

LSLSL BW-600W-DK

LSLSL BW-600W-DK WiFi DC Electronic Load Tester User Manual

Model: BW-600W-DK

1. INTRODUCTION

The LSLSL BW-600W-DK is a versatile WiFi-enabled DC electronic load tester designed for precise battery capacity monitoring and charging applications. This device supports Bluetooth and WiFi connectivity, allowing for integration with PC software and the Tuya APP for enhanced control and data analysis. It features a built-in charging control module, enabling both charging and testing of various battery products.

2. PRODUCT FEATURES

- **Battery Capacity Testing:** Designed for discharging and capacity testing of various battery types, including NiMH, NiCd, LiPo, LiFe, Pb, 18650, and automotive batteries.
- **Electronic Power Test:** Supports discharging of electronic power supplies and capacity testing.
- **Power Performance Test:** Facilitates performance and aging tests for various DC power supplies.
- **Connectivity:** Features WiFi, Bluetooth, and PC connection capabilities for advanced functions like graphics, calibration, firmware upgrades, and test cycles.
- **Built-in Charging Control:** Allows for charging and testing of battery products (charger not included, requires external DC 12V/3A power supply).
- **High Accuracy:** Utilizes a four-wire testing method with separate voltage and current channels for precise measurements.
- **IPS Display:** Provides clear display of voltage, current, time, capacity, power, and electric energy.

3. PACKAGE CONTENTS

Please verify that all items are present in the package:

- BW-600W-DK Battery Tester (1 pc)

- DC 12V 3A Power Supply (1 pc)
- 10A Red and Black Clip Cable (1 set)
- Temperature Probe (1 pc)
- Adapter Board (1 pc)

4. SAFETY INFORMATION

To ensure safe operation and prevent damage to the device or injury, please observe the following safety guidelines:

- Always use the specified DC 12V/3A power supply.
- Ensure adequate ventilation around the device during operation to prevent overheating.
- Do not exceed the maximum voltage (200V) or current (50A) limits.
- Avoid short-circuiting the input or output terminals.
- Keep the device away from water, moisture, and extreme temperatures.
- Do not attempt to disassemble or modify the device. Refer servicing to qualified personnel.

5. SETUP

Follow these steps to set up your BW-600W-DK tester:

1. **Connect Power Supply:** Connect the provided DC 12V/3A power supply to the designated power input port on the tester.
2. **Connect Load/Battery:** Connect the battery or power supply you wish to test to the input terminals of the tester using the 10A red and black clip cables. The tester supports both 2-wire and 4-wire testing methods for improved accuracy.
3. **Connect Temperature Probe (Optional):** If temperature monitoring is required, connect the temperature probe to its dedicated port.

Rear Panel Overview:



Image: Rear panel of the BW-600W-DK tester. This view shows the two integrated cooling fans for thermal management and the 'System power (DC12V)' input port.

6. OPERATING INSTRUCTIONS

Once the device is powered on, the IPS display will show real-time data. Navigate through the menus using the device's controls (specific button functions may vary, refer to on-screen prompts).

6.1. Discharge Methods

The BW-600W-DK supports two primary discharge methods:

- **Constant Current (CC) Discharge:** This mode maintains a constant discharge current from the battery or power supply. It is ideal for testing battery capacity or verifying the current output of a power source.
- **Constant Power (CP) Discharge:** In this mode, the tester discharges the battery or power supply at a constant power level. This is useful for simulating loads of constant power equipment.

6.2. PC and App Connection

The tester offers advanced connectivity options:

- **Bluetooth Connection:** Connect the tester to a PC via Bluetooth to access additional functions such as graphical data representation, calibration, firmware updates, and complex test cycles.
- **WiFi Connection (Tuya APP):** Utilize the WiFi feature to connect the device to the Tuya APP for remote monitoring and control.

7. SPECIFICATIONS

| Parameter | Value |
|--------------------------|--|
| Model | BW-600W-DK |
| Power Supply | DC 12V/3A |
| Voltage Range | 0-200.00V (0.01V step) |
| Current Range | 0.010-50.00A (0.01A step, automatically adjusted by power limit) |
| Discharge Power | 600W |
| Discharge Current Limits | <3A above 200V, <50A at 12V |
| Display Type | IPS |
| Connectivity | WiFi, Bluetooth, PC |
| Manufacturer | LSLSL |
| Item Model Number | 12254769678 |
| Country of Origin | China |

8. TROUBLESHOOTING

If you encounter issues with your BW-600W-DK tester, consider the following common solutions:

- **Device Not Powering On:** Ensure the DC 12V/3A power supply is correctly connected and functioning. Check the power cable for damage.
- **Incorrect Readings:** Verify that all connections to the battery or power supply are secure. Ensure the correct testing mode (CC/CP) is selected. For 4-wire testing, confirm all four wires are properly connected.
- **Connectivity Issues (WiFi/Bluetooth):** Ensure the device is within range of your WiFi router or Bluetooth host. Check network settings and ensure the Tuya APP or PC software is correctly configured.
- **Overheating:** Ensure the cooling fans on the rear panel are not obstructed and the device has adequate ventilation. Reduce the load if continuous high-power operation causes excessive heat.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the terms provided by your retailer or the point of purchase. For technical support or further assistance, please contact the manufacturer, LSLSL, or your authorized distributor.

