

USB 3.0 V/A tester (PA-010)

Does your USB cable or USB adapter work properly? Do you know how much power your USB charging sticks actually hold? USB 3.0 V/A OLED tester can help you easily identify the best cables for USB charging. It shows the voltage, watts, amperage, and the mAh being delivered to your devices. Bright clear display is easy to read and rotation screen for best review.

This USB 3.0 V/A tester, adopts the OLED screen, it can measure voltage, current, power and capacity. It's a very handy tool for testing USB devices, checking load levels and debugging battery chargers and boost converters.

Features:

- Automatic calibration current zero function
- Overvoltage, under voltage alerts
- Automatic storage capacity
- Capacity / energy switching function
- Flip screen function
- Screen off function
- 9 group capacity storage accumulated
- Support USB3.0 data transfer
- Support pass-through mode, fast charge mode, disconnected mode

Technical Parameter:

- Voltage measuring range: DC 3.700-7.000V
- Current measuring range: DC 0.000-3.000A
- Power measurement range: 0-21.000W
- Capacity measuring range: 0-99999mAh
- Display color: white
- Energy Measurement Range: 0-99999mAh-700Wh
- Size: 64mm x 21.6mm x 11.2mm
- Display Screen: 0.91-inch 128 x 32 dot matrix OLED display
- Voltage measurement accuracy: $\pm(0.3\% + 2\text{words})$
- Current measurement accuracy: $\pm(0.8\% + 3\text{words})$
- Refresh rate: 2 times / sec
- Static power consumption: 10mA

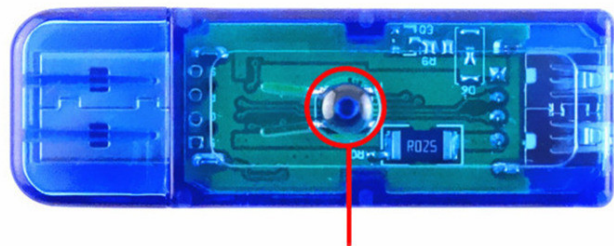
Technical Parameters:

- **Weight:** 14g+ (package 27g)
- **Font color:** white/blue
- **Display mode:** 0.91" OLED Scree
- **Physical size:** 64 x 22 x 11mm (L*W* H)
- **Voltage measurement range:** DC 3.70 -13.0V
- **Voltage accuracy:** ± (0.3% + 1words)
- **Current measurement range:** DC 0.00-3.00A
- **Current measurement range:** 0.000-3.000A(4 Bit display)
- **Current accuracy:** ± (0.5% + 2words)
- **Power measurement range:** 0-30.00W
- **Capacity measurement range:** 0-99999mAh

Function description:

Screen rotation function:

Press the button on the back, the display interface can rotate 180 degree for being observed easily when you insert it into different side usb of the computer, and automatic memory for the next boot mode.



The button on the back

Power-down storage function:

