

## KONNWEI KW600

# KONNWEI KW600 12V Automotive Battery Tester and Alternator Analyzer User Manual

Model: KW600 | Brand: KONNWEI

## 1. INTRODUCTION

The KONNWEI KW600 is a professional 12V automotive battery tester designed for analyzing a wide range of batteries, including regular flooded, AGM flat plate, AGM spiral, and GEL batteries. It accurately measures cold-cranking amps (CCA) from 100-2000, and is compatible with major battery standards such as JIS, SAE, EN, DIN, and IEC. This device provides quick and precise assessment of battery status, vehicle starting, and charging systems, making it an essential tool for vehicle owners and technicians.



Figure 1: KONNWEI KW600 Main Unit. This image displays the primary device with its screen and control buttons, connected to red and black battery clamps.

## 2. PRODUCT FEATURES

- All-in-one battery tester: Performs battery charging system tests, cranking system tests, load tests, and alternator checks.
- Color LCD Screen: Features an intelligent 2.4-inch color LCD screen for clear display of test results and voltage waveforms.

- Wide Testing Range: Supports 100-2000 CCA and 30-220 AH batteries.
- Battery Compatibility: Works with 12V regular flooded, AGM flat plate, AGM spiral, and GEL batteries.
- High Accuracy: Provides up to 99.5% accuracy for quick and reliable results.
- Test Modes: Supports both in-vehicle and out-of-vehicle testing.
- Data Management: Allows for software updates, data printing, and review of test results.
- Multi-language Support: Offers 10 language options for user convenience.



Figure 2: Enhanced Automotive Battery Load Tester. This image highlights the device's capabilities including voltage test, charging test, cranking test, resistance test, graphing voltage, load test, ripple analysis, update, and printing.

### 3. WHAT'S IN THE BOX

- 1 x KONNWEI KW600 Car Battery Tester
- 1 x User Manual
- 1 x Mini-USB Cable

## 4. SETUP AND INITIAL CONNECTION

To begin using your KW600 battery tester, ensure your vehicle's ignition is off and all accessories are turned off. Connect the red clamp to the positive (+) terminal of the 12V battery and the black clamp to the negative (-) terminal. The device will power on automatically using the battery's power. If the battery is completely dead, the device may not power on.



Figure 3: Connecting the KW600 to a car battery. This image shows a user connecting the red and black clamps of the KW600 to the respective terminals of a car battery under the hood.

## 5. OPERATING INSTRUCTIONS

### 5.1. Battery Test (In-Vehicle / Out-of-Vehicle)

1. Connect the KW600 to the 12V battery.
2. From the Main Menu, select 'Check' and then choose 'In-Vehicle' or 'Out-of-Vehicle' based on your testing scenario.
3. Select 'Battery Test'.
4. Follow the on-screen prompts to input battery type (e.g., Regular Flooded, AGM, GEL) and CCA rating.
5. The tester will perform the analysis and display results such as Voltage, Internal Resistance, Cold Cranking Amps (CCA), Battery Health (SOH), and Charge Status.

## **5.2. Cranking System Test**

1. Connect the KW600 to the 12V battery.
2. From the Main Menu, select 'Check' and then 'In-Vehicle'.
3. Select 'Cranking Test'.
4. Follow the on-screen instructions to start the vehicle. The tester will analyze the cranking voltage and time.

## **5.3. Charging System Test (Alternator Test)**

1. Connect the KW600 to the 12V battery.
2. From the Main Menu, select 'Check' and then 'In-Vehicle'.
3. Select 'Charging Test'.
4. Follow the on-screen instructions, which may include starting the engine and increasing RPMs to a specified level. The tester will evaluate the alternator's performance, including loaded/unloaded voltage and ripple.



# Charging System Test

Analyze battery charging system status, provide accurately testing result within seconds!



Figure 4: Charging System Test. The device displays loaded and unloaded voltage, along with ripple, indicating a normal charging status.

## 5.4. Waveform Voltage Analysis

The KW600 can display real-time battery voltage in a graphical waveform, allowing for visual analysis of voltage changes and identification of potential issues. From the Main Menu, select 'Waveform' to access this feature.

# KW600 supports voltage readings in graphing

Helps to compare the voltage change and figure out issues



Figure 5: Voltage Waveform Display. This image shows the KW600 screen presenting a real-time voltage waveform, useful for diagnosing battery and charging system stability.

## 5.5. Review Data and Print

Test results can be reviewed directly on the device by selecting 'Review' from the Main Menu. To print diagnostic reports via a PC, connect the KW600 using the provided Mini-USB cable and use the KONNWEI software. Select 'Print' from the Main Menu to initiate data transfer.

# Print & Update

One-click to Life Time Free Update Software; Supports Print Out Diagnostic Report Via PC.



