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UMLIFE KWS-2303C

UMLIFE KWS-2303C USB C Tester Power Meter User Manual

Model: KWS-2303C

INTRODUCTION

Thank you for choosing the UMLIFE KWS-2303C USB C Tester Power Meter. This device is designed to accurately measure and display various electrical parameters of USB Type-C connections, including voltage, current, power, capacity, and energy. It supports multiple fast-charging protocols and features a clear color display for easy data monitoring. This manual provides detailed instructions for proper setup, operation, and maintenance of your device.

SAFETY INFORMATION

- Do not disassemble or modify the device.
- Avoid exposing the device to extreme temperatures, moisture, or direct sunlight.
- Keep out of reach of children.
- Use only with compatible USB Type-C devices within the specified voltage and current ranges.
- If the device appears damaged or malfunctions, discontinue use immediately.

PACKAGE CONTENTS

- UMLIFE KWS-2303C USB C Tester Power Meter (2 PCS)

PRODUCT OVERVIEW

The KWS-2303C is a compact and versatile USB C power meter designed for monitoring the performance of USB Type-C charging devices and cables. It features a 1.06-inch IPS color high-definition display that provides clear and detailed information.



Figure 1: Front view of the UMLIFE KWS-2303C USB C Tester Power Meter, displaying various measurement parameters on its color screen.

Key Features:

- **Wide Measurement Range:** Measures DC voltage from 4-30V and current from 0-12A, with power up to 360W.
- **Comprehensive Data Display:** Shows voltage, current, power, capacity (mAh), energy (Wh), timing, maximum voltage, maximum current, maximum power, current direction, and CPU temperature.
- **High-Definition Color Display:** 1.06-inch ISP screen with high resolution for clear data readability.
- **Fast Charging Protocol Support:** Compatible with PD2.0, PD3.0, PPS, QC2.0, QC3.0, FCP, SCP, AFC, PE, DASH VOOC, Super VOOC, and other protocols.
- **Power-off Storage:** Automatically saves capacity and energy data when power is disconnected.
- **Curve Function:** Monitors real-time voltage and current curves over selectable timeframes.
- **Multiple Display Modes:** Easily switch between three display interfaces.

SETUP

1. **Identify Ports:** The KWS-2303C has a male USB-C connector on one end and a female USB-C port on the other.

2. **Connect to Power Source:** Plug the male USB-C connector of the tester into your USB-C power adapter, power bank, or any USB-C output port you wish to test.
3. **Connect Device:** Plug your USB-C charging cable into the female USB-C port of the tester, and then connect the other end of the cable to the device you intend to charge or power.
4. **Power On:** The tester will automatically power on and display measurement data once connected to a live power source.

Compatible with 360W PD

Supports current up to 30V/12A



Figure 2: The USB C Tester connected in-line between a power source and a device, monitoring charging parameters.

OPERATING INSTRUCTIONS

The KWS-2303C features a single button for navigation and control.



Figure 3: Rear view of the KWS-2303C, highlighting the control button and product specifications.

- **Switching Display Interfaces:**

Press the button once to cycle through the available display interfaces. The tester offers three distinct display modes for data presentation.

- **Changing Display Direction:**

Double-click the button to rotate the display orientation by 180 degrees. This is useful for viewing the screen from different angles.

- **Resetting Data:**

To reset accumulated capacity (mAh) and energy (Wh) data, press and hold the button for approximately 3 seconds until the values clear. This action will not reset the timing data.

DISPLAY MODES

The KWS-2303C offers three distinct display interfaces to suit your monitoring needs. You can switch between these modes by pressing the control button.



Three Display Interfaces

Different Interface Modes For Easier Data Reading



Figure 4: Examples of the three available display interfaces, including a detailed data view and a curve graph.

- **Standard Data View:** Displays voltage, current, power, capacity, energy, time, D+/D- voltage, and CPU temperature.
- **Simplified Data View:** Focuses on larger display of voltage, current, and power.
- **Real-time Curve Graph:** Visualizes voltage and current changes over time, providing a dynamic view of charging performance.

DATA STORAGE

The KWS-2303C features a power-off storage function. This means that the accumulated capacity (mAh) and energy (Wh) data will be automatically saved even if the power supply is disconnected. This allows for convenient review of total charge delivered over time.

To clear the stored capacity and energy data, refer to the "Resetting Data" instruction in the Operating Instructions section.

CURVE FUNCTION

The upgraded curve function allows for better recording and visualization of real-time voltage and current fluctuations. To access and configure the curve display:

- Navigate to the curve graph display interface by pressing the control button.
- Long press the button to enter the curve settings. Here you can set the time interval for the curve page (e.g., 5 minutes, 15 minutes, 60 minutes, 2 hours) to monitor real-time voltage and current over your desired period.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.

Troubleshooting

Problem	Possible Cause	Solution
Display is blank or not turning on.	No power supply, faulty connection, or device malfunction.	Ensure the tester is properly connected to a working USB-C power source. Check the cable connections. Try a different power source or cable.
Inaccurate readings.	Poor cable quality, incompatible device, or environmental factors.	Use a high-quality USB-C cable. Ensure the connected device and power source are within the tester's specifications. Avoid extreme temperatures.
Button not responding.	Stuck button or temporary software glitch.	Gently press the button multiple times. Disconnect and reconnect the tester to reset it.
Data not saving after power-off.	Specific data types (like timing) are not designed for power-off storage, or a malfunction.	Only capacity (mAh) and energy (Wh) are stored. If these are not saving, contact support.

