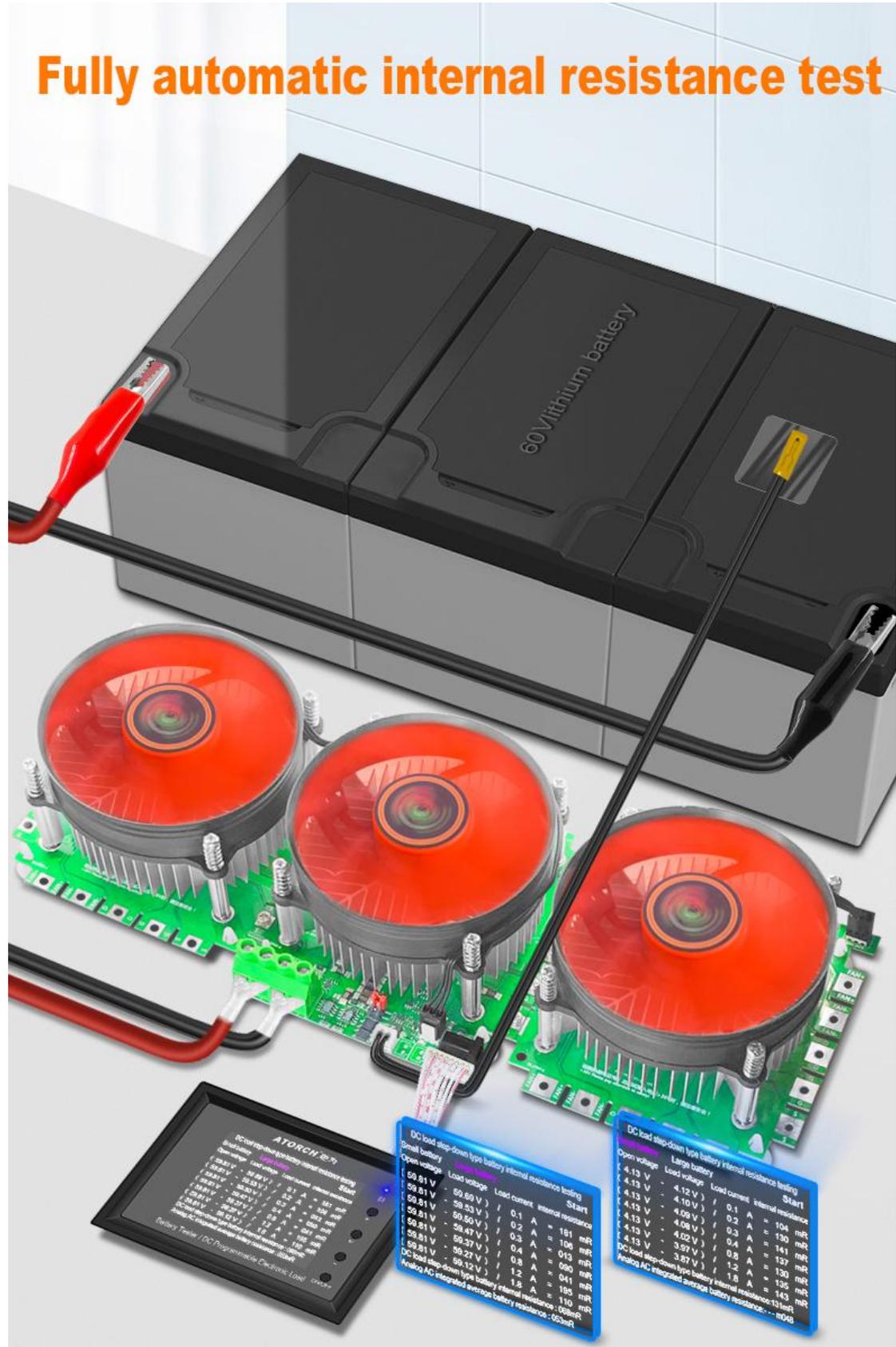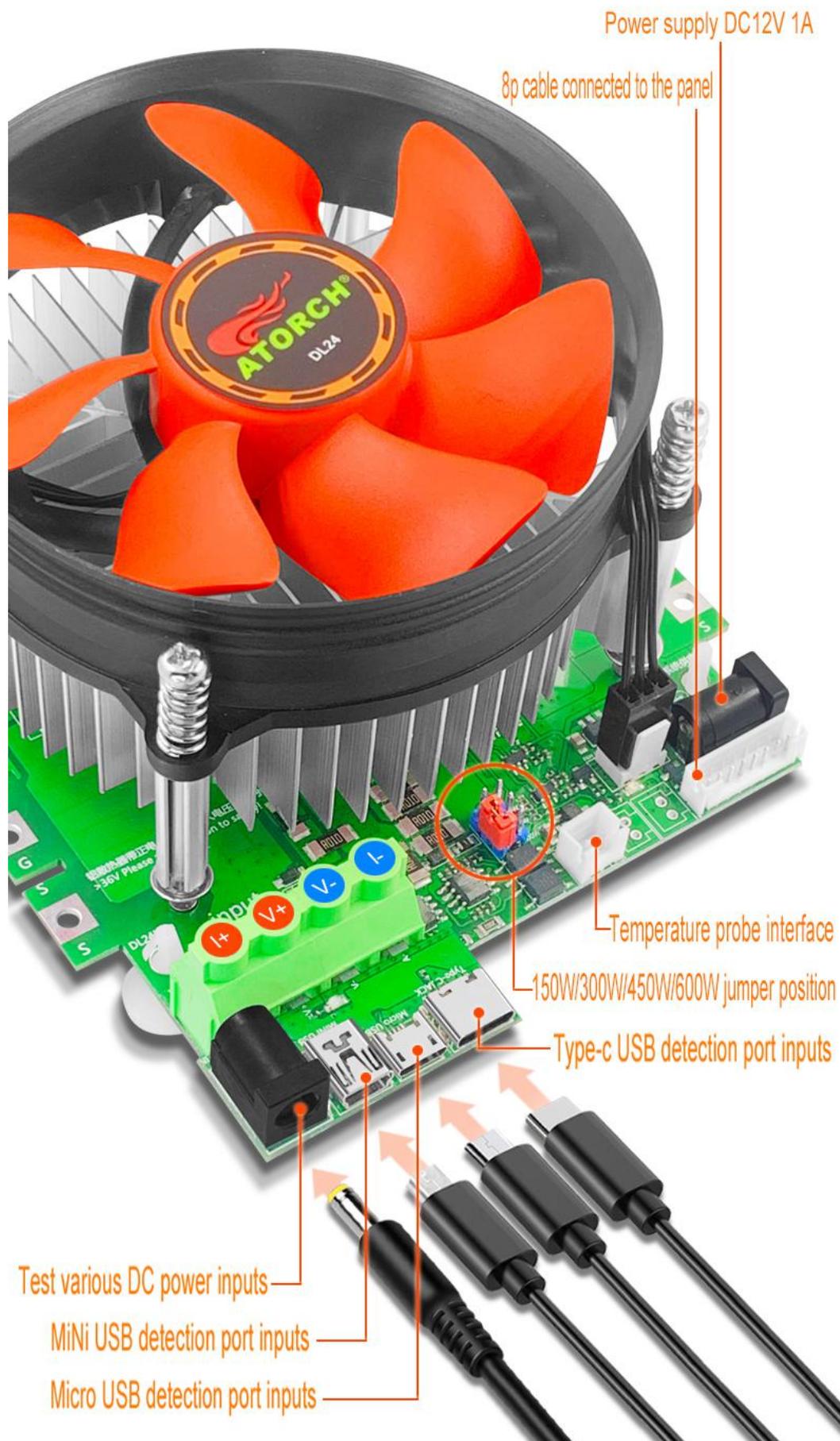
Timed discharge and Cut-off voltage discharge

