AiXun·艾讯

PM02
Power Supply Partner
User Manual
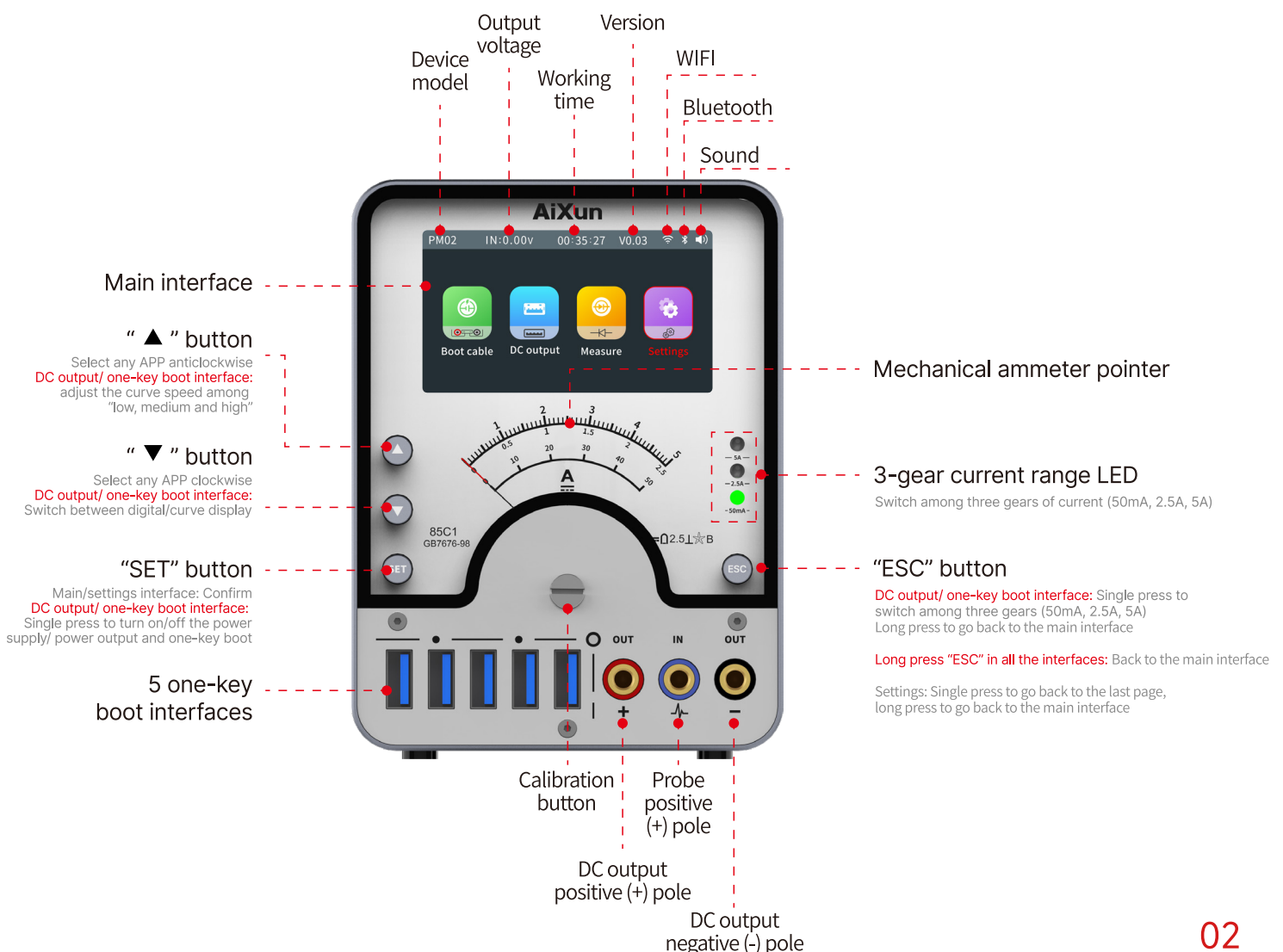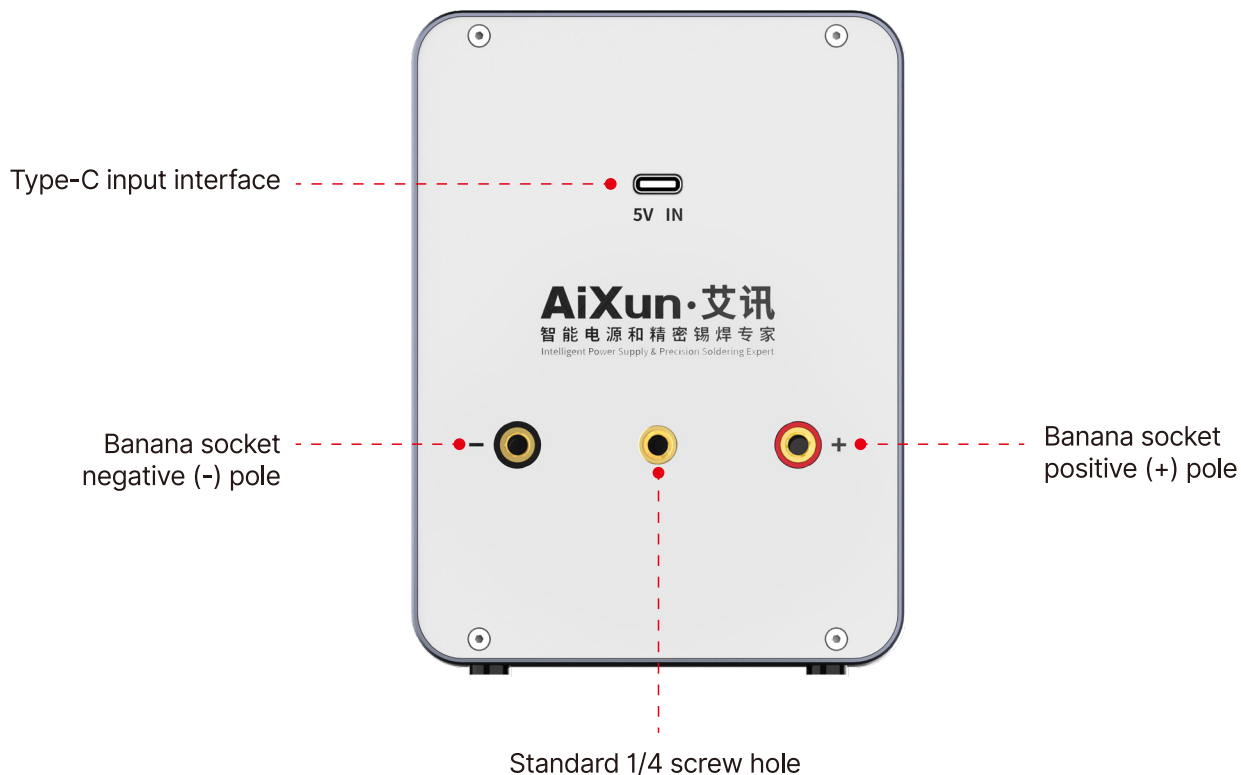
1 Product Features

