iKiKin BM2

iKiKin BM2 Car Bluetooth Battery Monitor User Manual

Model: BM2

1. Introduction

The iKiKin BM2 Car Bluetooth Battery Monitor is a diagnostic tool designed for 12-volt vehicle batteries. It allows users to monitor battery status, perform cranking and charging system tests, and track trip data conveniently via a smartphone application. This manual provides detailed instructions for the proper installation, operation, and maintenance of your BM2 device, ensuring optimal performance and longevity.

2. Key Features

- **Universal Compatibility:** Compatible with all 12-volt vehicle batteries.
- **Multi-Language Support:** Supports Chinese, English, Spanish, French, Italian, Norwegian, Polish, Romanian, Russian, Slovak, Arabic, Czech, and German.
- **Comprehensive Functions:** Includes Battery Monitoring, Trip Monitoring, Charging Test, and Cranking Test capabilities.
- **Automatic Low Voltage Alarm:** Alerts the user via the app if the battery voltage is low when within Bluetooth range (up to 10 meters).
- **Real-time Data:** Provides real-time display of battery voltage waveform and startup test waveform.
- **Free Mobile Application:** Utilizes the "BM2" app, available for iOS (7.1 and later) and Android (4.3 and later) devices.
- **Enhanced Safety:** Offers automatic alarm functions for battery failure or abnormal voltage/power conditions.
- **In-App Guidance:** Includes a help function within the app to explain standards for each battery test.

3. Specifications

Specification	Value
Input Voltage	6V-20V

Average Current	1.5mA
Operating Temperature	-40 to 90°C
Bluetooth Range	10 Meters
Product Dimensions	5.5 x 3.5 x 1.6 cm
Voltage Accuracy (9-16V)	± 0.03V
Item Weight	82 g
App Keyword	BM2
Included Components	Car Battery Tester

4. Setup and Installation

4.1 Device Connection

Connect the iKiKin BM2 device directly to your vehicle's 12-volt battery terminals. Ensure a secure connection:

- Attach the **red clamp** to the positive (+) battery terminal.
- Attach the **black clamp** to the negative (-) battery terminal.