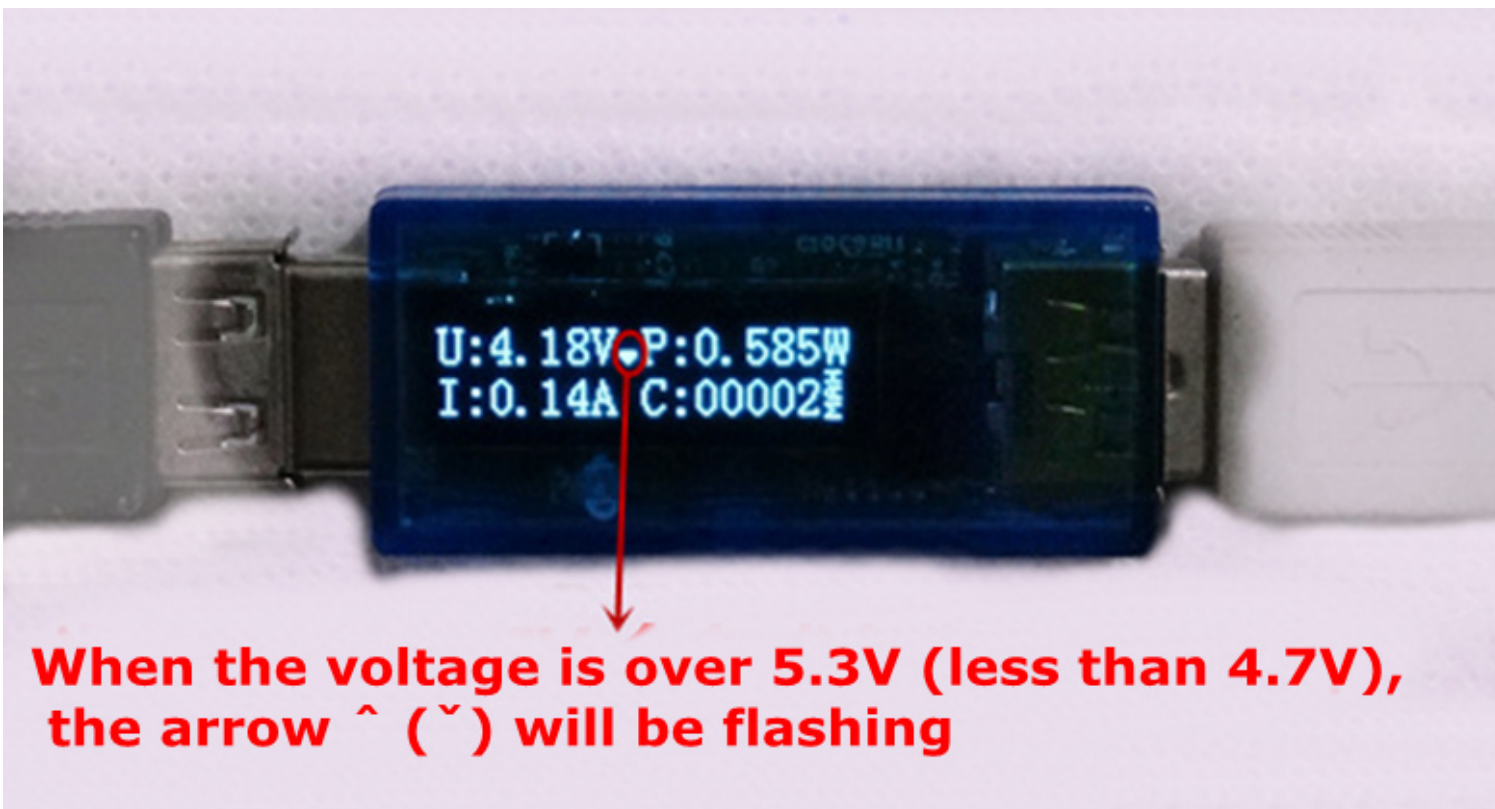
When power off, the accumulated MAH will be automatically stored. The stored MAH is blinking displayed after the boot. When the new MAH is up to 1 MAH, the stored MAH will be covered, and the values will start over.

Counting the capacity and efficiency of the mobile power supply battery:

$$\text{Ah data} \times \text{output voltage} \div \text{battery voltage} \div \text{efficiency} = \text{mobile power supply battery Ah}$$
 (output voltage is typically 5V, the battery voltage is generally based on 3.7V, typically by 85-90% efficiency)

Over-voltage and Under-voltage reminding:

When the voltage is over 5.3V (less than 4.7V), the arrow () will be flashing.