Can be set 1-99H59M

ATORCH®炬为

Ps=**043.4**w   CP

Vol:**0015.02**v   Timedischarge

Cur:**0002.89**A   **01:59**

Pwr:**0043.40**w   Cut off voltage

Res:**0005.19**Ω   **<002.0**v

Ene:**0103.72**Wh   CPU Temp:032.3°C

Cap:**000595**mAh   Fan Temp:022.2°C

Timing:000:02:39   Ex.T:026.5°C   **ON**

+

M

−

Battery Tester / DC Programmable Electronic Load ON/OFF

Can be set Cut-off discharge voltage
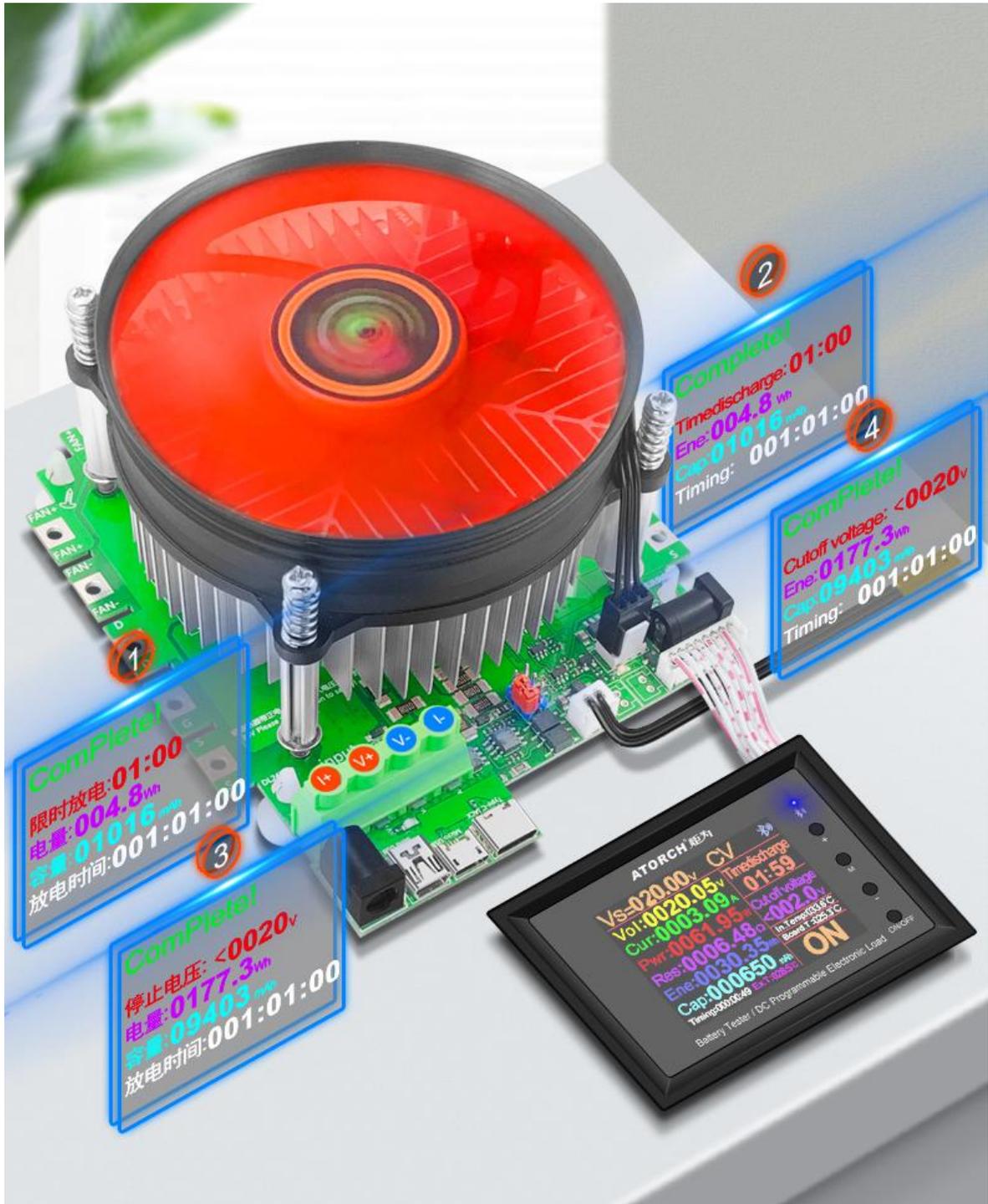
Test all kinds of data cables/chargers