● **PM02 power supply partner, a comprehensive assistant**

➤ **Support multi-speed curve measurement, more accurate**
Integrate low/medium/high speed curve measurement

➤ **Support voltage and diode measurement**
Enable both diode voltage and DC voltage measurement

➤ **Support digital, pointer and curve display**
Mechanical ammeter and display screen 2-in-1 design

➤ **Support OTA upgrade**
5G dual-mode Bluetooth WiFi module,
support OTA online upgrade

➤ Standard 1/4 screw hole design at the bottom, easy to fit and be fasten with various brackets,
it can appear in any position convenient for you.

➤ Integrated low, medium and high speed curve measurement,
real-time current value capture with millisecond precision

➤ Automatic switching of mechanical current range, no manual adjustment is needed, avoid mechanical pointer damage

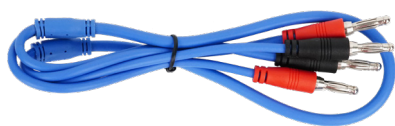➤ Both diode and DC voltage measurements make testing and maintenance more convenient

2 Structures Instruction

Device model
Output voltage
Version
Working time
WIFI
Bluetooth
Sound

Main interface

"▲" button
Select any APP anticlockwise
DC output/ one-key boot interface:
adjust the curve speed among
"low, medium and high"

