YEREADW 066C-CX01

YEREADW USB C Meter Voltage Tester

Model: 066C-CX01

Introduction

The YEREADW USB C Meter Voltage Tester is a versatile digital multimeter designed for precise measurement of electrical parameters in USB-C devices. It accurately detects voltage, current, power, capacity, energy, time, current direction, CPU temperature, and D+/D- voltage. This device supports various fast charging protocols, making it an essential tool for optimizing the charging performance of your electronic devices.

Figure 1: YEREADW USB C Meter Voltage Tester. This image shows the compact black device with a short USB-C cable and a color LED display showing various electrical readings.

Setup

To begin using your YEREADW USB C Meter Voltage Tester, follow these simple steps:

1. **Connect the Input:** Plug the USB-C male connector of the tester into the power source (e.g., wall charger, power bank, computer USB-C port).
2. **Connect the Output:** Plug your device (e.g., smartphone, tablet, laptop) into the USB-C female port on the tester.
3. **Ensure Both Connections:** For the tester's screen to illuminate and display readings, both the input (power source) and output (device to be charged/tested) ports must be connected. This is due to PD protocol limitations.

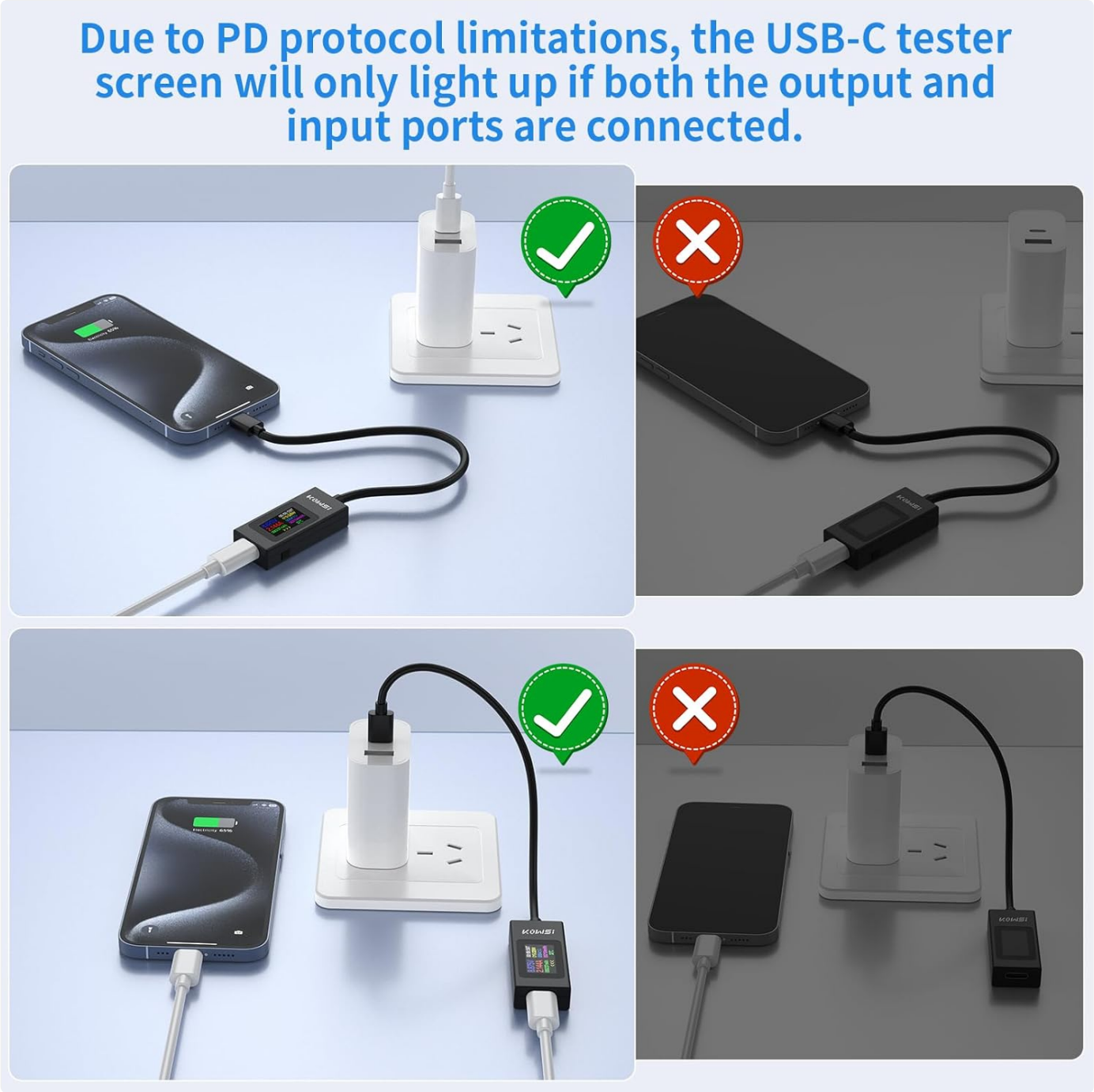

Figure 2: Proper connection methods for the USB-C tester. The image illustrates correct connections with both input and output devices plugged in (indicated by green checkmarks) and incorrect connections where only one side is plugged in (indicated by red crosses), showing that the screen will not light up without both connections.

Operating Instructions

The YEREADW USB C Meter features a single button for navigation and control. The color LED display provides clear, high-resolution data.

Display Interfaces

The tester can display various parameters across multiple screens. These include:

- Voltage (V)
- Current (A)
- Power (W)

- Capacity (mAh)
- Energy (mWh)
- Time (HH:MM:SS)
- Current Direction
- CPU Temperature (°C)
- D+/D- Voltage

Figure 3: Examples of the three main display interfaces. The image shows the tester connected to a smartphone, with the screen cycling through different data views, including voltage, current, power, capacity, energy, time, and temperature.

Button Functions

- **Single Press:** Cycles through the different display screens.