Test/discharge/aging/get it all

Play and test various USB data cables/chargers, first use a data cable

Connect the corresponding interface of the load, connect as shown in the figure below, when the load is turned on in the constant current mode

Adjust the current so that the voltage drop is 1V less than the no-load condition

The current value at this time is the current value of the measured data line

Through testing various DC power adapters

Play and measure the current, voltage, power and other parameters of various DC power adapters
Use the DC power supply to connect the DC independent power supply port of the load meter, and then use the "Settings" button to connect as shown in the figure below.
Precisely adjust the current to test the voltage and rated current of the power supply
The DC power supply can also be aged for a long time, with strong functions, simple operation, convenient and quick testing

Intelligent one-key full automatic detection of DC power supply

PT mode of charger current power performance

Press and hold the M button in the menu until the mode bar flashes, wait a while *after pressing*

the ten-key PT mode
Automatically enter the DC power supply/charger auto-detector mode, then plug in your tested power supply and
Charger, then short press the start button, it will automatically start to run for a period of time

and then report

Displays 4 kinds of important numerical results, making complicated tests instantly simplified, accurate, and easy to use

ATORCH 正力

Dc power/Charger energy detector

Voltage down	Real-time voltage	Load current	Output power
(0.04 V)	45.05 V	X 0.5 A	= 022.06W
(0.09 V)	45.00 V	X 1.0 A	= 044.70W
(0.18 V)	44.91 V	X 2.0 A	= 089.79W
(0.27 V)	44.82 V	X 3.0 A	= 134.42W
(5.21 V)	39.88 V	X 0.5 A	= ERR W

Rated output current:01.6A   Rated output power:018.41W
Max output current:01.6A   Max output power:020.80W
Remark:This result not as an absolute value, but as a relative value.

Test all kinds of power bank capacity

Buy this product, you can freely modify it into your favorite style for reference only

Four operating modes of operation

1.Constant current operation（CC）

2.Constant resistance operation（CR）

3. Constant power operation（CP）

4. Constant voltage operation（CV）

Protection settings

1.Overload protection

2.Overcurrent protection

3. High temperature protection

Chinese Protection reminder

>185ᴡ
过载保护!

Overload protection

>21ᴀ
过流保护!

Overcurrent protection

>100℃
高温保护！

High temperature protection

English Protection reminder

>185ᴡ
Overload!

Overload protection

>21ᴀ
Over !

Overcurrent protection

>100℃
Over !

High temperature protection

Device background settings (Chinese / English settings)

1.Chinese settings

2.English settings

Product test report

Good News

E_Test	E-test
AC DC USB UD18	AC DC USB UD18
Voltage current power curve	Voltage current power curve
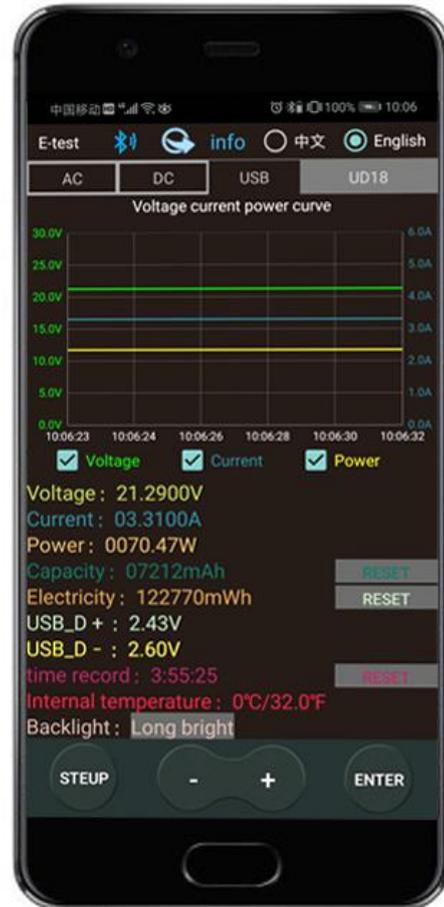
iPhone APP + **Android APP**

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

Compatible with the current mainstream four online APPs
(Android/IOS/PC system) online testing

IOS App   Android App   PC Computer App

1) Apple Mobile APP:

Please search for E_test in the application store to download and install, then click the Bluetooth APP icon to open the software, and then click the Bluetooth icon above the software to enter the selection DL24-BLE to connect, you can achieve mobile phone remote wireless remote control settings and Measurement function, the discharge status can be viewed at any time on the mobile phone, various data cleaning is visible, the voltage and current power curve of the discharge, etc.