"▼" button
Select any APP clockwise
DC output/ one-key boot interface:
Switch between digital/curve display

"SET" button
Main/settings interface: Confirm
DC output/ one-key boot interface:
Single press to turn on/off the power
supply/ power output and one-key boot

5 one-key
boot interfaces

Mechanical ammeter pointer

3-gear current range LED
Switch among three gears of current (50mA, 2.5A, 5A)

"ESC" button
DC output/ one-key boot interface: Single press to
switch among three gears (50mA, 2.5A, 5A)
Long press to go back to the main interface

Long press "ESC" in all the interfaces: Back to the main interface

Settings: Single press to go back to the last page,
long press to go back to the main interface

Calibration button
Probe positive (+) pole
DC output positive (+) pole
DC output negative (-) pole

Back side

Type-C input interface

5V IN

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智能电源和精密锡焊专家
Intelligent Power Supply & Precision Soldering Expert

Banana socket
negative (-) pole

– +

Banana socket
positive (+) pole

Standard 1/4 screw hole

Accessories

Double-end SR
banana plug cable

DC banana plug alligator
clip cable (red+black)

Probe extension cable

5-core double-C port cable

User manual card

Certificate

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3 Product Parameters

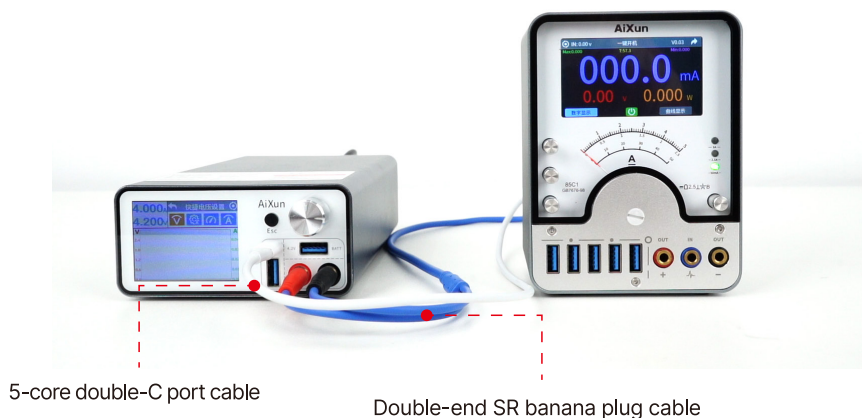| Name: Power Supply Partner	Model: PM02
DC input range : 0~32V	Pointer range: 50mA, 2.5A, 5A
DC output range: Keep pace with input voltage	Host Type-C input: 5V 0.5A(Max)
Diode measure range: <2V	Voltage measure range: 0.1-32V
Display screen: 3.0inch IPS	Net weight: 0.8 kg
Host dimensions: 97x67x130mm	

* Data provided by AiXun lab, please refer to the actual data!

4 Product Operation

|I Power supply

Need to match with a power supply for use. Any power supply with a DC output interface can be connected to the PM02 power supply partner

➤ Connect the double-end SR banana plug cable to the banana socket of the smart power supply and the power supply partner