- **Double-Click:** Rotates the displayed content for better viewing angle.
- **Press and Hold (3 seconds):** Resets all accumulated capacity, energy, and time data. This is useful before starting a new measurement or testing a new device.

Bidirectional Current Test

The tester supports bidirectional current testing, indicated by arrows on the screen, showing the direction of current flow. This feature is particularly useful for understanding power delivery in complex charging setups.

Figure 4: The tester performing a bidirectional current test. The image shows the tester connected between a charger and two smartphones, illustrating how it can measure current flow in both directions and support various fast charging protocols like PD 2.0/3.0 and QC 2.0/3.0.

Fast Charging Protocol Detection

The device automatically detects and supports a wide range of fast charging protocols, including PD2.0/3.0, QC2.0/3.0, FCP, SCP, AFC, PE, DASH VOOC, and Super VOOC. This ensures accurate measurement across various charging standards.

Testing External Battery Capacity

To accurately test the capacity of an external battery (power bank) using the tester, follow these steps:

1. Ensure the external battery is completely discharged before starting the test.
2. Connect the USB tester to the external battery.
3. Press and hold the button for 3 seconds to reset all capacity and energy data on the tester.
4. Connect the external battery to a charger through the tester.
5. Keep the external battery charging until it reaches 100%.
6. Read the accumulated energy data (Wh) from the tester after the charge is complete.

Formula for Battery Capacity (mAh):

Capacity (mAh) = (Wh / 3.75V) x 1000 x 90%

Note: 3.75V is the default voltage of the battery. The 90% factor accounts for conversion efficiency.

Figure 5: Setup for testing external battery capacity. The image shows the USB-C tester connected between a wall charger and a power bank, demonstrating the process of measuring the power bank's charging capacity.

Maintenance

To ensure the longevity and accurate performance of your YEREADW USB C Meter Voltage Tester, please observe the following maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts. While designed to be durable, excessive force can damage internal components.
- **Moisture:** Keep the device away from water and high humidity. It is not waterproof.