2) Android phone APP:

Scan the QR code on the back of the host to download the corresponding APP software or Android APP: search E-test at Google play to down load . After the installation is complete, open the software and click the Bluetooth icon to enter the direct selection of DL24-BLE to successfully use it online. (No need for Bluetooth pairing, the software Bluetooth icon directly selects DL24. can)

3) Computer Bluetooth wireless online APP:

First add the Bluetooth device to the serial port device of DL24-SPP on the computer, then scan the QR code on the back of the host to download the corresponding APP software and store it. Open the software without installing and select the Bluetooth serial port model just added. You can successfully use online

DL24M Color Display Bluetooth Digital Control Curve Version Load Tester App Connection Method
150W/300W/450W/600W

1. Plug `DL24M` into the USB charger and the Bluetooth indicator will light up.
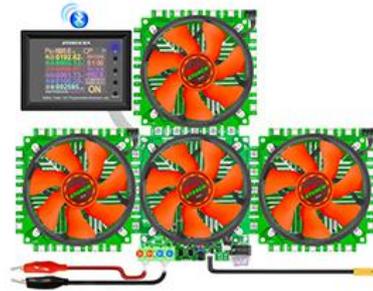
2. Please download the mobile app software, only support Android 5.0 and above.

https://www.mediafire.com/folder/31bc15uhq8odb/E−meter

Then install the E−meter APP software on the phone.
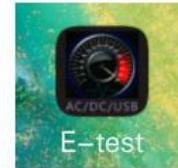
3. Bluetooth on the phone needs to be turned on, Then open E−test APP on the phone

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. DL24M-BLE return to the main APP interface.

③ During the measurement, the upper right corner shows the model currently online. DL24M-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 t
echnology have automatic noise reduction function, and make the bluetooth headset can connect two phones at the same time. And bluetooth CSR4.1 c
hip, stable performance, good compatibility, low power consumption is more save electricity

Curve export   Version Information

Bluetooth option selection

E-test   info   ○ 中文   ◉ English   Chinese and English switching

AC   DC   USB   UD24-BLE   Mode switching

Voltage current power curve

Curved area

Voltage Current ower   Curve selection area

Voltage: 05.2000V
Current: 01.0400A
Power: 0005.41W
Capacity: 01762mAh   RESET
Electricity: 13010mWh   RESET
USB_D + : 2.09V
USB_D − : 2.82V
time record: 3:34:7   RESET
Internal temperature: 28℃/82.4℉
Backlight: Long bright

Measurement parameter
display area

Capacity battery timing clear Zero

Function to be determined   STEUP   −   +   ENTER   Function to be determined

Interface switching(Previous/next page)

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
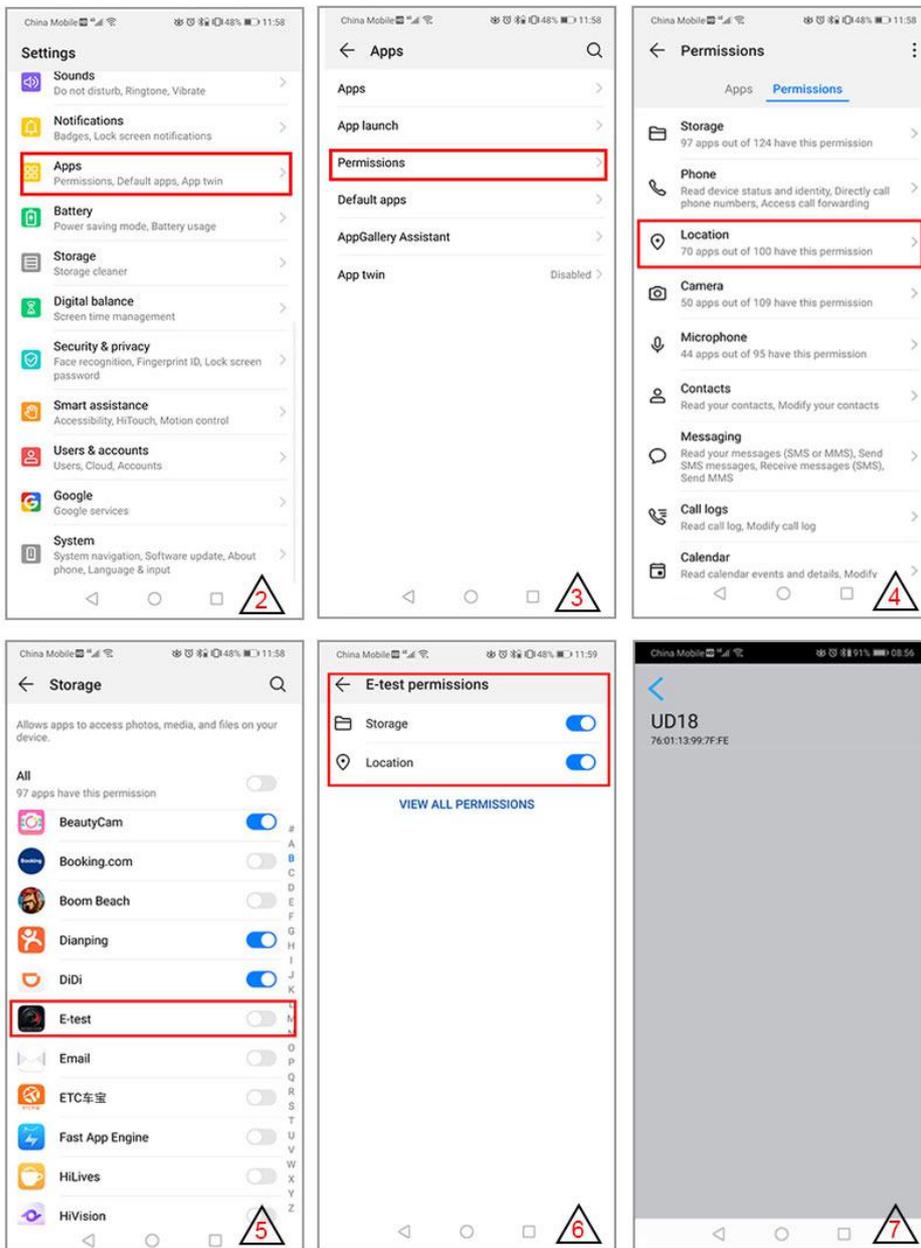
Product size and description