➤ Connect the 5-core double C plug cable to the power supply partner for power-up, turn on the smart power supply, and the PM02 booted up after getting power
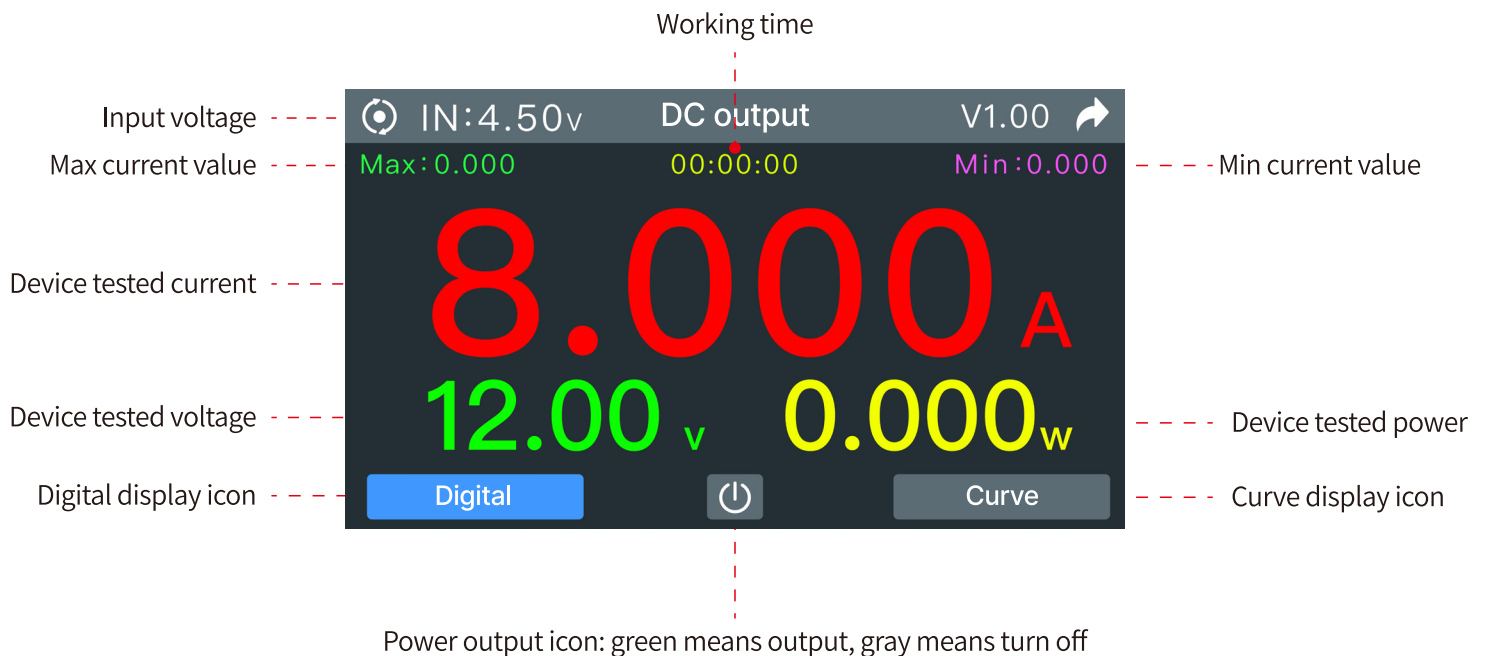
5-core double-C port cable   Double-end SR banana plug cable

▮▮ DC output

➤ Supply power to the PM02 power supply partner (refer to the power supply operation)

➤ Connect the alligator clip wire to the corresponding DC output socket on the front of the device, then clamp the alligator clip on the positive and negative poles of the object to be tested

➤ Single press the " ▲ " or " ▼ " button on the main interface, select the "DC Output" App, and press the "SET" button to enter the DC output interface

➤ After entering the DC output interface, press the " ▼ " button to switch between <Digital Display> and <Curve Display>