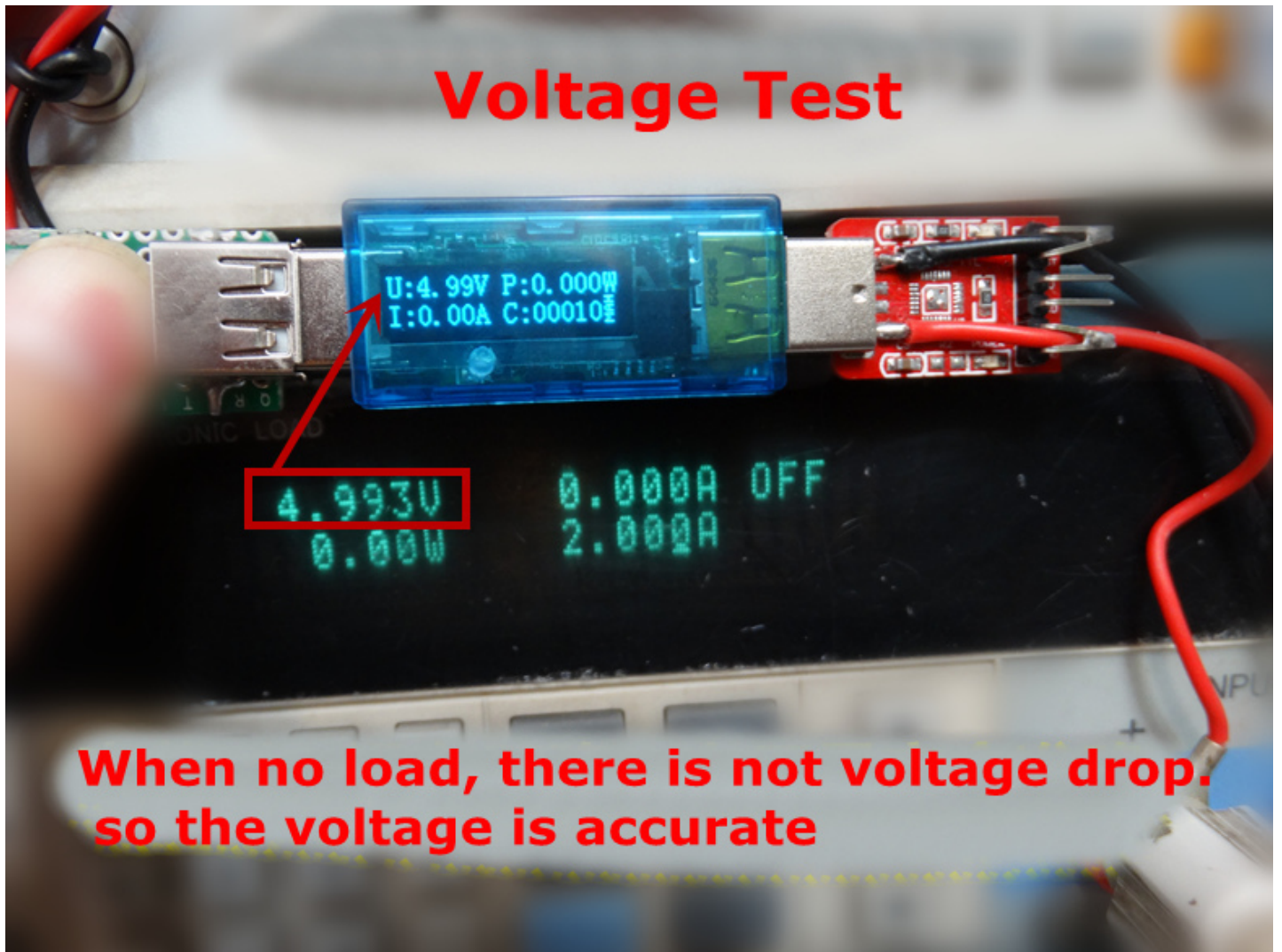


U:4.18V P:0.585W
I:0.14A C:00002

**When the voltage is over 5.3V (less than 4.7V),
the arrow ^ (~) will be flashing**

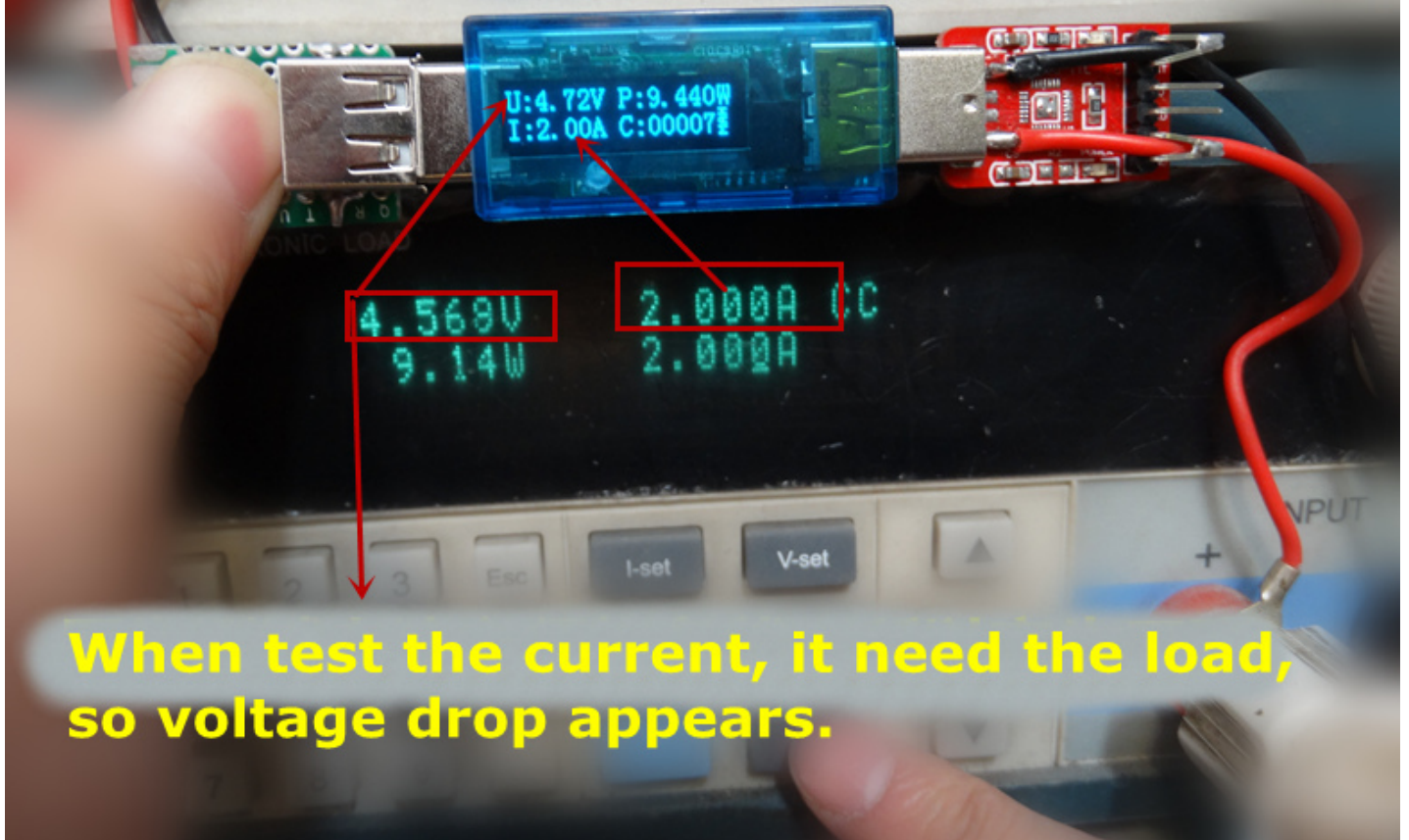