■ Panel size **■ Installation size**

109.8mm 85.7mm
63.0mm
118.8mm 53.0mm
76.0mm

Comes with self-adhesive,
which can be torn apart for use
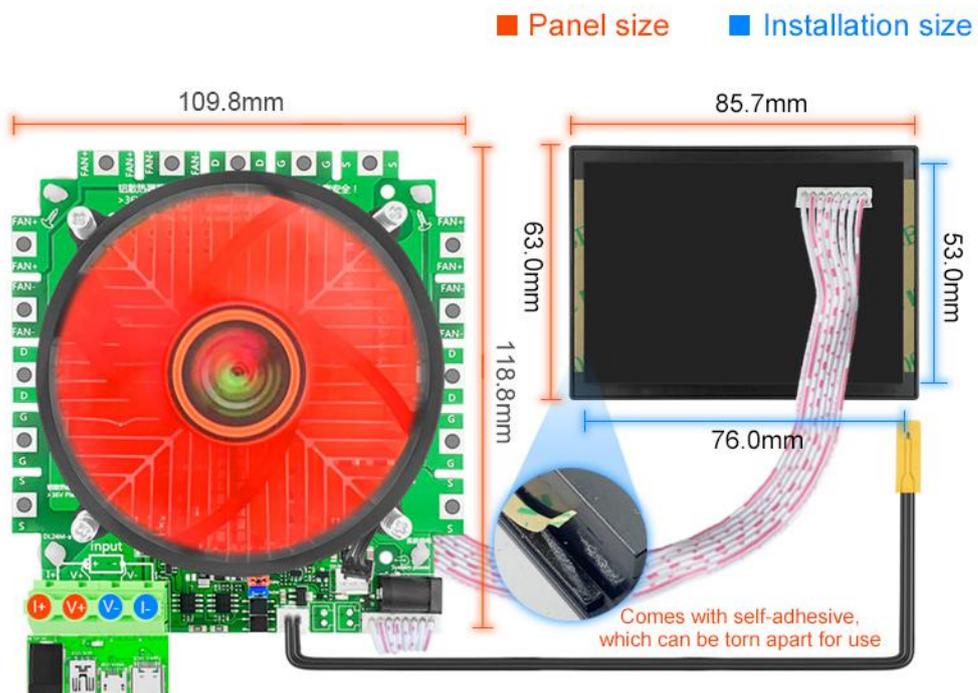
150W Product list

1.DL24M -150W Color Display Bluetooth Digital Control Curve Version Load Tesr x1

2.DC12V 1A power supply x1

3.Male and female screws X5 sets

4.Temperature probe x1

5.Red and black single line crocodile clip line x1

6.US to EU adapter x1

ATORCH®
150W
DL24M

| DC Power | Alligator line 10A | Temperature probe | Panel connection line | Adapter board |

ATORCH 矩为

S=02.000ₐ CC
Vol:0012.25ᵥ Timedischarge
Cur:0002.00ₐ 01:59
Pwr:0024.50ᵥ Cutoff voltage
Res:0006.12Ω <002.0ᵥ
Ene:0000.33ₕ CPUTemp:026.5°C
Cap:000027ₘₐ EssTemp:022.2°C
Timing:000:00:49 Ex:T:027.51 ON

Battery Tester / DC Programmable Electronic Load

+

Battery Box

I+ V+ V- I-
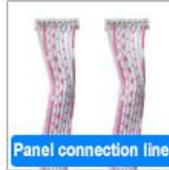
Power supply DC12V>1A

Male and Female Screws x 5set

DL24M Voltage: 200V Current: 25A Power: 150W

300W product list

1.DL24M-150W Host Color Display Bluetooth Digital Control Curve Version Load Tesr x1

2.DC12V 1A power supply x1

3.Male and female screws X5 sets X2

4.Temperature probe x1

5.Red and black single line crocodile clip line x1

6.US to EU adapter x1

7.150W fan accessories X1

ATORCH
300W
DL24M

| DC Power | Alligator line 10A | Temperature probe | Panel connection line | Adapter board |