Voltage security automatic protection: A pop-up window will appear when it exceeds the normal range, avoiding the components damage due to high voltage
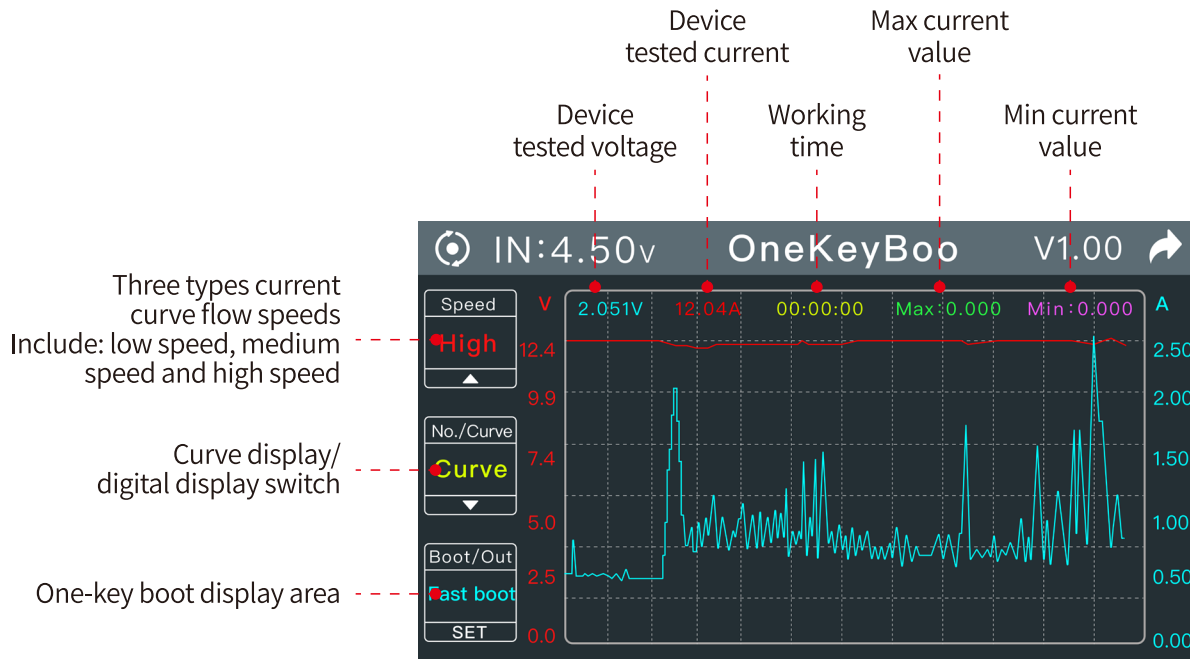
❶ Digital display interface

Working time

Input voltage ---- ☉ IN:4.50v   DC output   V1.00

Max current value ---- Max:0.000   00:00:00   Min:0.000 ---- Min current value

Device tested current ----

8.000A

Device tested voltage ---- **12.00**v   **0.000**w ---- Device tested power

Digital display icon ---- Digital   ⏻   Curve ---- Curve display icon

Power output icon: green means output, gray means turn off

➤ **Press "ESC" button** to switch among three gears of current (50mA, 2.5A, 5A)

➤ **Press "SET"** to turn on or off the DC output function

➤ **Long press "ESC" button t**o exit and go back to the main interface

Single press " ▼ " button in the one-key boot and DC output interface to switch between Digital and Curve modes

❷ Curve display interface

➤ **Press the " ▼ " button to switch to the curve interface, press the "ESC" button** to switch among three current ranges (50mA, 2.5A and 5A)

➤ Press the "▲" **button** to switch among three current curve flow speeds (low speed, medium speed and high speed)

➤ **Press the "SET" button** to turn on or off the DC output function

➤ **Long press "ESC" button** to exit and go back to the main interface

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Device
tested current

Max current
value

Device
tested voltage

Working
time

Min current
value

Three types current
curve flow speeds
Include: low speed, medium
speed and high speed

IN:4.50v   OneKeyBoo   V1.00

Speed
High

No./Curve
Curve

Boot/Out
Fast boot
SET

Curve display/
digital display switch

One-key boot display area

| One-key boot

Prepare an USB 4-in-1 boot cable and a motherboard

➤ Supply power to the PM02 power supply partner
(refer to the power supply operation)
Need to match with a power supply for use. Any power supply with a
DC output interface can be connected to the PM02 power supply partner

➤ Connect the USB 4-in-1 boot cable to the device, **press the**
"▲" **or** "▼" **button** to select the "Boot cable" APP,
then p**ress the "SET" button** to enter the one-key boot interface

➤ Press "SET" to turn on the power output, **then press "SET" again**
to start the one-key boot, and press "SET" again to turn off the output

➤ Press the "▼" button to switch between <Digital display>
and <Curve display>

➤ Long press the "ESC" button to exit the boot cable interface

❶ Digital display interface

➤ **Press the "ESC" button** to switch among three current
ranges (50mA, 2.5A, 5A)

➤ Press the "▼" button to switch to the curve display interface

❷ Curve display interface

➤ **Press the "ESC" button** to switch among three current ranges (50mA, 2.5A, 5A)

➤ **Press the "▲" button** to switch among three current curve flow speeds
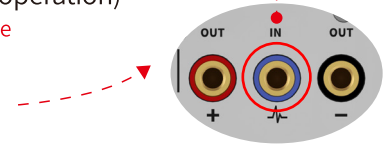(low speed, medium speed and high speed)