Troubleshooting

If you encounter issues with your YEREADW USB C Meter Voltage Tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Screen does not light up.	Only one port (input or output) is connected.	Ensure both the power source and the device to be charged are connected to the tester.
Inaccurate readings.	Loose connection; faulty cable; device incompatibility.	Ensure all connections are secure. Try a different USB-C cable. Test with a different device or power source to isolate the issue.
Button unresponsive.	Temporary software glitch; physical damage.	Disconnect and reconnect the tester. If the issue persists, contact customer support.
No fast charging detection.	Device or charger does not support fast charging; incompatible protocol.	Verify that both your charger and device support the fast charging protocol you expect. The tester will only display what is being negotiated.

Specifications

Parameter	Value
Brand	YEREADW
Model Number	066C-CX01
Measured Voltage Range	4V - 30V
Measured Current Range	0 - 6.5A
Measurement Accuracy	± (1% + 5)
Supported Fast Charge Protocols	PD2.0/3.0, QC2.0/3.0, FCP, SCP, AFC, PE, DASH VOOC, Super VOOC
Display Type	Color LED
Product Dimensions	10.01 x 8.99 x 2.21 cm (approx. 56.8mm x 25.8mm for main body, 143.5mm cable length)
Product Weight	59 grams
Color	Black

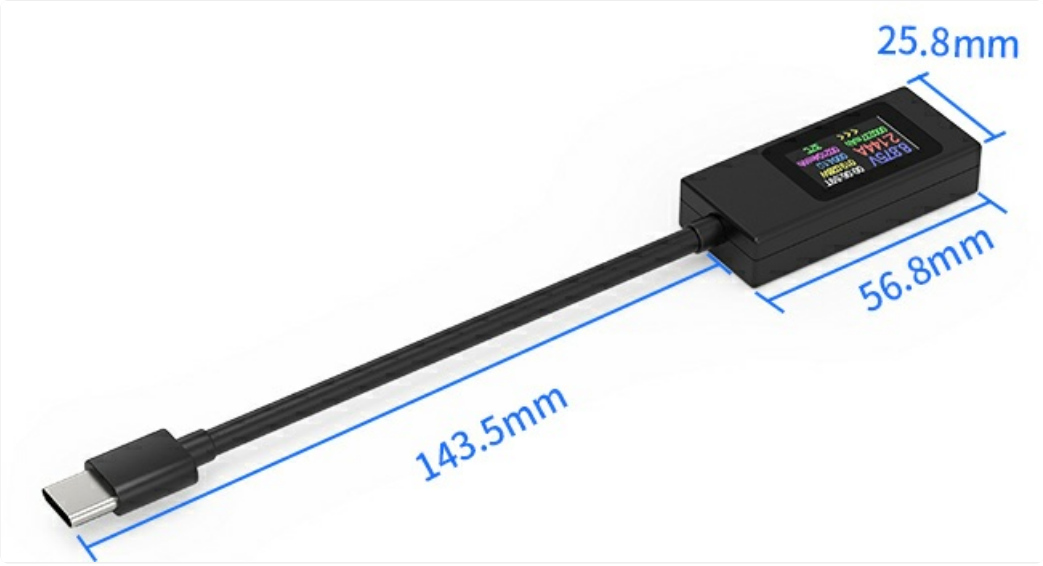

Figure 6: Detailed view of the USB-C tester's dimensions and key features. The image highlights the compact size, flexible cable, and robust anti-oxidant input port, emphasizing its portability and durability.

Warranty and Support

YEREADW is committed to providing high-quality products and excellent customer service. Your USB C Meter Voltage Tester comes with the following:

- **18-Month Warranty:** Enjoy peace of mind with an 18-month warranty covering manufacturing defects.
- **30-Day Return Policy:** If you are not satisfied with your purchase, you may return it within 30 days for a refund or replacement.
- **24-Hour Customer Support:** For any questions or assistance, our dedicated customer support team is available 24 hours a day.

For support, please visit the official YEREADW website or contact us through your purchase platform.

Figure 7: Visual representation of YEREADW's commitment to customer satisfaction, including warranty, return policy, and customer support availability.