

## KONNWEI KW208

# KONNWEI KW208 12V Car Battery Tester User Manual

Model: KW208

Your comprehensive guide to operating and maintaining your KONNWEI KW208 battery tester.

## 1. INTRODUCTION

The KONNWEI KW208 is a professional 12V car battery tester designed to accurately analyze the health and performance of various 12V batteries, including regular flooded, AGM flat plate, AGM spiral, and gel batteries. It provides comprehensive analysis of battery health, cranking performance, and charging system efficiency, making it an essential tool for automotive diagnostics.

This manual provides detailed instructions on how to set up, operate, and maintain your KW208 battery tester to ensure accurate and reliable results.

## 2. SAFETY INFORMATION

Please read and understand all safety warnings and precautions before using the KW208 battery tester. Failure to do so may result in electric shock, fire, or serious injury.

- Always wear eye protection and protective clothing when working with batteries.
- Ensure the vehicle is in a well-ventilated area.
- Avoid sparks and open flames near the battery.
- Keep the tester away from moisture and extreme temperatures.
- Do not attempt to disassemble or modify the tester.
- Ensure proper polarity when connecting the clamps to the battery terminals (red to positive, black to negative).

## 3. PRODUCT FEATURES

The KONNWEI KW208 offers a range of features for comprehensive battery and system testing:

- **Wide Battery Compatibility:** Tests all 12V 100-2000 CCA batteries, including regular flooded, AGM flat plate, AGM spiral, and gel batteries.

- **Comprehensive Battery Data Display:** Provides voltage, internal resistance, cold cranking amp (CCA), AH capacity, battery health, and charge status.
- **High Accuracy:** Equipped with a powerful and smart AI chip for over 99.99% precise testing reports within milliseconds.
- **Plug and Play Operation:** Easy to use, simply connect the clamps to the battery to power on and begin testing. Works for in-vehicle and out-of-vehicle batteries, even dead ones.
- **Starter & Alternator Test:** Beyond battery testing, it assesses the alternator's charging and starter's cranking conditions.
- **Multi-language Support:** Supports up to 8 languages for diverse user needs.

## 4. PACKAGE CONTENTS

Upon opening the package, verify that all items are present and in good condition:

- KONNWEI KW208 Battery Tester Unit
- User Manual



Image: The KONNWEI KW208 battery tester with its red and black battery clamps.

## 5. SETUP

Setting up your KW208 battery tester is straightforward:

1. Ensure the vehicle's ignition is off and all accessories are turned off.
2. Connect the red positive (+) clamp of the tester to the positive (+) terminal of the battery.
3. Connect the black negative (-) clamp of the tester to the negative (-) terminal of the battery.
4. The tester will power on automatically once connected.

 **Perfect Christmas Gift!** 

### 12V Battery Tester

### 100-2000 CCA

- GEL
- EFB
- Regular-flooded
- AGM Flat Plate
- AGM Spiral



KONNWEI®  
KW208

Select Type 1/5

- 1.Regular Flooded
- 2.AGM Flat Plate
- 3.AGM Spiral
- 4.GEL
- 5.EFB

Image: The KW208 displaying options for different battery types (Gel, EFB, Regular-flooded, AGM Flat Plate, AGM Spiral).

## 6. OPERATING INSTRUCTIONS

The KW208 offers various testing modes to diagnose your vehicle's battery and electrical system.

### 6.1. Battery Test

This test evaluates the overall health and charge status of your battery.

1. From the main menu, select "Battery Test".

2. Follow the on-screen prompts to input battery type (e.g., Regular Flooded, AGM, Gel) and CCA rating.
3. The tester will perform the analysis and display results including State of Health (SOH), State of Charge (SOC), Voltage, Internal Resistance, and CCA value.
4. The display will also provide a recommendation (e.g., "Good Battery", "Good-Recharge", "Replace Battery").



Image: The KW208 device with an overlay highlighting its high-accuracy STM32F103C8T chip, indicating precise testing capabilities.

# ALL IN ONE BATTERY TESTER



Image: The KW208 screen showing icons for different test modes: State of Charge, State of Health, Voltage Test, Cranking Test, Charging Test, Ripple Test, Data Storage, Load Test, and Resistance Test.

## 6.2. Cranking Test

This test analyzes the actual cranking voltage and time to assess the starting system's performance.

1. From the main menu, select "Cranking Test".
2. Follow the on-screen instructions to start the engine.
3. The tester will record the cranking voltage and time, providing an assessment of the starter's condition (e.g., "Cranking Normal", "Cranking Low").

# Cranking Test

Analyzes the actual cranking voltage and the cranking time to help you quickly figure out the whole state of the starting system



Image: The KW208 displaying "Cranking Test" results, showing "TIME" and "CRANKING NORMAL" with a voltage reading, indicating a successful starter system check.

## 6.3. Charging Test

This test evaluates the vehicle's charging system, including the generator, rectifier, and rectifier diode.

1. From the main menu, select "Charging Test".
2. Follow the on-screen instructions, which may include revving the engine to a specific RPM.
3. The tester will analyze the charging voltage and ripple, providing an assessment of the alternator's performance.

# Charging Test

Test different parts of charging system, including generator, rectifier, rectifier diode, and so on for a reliable charging volt value.



Image: The KW208 displaying "Ripple Test" results during a charging system test, showing a graph and voltage readings.

## 6.4. Official Product Videos

For a visual guide on operating the KW208, please refer to the official videos provided by KONNWEI:

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Video: "KW208 12V Car Battery Tester and Charging System Tester!" - A detailed demonstration of the KW208's capabilities and how to use it for both battery and charging system tests. (Source: KONNWEI Official)

Your browser does not support the video tag.

Video: "KW208 12V Battery Tester" - A concise overview of the KW208 battery tester, highlighting its key functions and ease of use. (Source: KONNWEI Official)

## 7. MAINTENANCE

To ensure the longevity and optimal performance of your KW208 battery tester, follow these maintenance guidelines:

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the tester in a cool, dry place when not in use, away from direct sunlight and extreme temperatures.
- Inspect the cables and clamps regularly for any signs of damage or wear. Replace if necessary.

- Do not expose the device to water or other liquids.

## 8. TROUBLESHOOTING

If you encounter issues while using your KW208 battery tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tester does not power on.	Incorrect or loose battery connection. Battery voltage too low.	Ensure clamps are securely connected to the correct battery terminals. Charge the battery if its voltage is below the tester's operating range.
Inaccurate readings.	Poor connection. Incorrect battery type/CCA input.	Clean battery terminals and re-connect clamps. Verify that the correct battery type and CCA values are entered in the tester.
Screen freezes or malfunctions.	Temporary software glitch.	Disconnect the tester from the battery, wait a few seconds, and then reconnect it to reset the device.

## 9. SPECIFICATIONS

Attribute	Value
Brand	KONNWEI
Model	KW208
Voltage	12 Volts
CCA Range	100-2000 CCA
Supported Battery Types	Regular flooded, AGM flat plate, AGM spiral, Gel
Item Weight	8.1 ounces (230 Grams)
Product Dimensions (L x W x H)	0.79 x 3.07 x 5 inches
Power Source	Battery Powered (from tested battery)
Operating Temperature	Up to 70 Degrees Celsius

## 10. WARRANTY AND SUPPORT

KONNWEI provides a reliable product with a focus on customer satisfaction. If you experience any quality issues with your KW208 battery tester, a new replacement may be available. Please retain your proof of purchase.

For technical support, warranty claims, or any inquiries, please contact KONNWEI customer service through their official channels. Refer to the product packaging or the official KONNWEI website for the most up-to-date contact information.

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