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▐▌ Measurement function

"IN" socket (connect to the positive (+) pole of the probe)

The measurement accuracy is close to that of a multimeter

➤ Supply power to the PM02 power supply partner (refer to the power supply operation)
   Need to match with a power supply for use. Any power supply with a DC output interface can be connected to the PM02 power supply partner

➤ Prepare a multimeter probe and insert the "extension wire", connect the probe to the "IN" socket in the middle of PM02

➤ **Press the " ▲ " or " ▼ " button** to select the "Measure" APP, **press the "SET" button** to enter the measurement interface (It can measure DC voltage and diodes)

➤ **Press the " ▼ " button** to switch between DC voltage and diode measurement, long press "ESC" to exit the measurement interface
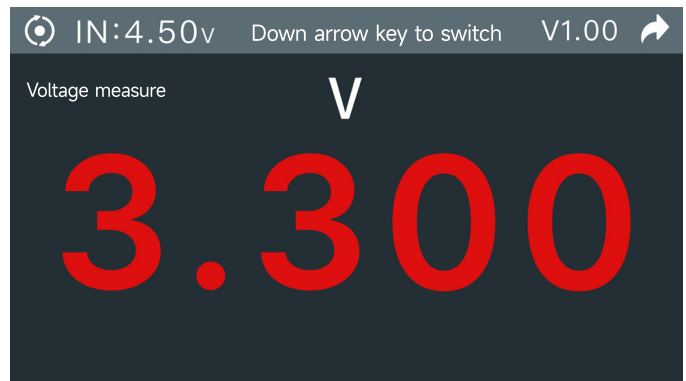
OUT   IN   OUT
+   —

❶ DC voltage measurement

Connect two positive and negative probes to measure the device voltage (measurement range: 0-32V)
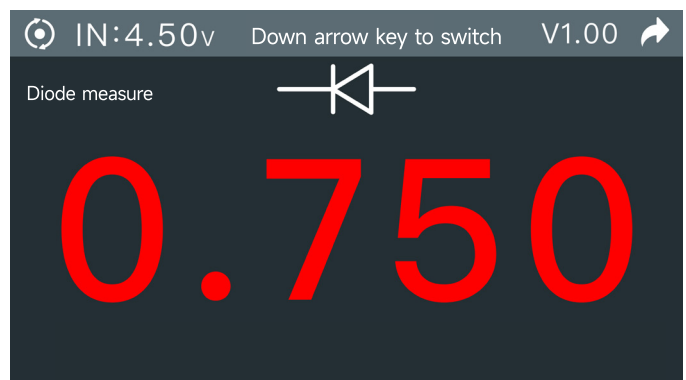
➤ **Press the "SET" button** to switch to the voltage measurement interface

➤ You can start to quickly measure the DC voltage of the motherboard

➤ Long press "ESC" to exit the measurement interface

IN:4.50ᵥ   Down arrow key to switch   V1.00
Voltage measure

V
3.300

❷ Diode measurement

Connect two positive and negative probes to measure the diode resistance value (measurement range: 0-2V)

➤ **Press the "SET" button** to switch to the diode measurement interface

➤ You can start to quickly measure the diode resistance value of the motherboard

➤ Long press "ESC" to exit the measurement interface

IN:4.50ᵥ   Down arrow key to switch   V1.00
Diode measure

0.750

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5 WIFI Setting

● Connect the device with WiFi through mobile phone (Support 5G module WIFI network configuration)

Method 1: Configure network through AiXun official account

➤ Follow [AiXun] official account on WeChat or scan the QR code, find [AiXun Assistant] in "Product Information" or scan the QR code on the "WIFI Setting" interface

➤ Save mobile phone WiFi as connected state and Bluetooth as ON

➤ Find your device code, click Connect, enter the password > Confirm to send, and wait for the connection to complete
Check device code: Check the device name and other information in "Device Info" in Settings

Method 2: Configure network through WeChat mini program

● When the device is connected to WIFI for the first time, please use the "AiXun Assistant" on WeChat mini program

➤ **Enter the "AiXun Assistant" mini program**

Option 1: Scan the QR code below to enter the AiXun Assistant mini program

Option 2: Search the "AiXun Assistant" mini program on WeChat

Option 3: Connect through "AiXun Platform". Click the "WIFI" icon on the upgrade interface of PM02, then a "WeChat mini program QR code" will appear