Tested picture

Voltage Test



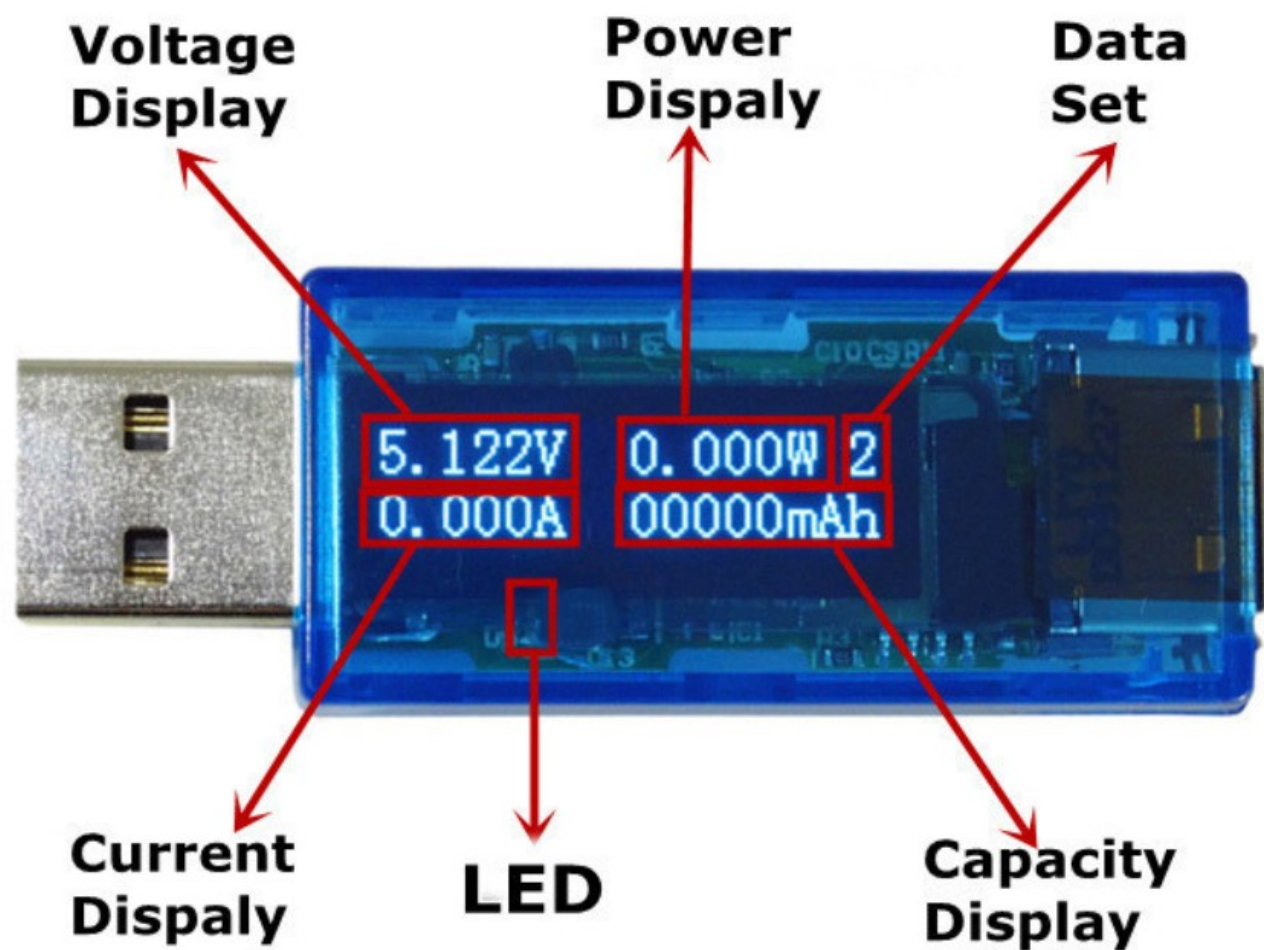
**When no load, there is not voltage drop.
so the voltage is accurate**

Current Test