Specifications

Model:	KWS-2303C
Voltage Measurement Range:	DC 4-30V
Current Measurement Range:	0-12A
Power Measurement Range:	0-360W
Capacity Measurement Range:	0-666666mAh
Energy Measurement Range:	0-999999Wh
Timing Range:	0-99 hours
Display:	1.06-inch IPS Color High-Definition Display
Product Size:	53 x 20 x 9mm (approx. 2.09 x 0.79 x 0.35 inches)
Supported Protocols:	PD2.0, PD3.0, PPS, QC2.0, QC3.0, FCP, SCP, AFC, PE, DASH VOOC, Super VOOC, etc.

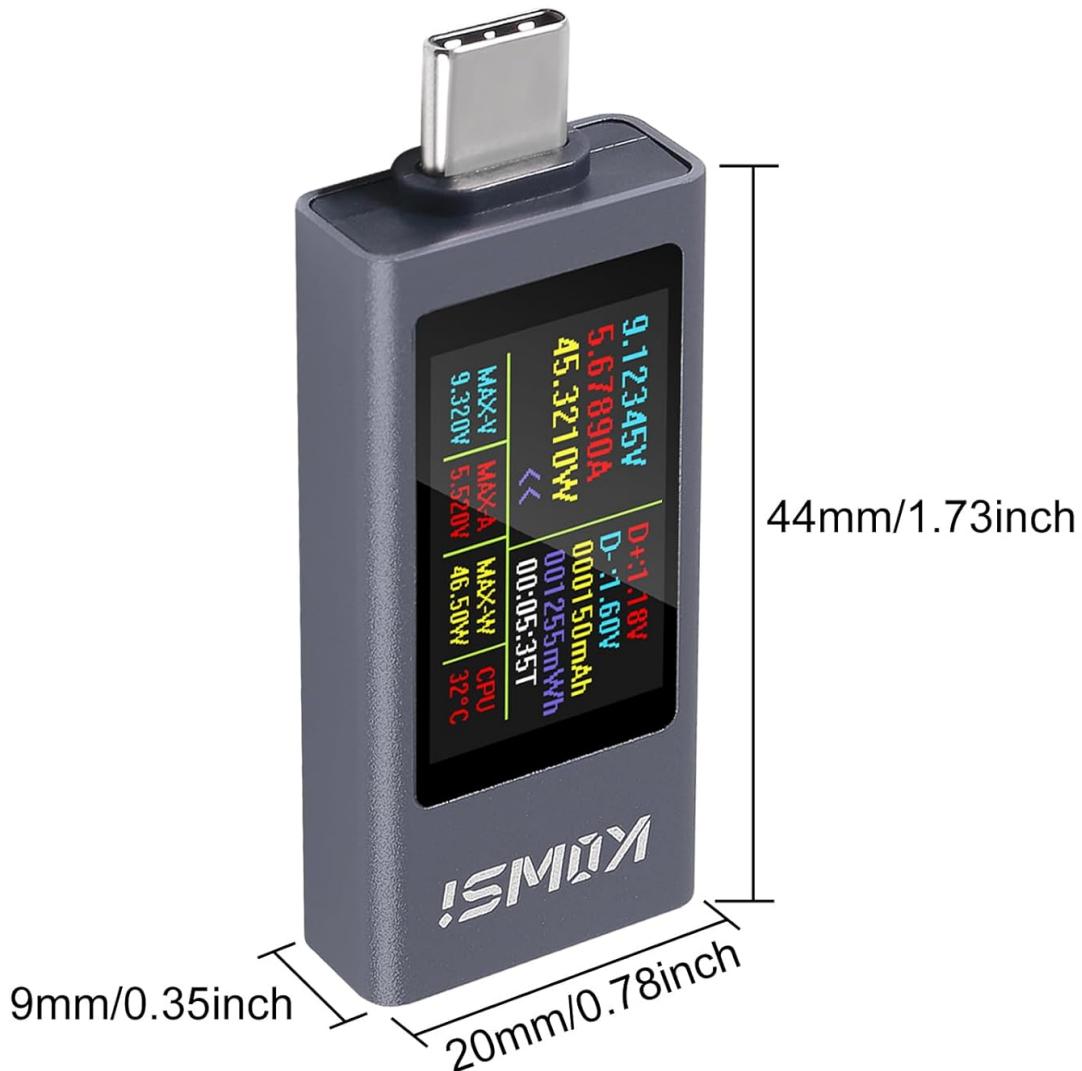


Figure 5: Dimensional drawing of the KWS-2303C USB C Tester.

WARRANTY AND SUPPORT

UMLIFE products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official UMLIFE website. Please have your model number (KWS-2303C) and purchase date ready when contacting support. For further assistance, you may also refer to the [UMLIFE Store on Amazon](#).