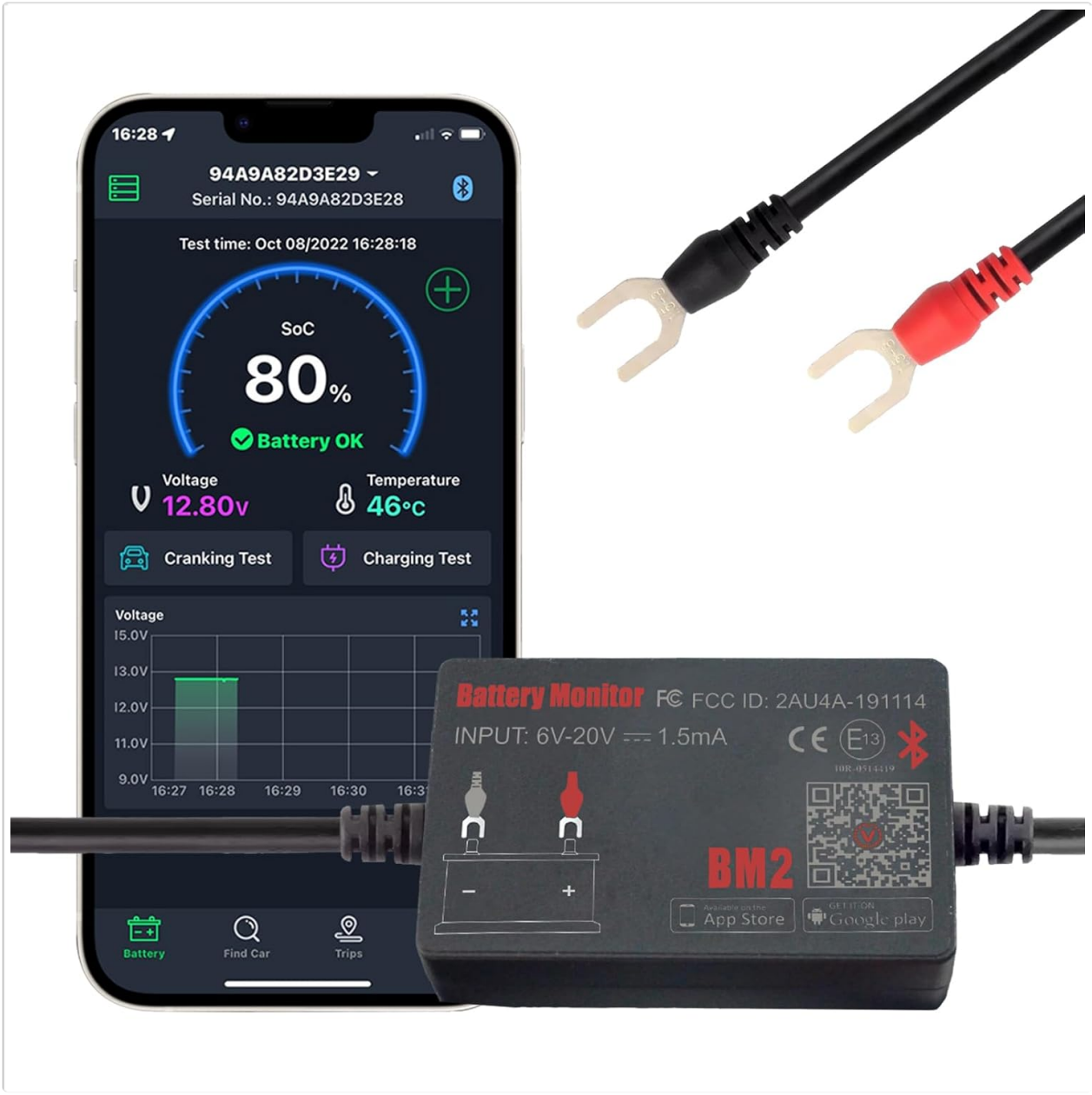

Image 1: iKiKin BM2 device connected to a car battery, with its red and black terminals attached to the battery posts. A smartphone screen displays the 'BM2' application interface, showing the battery's State of Charge (SoC) at 80%, voltage at 12.80V, and temperature at 46°C. Options for 'Cranking Test' and 'Charging Test' are visible, along with a historical voltage graph.

4.2 App Download and Bluetooth Connection

To utilize the full functionality of the BM2 monitor, download the dedicated mobile application and establish a Bluetooth connection.

1. **Download the App:** Scan the QR code provided on the device or in the user manual, or visit http://bmapp.quicklynks.com to download the "BM2" app from the App Store (for iOS) or Google Play (for Android).
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.
3. **Open the App:** Launch the "BM2" application. The app will automatically detect and connect to the BM2 device via Bluetooth. No pairing code is required.

