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#### KWS-DC26

# KWS-DC26 DC Power Meter Battery Load Tester User Manual

Model: KWS-DC26

#### INTRODUCTION

The KWS-DC26 DC Power Meter Battery Load Tester is a high-precision instrument designed for comprehensive measurement of electrical parameters in DC circuits. It accurately measures voltage, current, power, and energy consumption. This device is ideal for various applications, including battery performance testing, solar system monitoring, and electric vehicle charging station analysis. Featuring a high-precision color LCD display, multiple alarm indicators, bidirectional measurement capabilities, and data logging, it offers ease of operation and high reliability.

# SAFETY INFORMATION

- Always ensure proper polarity when connecting the device to avoid damage to the meter or the circuit under test.
- Do not exceed the maximum voltage (DC80V) or current (50A) ratings specified for the device.
- Handle with care to prevent physical damage. Avoid exposure to extreme temperatures or moisture.
- Disconnect power before making or changing any connections.
- Refer to your specific application requirements and local electrical codes before utilizing the load tester.

## PRODUCT OVERVIEW

The KWS-DC26 features a compact design with a clear color LCD display. It is equipped with various connectors to suit different applications. The device provides real-time data and historical records for comprehensive analysis.

# **Key Features:**

- Multifunctional Testing: Measures voltage (DC8V-DC80V), current (up to 50A), power, and energy consumption.
- High Visibility Display: 51\*30mm color LCD screen for easy reading in various conditions.
- Bidirectional Measurement: Capable of measuring both charge and discharge.
- Data Logging: Features power failure memory to retain recorded data.
- Safety Alarms: Includes multiple alarm indicators for overvoltage, overcurrent, and overtemperature conditions.

• **Temperature Monitoring:** Real-time temperature monitoring with an external thermostat to prevent overheating.



Figure 1: KWS-DC26 DC Power Meter with XT90 connectors, displaying various electrical parameters.

# **SETUP INSTRUCTIONS**

- 1. **Identify Connectors:** The KWS-DC26 is available with different connector types (e.g., XT-90, XT-60, Anderson, 3-pin). Ensure you have the correct variant for your application. The current model features XT-90 connectors.
- 2. **Connect to Source:** Connect the "SOURCE" side of the power meter to your DC power source (e.g., battery, solar panel output, wind turbine controller output). Ensure the positive (+) and negative (-) terminals are correctly aligned.



Figure 2: Connecting the KWS-DC26 to a power source and load.

- 3. **Connect to Load:** Connect the "LOAD" side of the power meter to your DC load (e.g., electric vehicle, outdoor power source, battery charger). Again, verify correct polarity.
- 4. **External Thermostat (Optional):** If your model includes an external thermostat, connect it to the designated port on the meter. This allows for real-time temperature monitoring of the charging product.

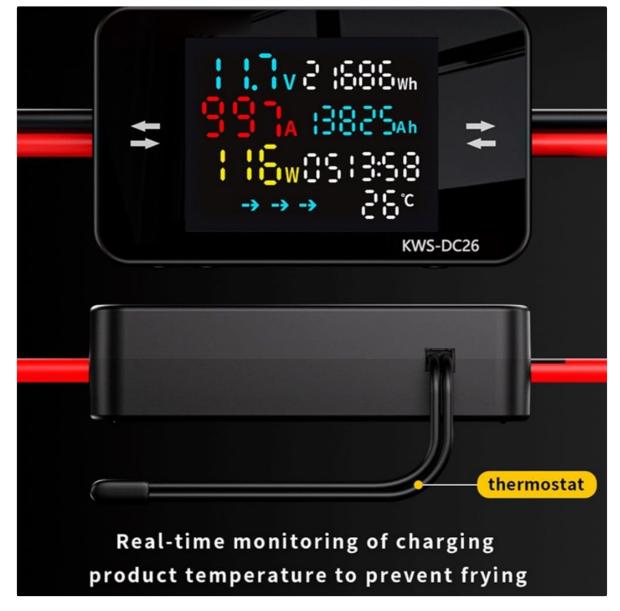


Figure 3: External thermostat connection for temperature monitoring.

5. **Power On:** Once all connections are secure, apply power to the circuit. The LCD display should illuminate and begin showing readings.

# **Visual Setup Guide:**

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Video 1: Demonstrates the connection and basic operation of the KWS-DC26 power analyzer, showing how to connect it to a power source and load, and how to read the display.

## **OPERATING INSTRUCTIONS**

The KWS-DC26 provides real-time measurements and historical data. The color LCD displays multiple parameters simultaneously for easy monitoring.

# **Display Readings:**

- Voltage (V): Displays the current voltage of the circuit.
- Current (A): Shows the current flowing through the circuit.
- Power (W): Indicates the instantaneous power consumption or generation.