+ Battery Box

ATORCH 耗为

Ps=300.0 w   CP
Vol:0052.72v   Time discharge
Cur:0005.69A   01:00
Pwr:0299.97w   Cut of voltage
Res:0009.26Ω   <002.0v
Ene:0089.99wh   In.Temp:012.3°C
Cap:000602 mAh   Board.T:023.0°C
Timing:000:02:59   Ex.T:027.1°C   **ON**

Battery Tester / DC Programmable Electronic Load

32位 ARM® Cortex® CPU内核
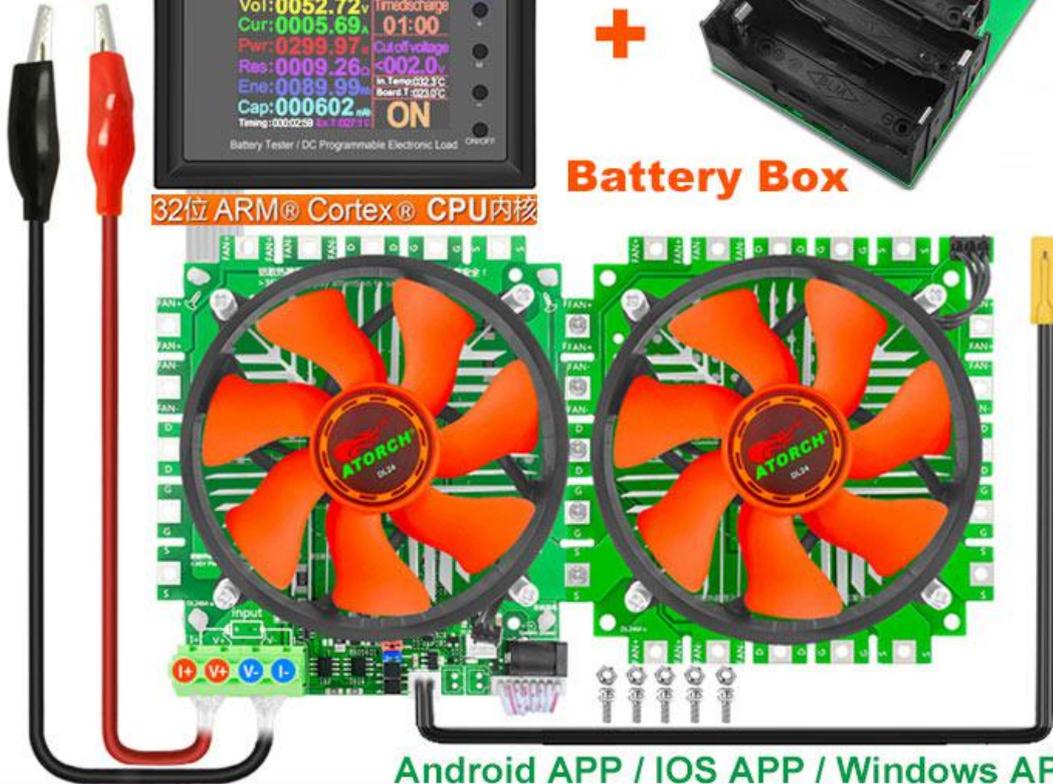
Android APP / IOS APP / Windows APP

DL24M Voltage: 200V Current: 30A Power: 300W

300W product list

Default is 150W

Host panel
X1PCS

150W fan accessories
X1PCS

Male and female screws
X2PCS

X1PCS	X1PCS	X1PCS	X1PCS	X1PCS
DC Power	Alligator line 10A	Temperature probe	Panel connection line	Adapter board
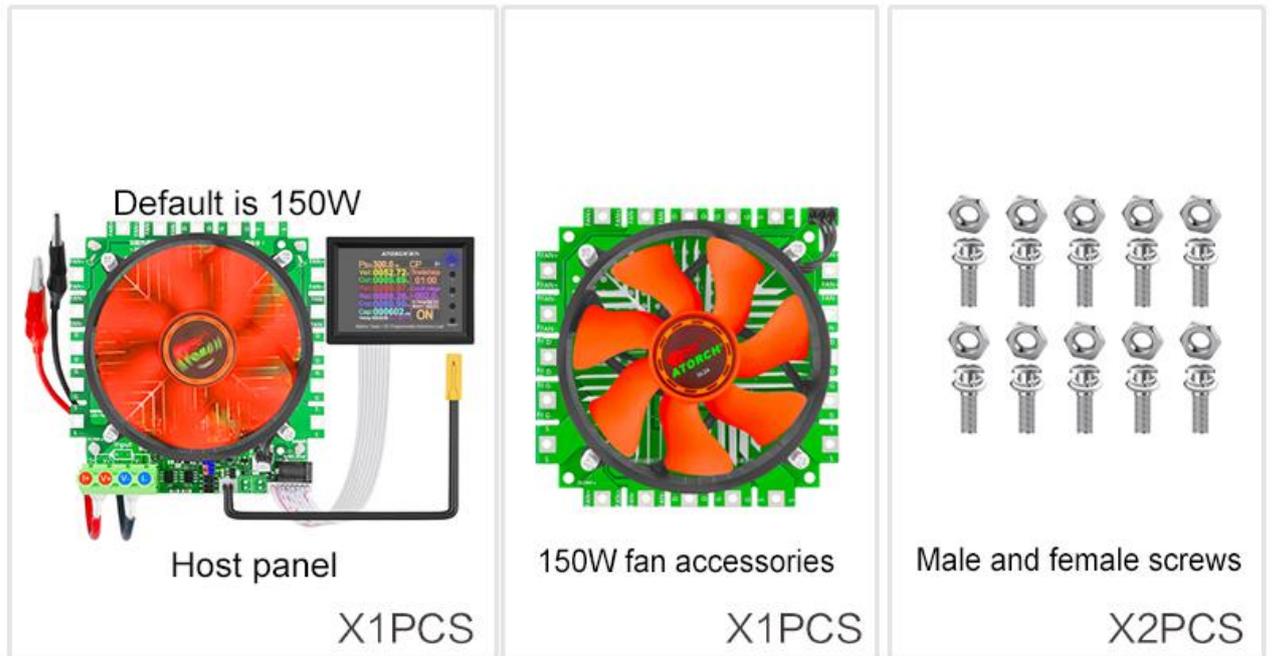
450W product list

