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› IXITAB /

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Model: KWS-2301C

1. INTRODUCTION

This manual provides instructions for the safe and effective operation of the IXITAB KWS-2301C Multi-Function Digital Display DC Voltage Ammeter Power Meter. This device is designed to measure and display various electrical parameters for Type-C cell phone charging and other DC applications.

2. SAFETY INFORMATION

- Ensure the input voltage and current are within the specified operating range (DC 4-30V, 0-12A).
- Do not disassemble or modify the device.
- Avoid exposure to extreme temperatures, moisture, or corrosive environments.
- Keep out of reach of children.
- Use only with compatible Type-C devices and power sources.

3. PRODUCT OVERVIEW

The KWS-2301C is a compact, multi-functional tester featuring a 0.77-inch OLED HD display and a 12A high-current terminal. It is designed for real-time monitoring of charging voltage, current, power, energy, capacity, and timing.



Figure 3.1: Front view of the IXITAB KWS-2301C tester, showing its compact design and OLED display.

3.1 Key Features

- 0.77-inch OLED HD Display for clear visibility.
- 12A High Current Terminal for stable performance.
- Metal shell for dustproof and drop-proof durability.
- Full interface compatibility (Type-C).
- Two-way current test function.
- Real-time charging power detection and fast charging test support.

Fully Interface Compatible

Adopts 0.77" OLED HD display With 12A high current terminal



Figure 3.2: The KWS-2301C highlighting its 0.77-inch OLED HD display and 12A high current terminal, ensuring full interface compatibility.

4. SETUP

1. **Connect to Power Source:** Insert the male Type-C connector of the KWS-2301C into a compatible DC power source (e.g., a wall charger, power bank, or computer USB-C port).
2. **Connect Device:** Insert the Type-C charging cable of the device you wish to test (e.g., cell phone, tablet) into the female Type-C port on the KWS-2301C.
3. **Power On:** The device will automatically power on and display readings once connected.

5. OPERATING INSTRUCTIONS

5.1 Display Modes

The KWS-2301C features two display orientations for convenient viewing.

2 display orientations

Convenient viewing

Double-click button to change direction



Figure 5.1: The KWS-2301C demonstrating its ability to switch between two display orientations for optimal viewing.

5.2 Changing Display Orientation

To change the display orientation, **double-click the button** located on the side of the device. This will rotate the display content by 180 degrees.

5.3 Interpreting Readings

The OLED display shows multiple parameters simultaneously:

- **Voltage (V):** Displays the current DC voltage.
- **Current (A):** Displays the current DC amperage.
- **Power (W):** Displays the real-time power consumption (Voltage x Current).
- **Timing (H):** Records the elapsed time of the measurement.
- **Capacity (mAh):** Accumulates the total charge transferred.
- **Electrical Energy (Wh):** Accumulates the total energy consumed.

6. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

- **Handling:** The metal shell provides durability, but avoid dropping or subjecting the device to severe impacts.

7. TROUBLESHOOTING

7.1 No Display/No Readings

- Ensure the device is properly connected to both the power source and the load.
- Verify that the power source is active and providing voltage within the specified range (DC 4-30V).
- Check for any damage to the Type-C connectors or cables.

7.2 Inaccurate Readings

- Ensure all connections are secure and free from debris.
- Test with a different power source or load to isolate the issue.
- Readings may vary slightly depending on cable quality and device being charged.

8. SPECIFICATIONS



Figure 8.1: Dimensional drawing of the KWS-2301C, showing its compact size.

Parameter	Value
Voltage Range	DC 4-30V
Current Range	0-12A
Timing Range	0-99 hours
Power Range	0-360W
Capacity Range	0-99999mAh
Electrical Energy Range	0-99999Wh
Ambient Temperature	Up to 50°C
Dimensions (L x W x H)	Approximately 46.4 x 16.5 x 9 mm (1.83 x 0.65 x 0.35 inches)
Item Weight	Approximately 1.76 ounces

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact IXITAB customer service through their official channels. Specific warranty terms may vary by region and retailer.