➤ **Find the corresponding device**

Enter the "AiXun Assistant" mini program, you will see the device list, find the corresponding product model, and click "Connect"
(Allow to use when the Bluetooth is turned on or when the Bluetooth requests to use mini program. When there are several PM02 at the same time, check the machine code in device information and then connect accordingly)

Check device code: Check the device name and other information in "Device Info" in Settings

➤ **Connect successfully**

Wait for connection. After the first successful connection, there is no need to connect again for the second time. The device will connect with WIFI automatically next time
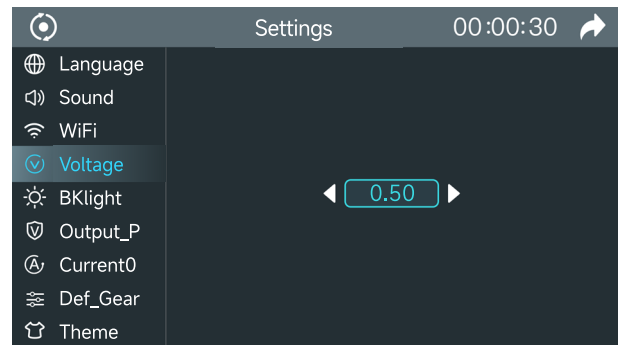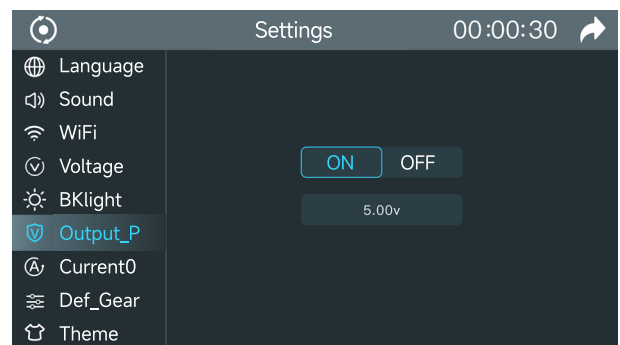
Scan the QR code on WeChat

Search "AiXun Assistant" mini program on WeChat

6 Settings

➤ **Press the "▲" or "▼" button** to select the "Settings" APP, press the "SET" button to enter the settings interface, and short press "ESC" to exit the settings interface

➤ After entering the settings interface, **press the "▲" or "▼" button** to switch among [language settings, sounds, WiFi setting, voltage adjustment, backlight adjustment, output protection, current reset, default gear, theme, device information, check for update, factory reset and function test]

➤ Select the corresponding function to be adjusted and **press the "SET" button** to enter the corresponding interface

➤ **Press "ESC"** to go back to the last page, **long press "ESC"** to exit the settings interface

1 Voltage adjustment & output protection

➤ **After entering the settings interface, press the "▲" or "▼" button** to select [Voltage Adjustment], and press the "SET" button to enter the voltage adjustment interface (you can set the voltage adjustment value)

➤ **Press the "▲" button** to increase the voltage value, increase by 0.01V each time, and the maximum value is 1V

Press the "▼" button to decrease the voltage value, decrease by 0.01V each time, and the minimum value is 0.01V

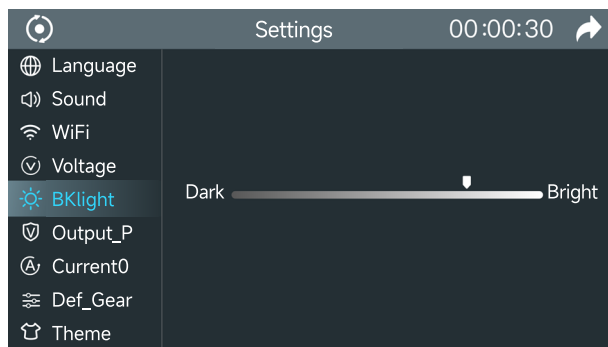➤ **Press "ESC"** to go back to the settings list

Settings	00:00:30
⊕ Language	
◁ᵈ Sound	
⌂ WiFi	
⊻ Voltage	
☼ BKlight	◀ 0.50 ▶
Ⅴ Output_P	
Ⓐ Current0	
⚙ Def_Gear	
♡ Theme	