1.DL24M-150W Host Color Display Bluetooth Digital Control Curve Version Load Tesr x1
2.DC12V 1A power supply x1
3.Male and female screws X5 sets X3
4.Temperature probe x1
5.Red and black single line crocodile clip line x1
6.US to EU adapter x1
7.150W fan accessories X2

ATORCH
450W
DL24M

| DC Power | Alligator line 10A | Temperature probe | Panel connection line | Adapter board |
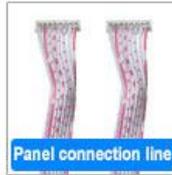
Ps=450.0 w   CP
Vol:0114.79 v   Timedischarge
Cur:0003.92 A   01:00
Pwr:0449.97 w   Cut off voltage
Res:0029.28 Ω   <002.0 v
Ene:0134.99 wh   In.Temp:032.3°C
Cap:001265 mAh   Board T :023.3°C
Timing:000:02:59 Ex.T :027.3°C   **ON**

Battery Tester / DC Programmable Electronic Load

+

Battery Box

32位 ARM® Cortex® CPU内核

Android APP / IOS APP / Windows APP

DL24M Voltage: 200V Current: 35A Power: 450W

450W product list

Default is 150W		
Host panel	150W fan accessories	Male and female screws
X1PCS	X2PCS	X3PCS

X1PCS	X1PCS	X1PCS	X1PCS	X1PCS
DC Power	Alligator line 10A	Temperature probe	Panel connection line	Adapter board
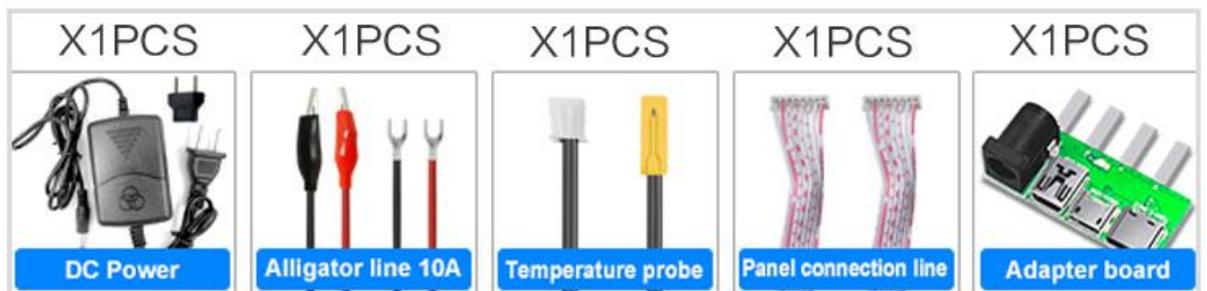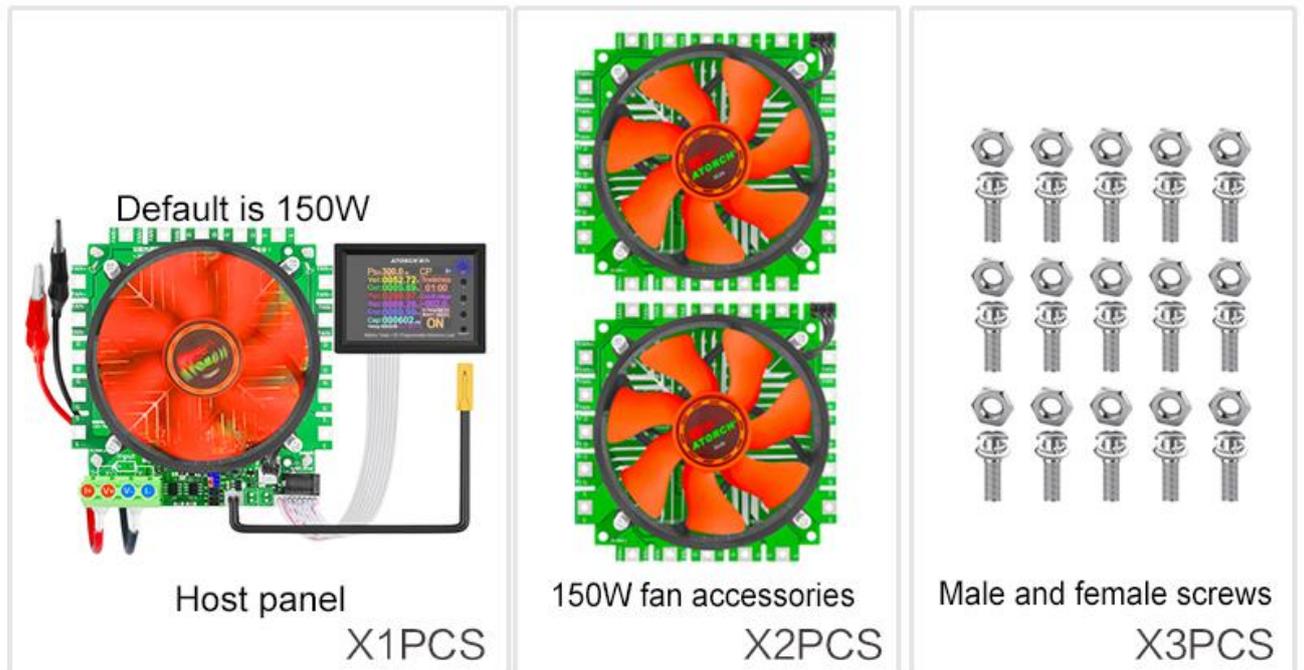
600W product list