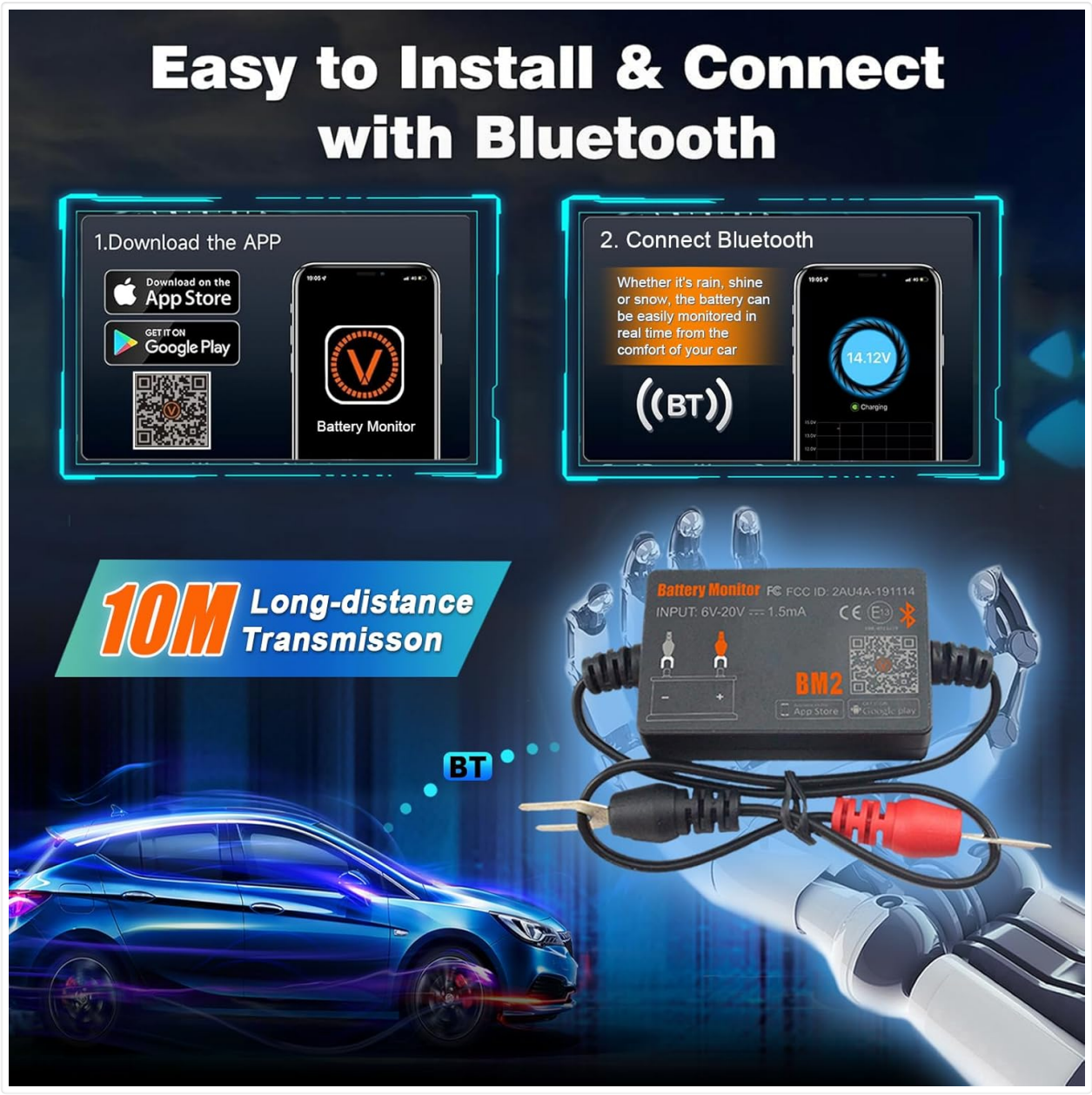

Image 2: This image details the two main steps for using the iKiKin BM2: 1. Download the 'Battery Monitor' app from the App Store or Google Play, with QR codes provided. 2. Connect via Bluetooth, allowing real-time monitoring from a distance. The image also highlights a 10-meter long-distance transmission range and shows the BM2 device connected to a car battery.

5. Operating Instructions

Once connected, the BM2 app provides various monitoring and testing functionalities.

5.1 Battery Monitoring

The main screen of the app displays real-time battery information:

- **State of Charge (SoC):** Percentage of battery charge.
- **Voltage:** Current battery voltage.
- **Temperature:** Battery operating temperature.
- **Voltage Graph:** A historical graph showing voltage fluctuations over time.

5.2 Cranking Test

This test evaluates the vehicle's starting system performance.

1. From the app's main screen, tap on "Cranking Test."
2. Follow the on-screen prompts to start your vehicle.
3. The app will display the cranking voltage and indicate if the cranking power is sufficient.