Figure 6: Print & Update Functionality. The KW600 is shown connected to a computer via USB, with a printer nearby, illustrating its capability to print diagnostic reports.

## 6. MAINTENANCE AND SOFTWARE UPDATE

### 6.1. General Care

Keep the device clean and dry. Avoid exposure to extreme temperatures or direct sunlight. Store in a safe place when not in use.

### 6.2. Software Updates

The KW600 supports lifetime software updates. To update the software, connect the device to a Windows PC (Windows XP, Vista, 7, 8, or 10, 32/64 bit OS) using the Mini-USB cable. Follow the instructions provided with the KONNWEI update software. This ensures your device has the latest features and bug fixes.



## 7. TROUBLESHOOTING

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### 7.1. Device Not Powering On

Ensure the battery clamps are securely connected to the correct terminals (red to positive, black to negative). The device draws power directly from the battery; if the battery is completely discharged, the tester may not power on. Try charging the battery first or testing with a known good battery.

### 7.2. Inaccurate Readings

Verify that the correct battery type and CCA rating have been entered into the device. Ensure battery terminals are clean and free of corrosion for optimal contact. If testing in-vehicle, ensure all accessories are off before starting the test.

### 7.3. Software Update Issues

Software updates are only compatible with Windows operating systems (Windows XP, Vista, 7, 8, 10, 32/64 bit). Ensure you are using a compatible OS and the correct update software from KONNWEI.

## 8. SPECIFICATIONS

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- **Brand:** KONNWEI
- **Model:** KW600
- **Power Source:** Battery Powered
- **Voltage:** 12 Volts
- **Testing Range:** 100-2000 CCA, 30-220 AH
- **Battery Types:** Regular flooded, AGM flat plate, AGM spiral, GEL
- **Display:** 2.4-inch Color LCD Screen
- **Item Weight:** 13.4 ounces (381 Grams)
- **Product Dimensions:** 0.98 x 4.33 x 5.51 inches
- **Operating Voltage:** 8V-16V DC
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)
- **Storage Temperature:** -20°C to 70°C (-4°F to 158°F)
- **Special Features:** Voltage waveform analysis, software update, print/review data, multi-language support.

## 9. OFFICIAL PRODUCT VIDEO

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Your browser does not support the video tag.






Video 1: KW600 Accurate 12V Battery Tester. This official video from KONNWEI provides a detailed overview and demonstration of the KW600's features and testing capabilities.


## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided in the included User Manual or visit the official KONNWEI website. Ensure to register your product for any applicable warranty benefits.

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### Related Documents - KW600

	<p><a href="#">KONNWEI BK200 Bluetooth Battery Tester: Features, Specifications, and Applications</a></p> <p>Discover the KONNWEI BK200, a professional Bluetooth battery tester for cars, trucks, and motorcycles. Analyze 6V, 12V, and 24V batteries with advanced features like cranking and charging tests, internal resistance measurement, and waveform graphing via a mobile app.</p>
	<p><a href="#">KONNWEI KW218 Car Battery Tester User's Manual</a></p> <p>Comprehensive user's manual for the KONNWEI KW218 Car Battery Tester, detailing its features, functions, technical specifications, and operating procedures for battery, cranking, and charging system tests. Includes guidance on interpreting results and service information.</p>
	<p><a href="#">KONNWEI KW600 Car Battery Tester User Manual</a></p> <p>Detailed user manual for the KONNWEI KW600 Car Battery Tester. Learn how to test vehicle batteries, diagnose starting and charging systems, and understand battery health with this comprehensive guide.</p>
	<p><a href="#">Konnwei BK100 Bluetooth Battery Tester User Manual</a></p> <p>Comprehensive user manual for the Konnwei BK100 Bluetooth Battery Tester, covering product features, parameters, advantages, operation, and service procedures. Test battery health, CCA, internal resistance, and charging status.</p>
	<p><a href="#">KONNWEI KW710 Automotive Battery Tester User Manual</a></p> <p>This user manual provides detailed instructions for operating the KONNWEI KW710 6V, 12V, 24V automotive battery system tester. It covers battery testing, cranking system analysis, charging system diagnostics, and software updates for accurate vehicle maintenance.</p>

 <p>The image shows the cover of the user manual for the KONNWEI KW700 Professional Battery Tester. The cover is white with a black and red image of the device. The text on the cover includes 'KONNWEI', 'KW700', 'Užívateľský manuál', and 'KONNWEI KW700 Professional tester automobilní 12 a 24V s integrovanou tiskárnou'.</p>	<p><a href="#">KONNWEI KW700 Professional Battery Tester User Manual</a></p> <p>User manual for the KONNWEI KW700 Professional 12V/24V car battery tester with integrated printer. Learn about its features, functions, and how to perform battery, cranking, and charging system tests.</p>
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