1.DL24M-150W Host Color Display Bluetooth Digital Control Curve Version Load Tesr x1

2.DC12V 1A power supply x1

3.Male and female screws X5 sets X3

4.Temperature probe x1

5.Red and black single line crocodile clip line x1

6.US to EU adapter x1

7.150W fan accessories X3

ATORCH®
600W
DL24M

| DC Power | Alligator line 10A | Temperature probe | Panel connection line | Adapter board |
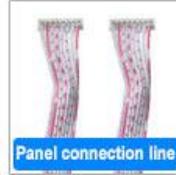
+ Battery Box

32位 ARM® Cortex® CPU内核
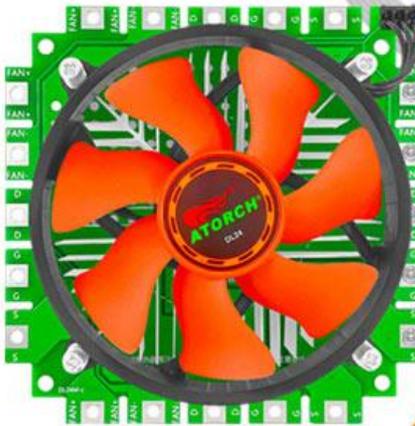
Android APP / IOS APP / Windows APP

DL24M Voltage: 200V Current: 40A Power: 600W

600W product list

Default is 150W Host panel X1PCS	150W fan accessories X3PCS	Male and female screws X4PCS

X1PCS	X1PCS	X1PCS	X1PCS	X1PCS
DC Power	**Alligator line 10A**	**Temperature probe**	**Panel connection line**	**Adapter board**
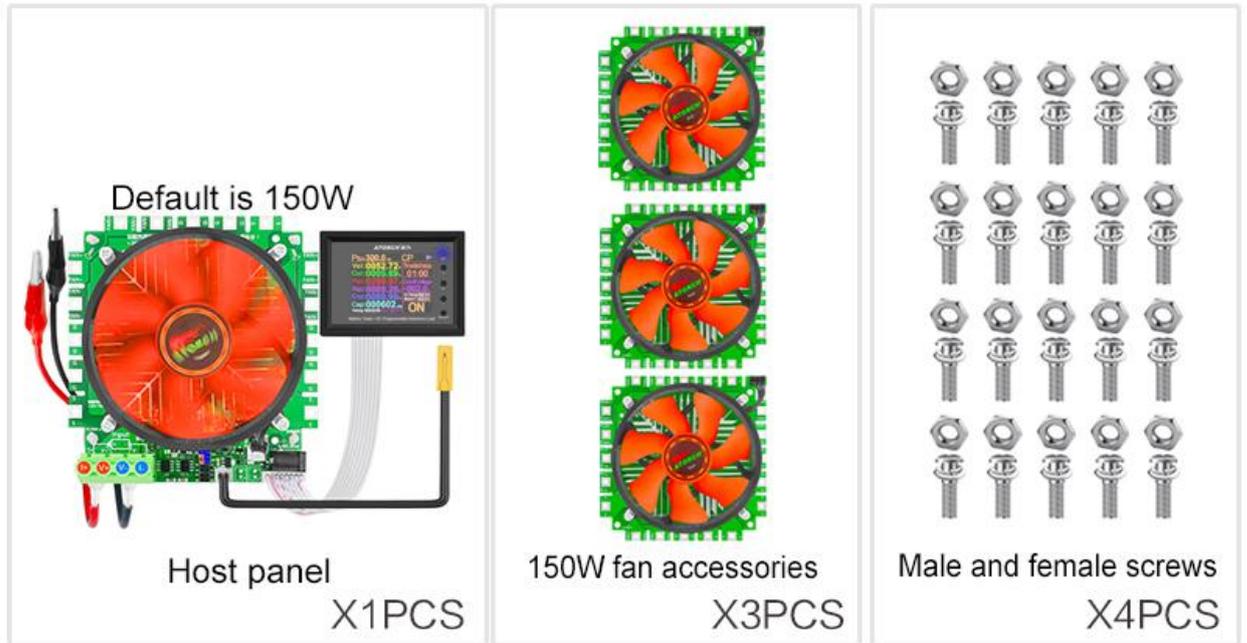
After the user use the sharing of information

Chinese users converted some of the cases

DL24分体式 用户改装品鉴赏

改装效果参考 1

改装效果参考 2

改装效果参考 3

改装效果参考 4

改装效果参考 5

改装效果参考 6

开关　　　　　　　　　　　　电流

多功能电池容量测试仪—W100

改装效果参考 8

改装效果参考 9　　　改装效果参考10

以上只是部分改装效果参考,更多创意改装期待您自觉挖掘