- Energy (Wh): Accumulates the total energy consumed or generated over time.
- Amp-Hour (Ah): Accumulates the total charge transferred over time.
- Timer: Tracks the duration of the measurement.
- **Temperature** (°C): Displays the temperature from the external thermostat.

# **Navigating Historical Data:**

The device stores historical data such as peak watts (Wp), peak amps (Ap), and minimum voltage (Vm). Use the buttons on the device to cycle through these historical readings. The video in the setup section also demonstrates this functionality.



Figure 4: Close-up of the KWS-DC26 display and control buttons.

# **M**AINTENANCE

- 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.
- **Data Reset:** The device features power failure memory. Consult the device's physical buttons or specific instructions for resetting accumulated data (Wh, Ah, Timer) if needed.
- Protection Features: The KWS-DC26 includes built-in overvoltage, overcurrent, and overtemperature

protection. If an alarm triggers, identify and resolve the underlying issue in your circuit before continuing operation.

# **TROUBLESHOOTING**

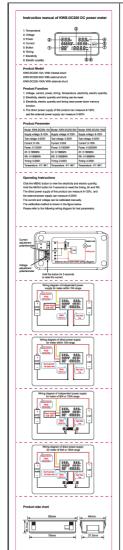
- **No Display:** Check all power connections to ensure they are secure and correctly polarized. Verify that the input voltage is within the specified range (DC8-80V).
- Incorrect Readings: Ensure all connections are tight and that the device is correctly wired in series with the circuit you intend to measure. Check for any loose wires or damaged connectors.
- Alarms Triggering: If overvoltage, overcurrent, or overtemperature alarms activate, immediately
  disconnect the power source and inspect your circuit for faults. Address the cause of the alarm before
  reconnecting.
- **Data Not Resetting:** Refer to the device's physical buttons for specific reset procedures. Typically, a long press on a designated button might reset accumulated values.

## **SPECIFICATIONS**

Parameter	Value
Part Name	Battery Load Tester
Material	ABS
Color	Black
Model	KWS-DC26
Voltage Measurement Range	DC8-80V ±1% + 0.5V
Current Measurement Range	0-20A/50A ±1% + 0.2A (depending on connector type)
Power Measurement Range	0-4000W ±1% + 2W
Energy Range	0-99999Wh
Amp-Hour Range	0-99999Ah
Timer Range	99 days 59 hours
Temperature	-20°C to 99°C ±2%
Display	51*30mm color LCD
Power Failure Memory	Yes
Overvoltage Protection	Yes
Overcurrent Protection	Yes
Overtemperature Protection	Yes
Product Dimensions	3.94 x 3.15 x 1.57 inches
Item Weight	3.53 ounces

This product comes with a standard manufacturer's warranty. For specific warranty details, technical support, or service inquiries, please refer to the contact information provided by your retailer or the manufacturer's official website. Keep your purchase receipt as proof of purchase.

#### Related Documents - KWS-DC26



# KWS-DC200 DC Power Meter: Voltage, Current, and Power Measurement Manual

Comprehensive instruction manual for the KWS-DC200 series DC power meter. Learn how to measure voltage, current, power, energy, and time. Includes wiring diagrams and specifications for 10A, 50A, and 100A models.



## KWS-X1 USB Power Meter Operating Instructions and Technical Specifications

Comprehensive operating instructions and technical specifications for the KWS-X1 USB Power Meter, detailing its features, menu navigation, protocol testing capabilities (PD, QC), and measurement parameters.



#### KWS Series Energy Meters: User Manual and Specifications

Comprehensive guide to KWS-306 series energy meters, detailing specifications, features, and operational settings for models KWS-306WF, KWS-306L, and KWS-306. Includes over-voltage, over-current, and other protection configurations.



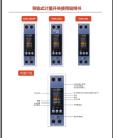
## KWS-306 Series Smart Energy Meter User Manual and Specifications

Comprehensive user manual and technical specifications for the KWS-306 series smart energy meters, including models KWS-306WF, KWS-306L, and KWS-306. This guide details device features, protection settings, operational procedures, and technical data for accurate installation and use.



#### Keweisi KWS-MX18 USB Tester User Manual and Instructions

Comprehensive user manual for the Keweisi KWS-MX18 USB Tester, providing detailed product specifications, functional instructions, and calibration guidance for accurate electrical measurements.



Guide Rail Type Metering Switch Instruction Manual - KWS-303WF, KWS-303L, KWS-303

Instruction manual for JUANJUAN Guide Rail Type Metering Switches (KWS-303WF, KWS-303L, KWS-303). Features include energy monitoring, WiFi connectivity, app control, and various protection functions.