When test the current, it need the load, so voltage drop appears.

Operating instructions:



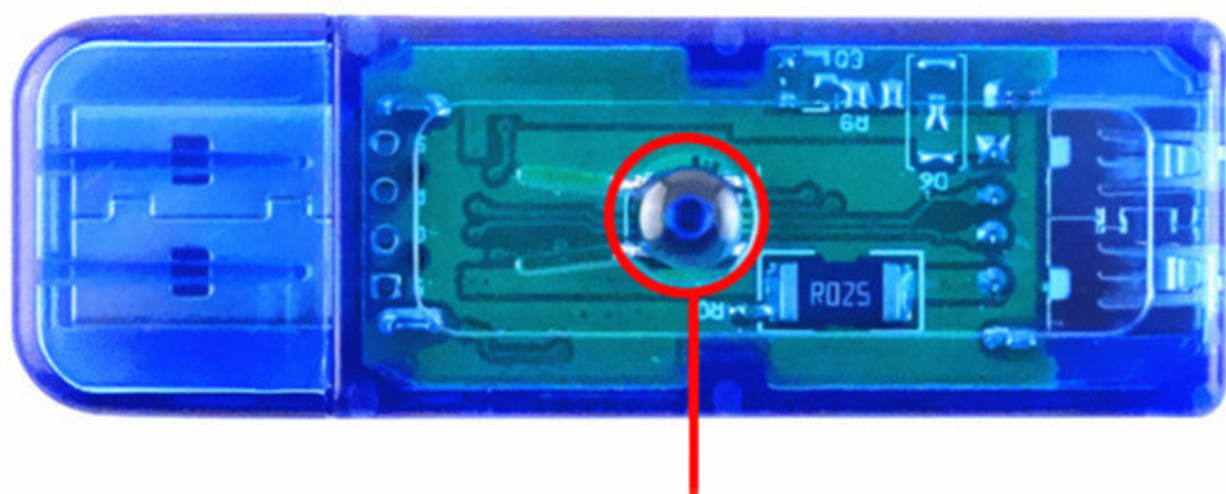
Product picture

USB 3.0



Button





The button on the back