➤ **After entering the settings interface, press the "▲" or "▼" button** to select [Output Protection], and **press the "SET" button** to enter the output protection
It will show whether the output protection function is turned on or off, and the adjustment of the protection voltage parameters after turning it on

➤ **Press the "▲" or "▼" button** to select Turn On or Off the output protection function

➤ **Press the "SET" button** to switch the protection voltage parameters and turn on or off the output protection function

The increased or decreased parameters of voltage protection are set according to the "voltage adjustment value"
For example: the set value of voltage adjustment is 0.5V, when setting the output protection voltage, it is adjusted in units of 0.5V each time
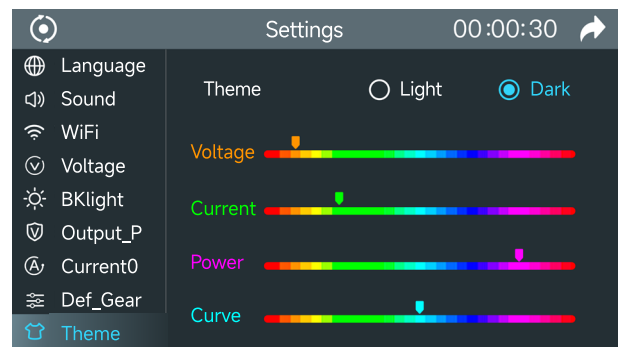
Settings	00:00:30
⊕ Language	
◁ᵈ Sound	
⌂ WiFi	
⊻ Voltage	ON OFF
☼ BKlight	
Ⅴ Output_P	5.00v
Ⓐ Current0	
⚙ Def_Gear	
♡ Theme	

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❷ Backlight adjustment

➤ **After entering the settings interface, press the "▲" or "▼" button** to select [Backlight], and **press the "SET" button** to enter the backlight adjustment interface

➤ **Press the "▲" button** to increase the screen backlight brightness

Press the "▼" button to decrease the screen backlight brightness

➤ **Press the "ESC" button** to go back to the settings list

Settings   00:00:30

Language
Sound
WiFi
Voltage
BKlight
Output_P
Current0
Def_Gear
Theme

Dark ———————————— Bright

❸ Theme setting

➤ **After entering the settings interface, press the "▲" or "▼" button** to select [Theme]**, and press the "SET" button** to enter the theme setting interface
The theme display interface includes the light and dark modes switch as well as the color customization of the fonts of voltage, current, power and curve

➤ **Press "SET" button** to select the fonts color adjustment of 4 functions and light & dark modes switch in turn. After selecting the function

➤ **Press the "▲" or "▼" button** to switch between light & dark modes and fonts color adjustment of 4 functions

➤ **Press the "ESC" button** to go back to the settings list

Settings   00:00:30

Language
Sound
WiFi
Voltage
BKlight
Output_P
Current0
Def_Gear
Theme

Theme   ○ Light   ◉ Dark

Voltage
Current
Power
Curve

7   Precautions

● To avoid power supply damage and keep safe working environment, the following items should be observed:

● Power supply: Need to match with a power supply for use. Any power supply with a DC output interface can be connected to the PM02 power supply partner

● Built-in precision electronics, non-professionals do not disassemble without authorization.

● Please adjust strictly according to the official parameters. Do not exceed the value range to prevent product damage and malfunction.

● Banana plug DC output regulated power supply, please connect strictly according to the (+) (-) marked on the device. Do not reverse the connection, otherwise it will cause a short circuit.

● Do not mix metal flakes and wire debris into this product, otherwise it may cause electric shock, fire or failure.

● Replace fittings with original accessories.

● If it is in idle for a long time, please place it in a dry environment.

8 After Sale Service

● Warranty regulations:

● The product is guaranteed for one year from the date of purchase
(subject to the purchase certificate).

● The warranty service is only valid under normal use. All man-made damage, such as improper use of
accessories, failure to use according to instructions, damage not caused by our company's repair,
wrong use or negligence, the warranty service will immediately invalid.

● The company has the final right to interpret the above regulations for users who do not comply with the
above regulations.

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ISO
ISO9001

C E
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