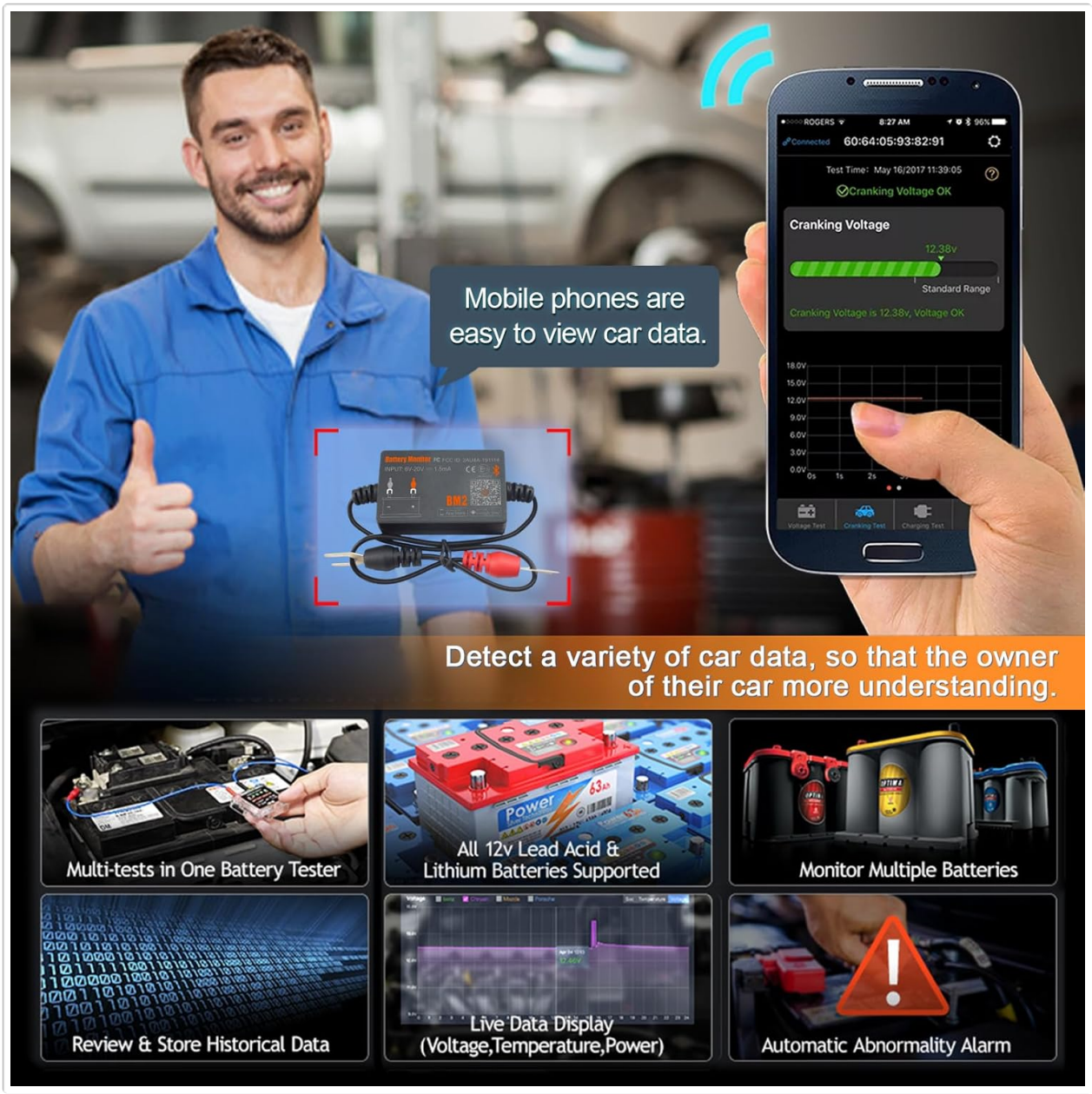

Image 3: A mechanic gives a thumbs-up while a smartphone screen displays the results of a cranking test performed by the iKiKin BM2. The screen shows 'Cranking Voltage OK' with a voltage of 12.38V, indicating a healthy starting system. The image emphasizes the ease of viewing car data on mobile phones and the device's ability to detect various car data.

5.3 Charging Test

This test assesses the vehicle's charging system (alternator) performance.

1. From the app's main screen, tap on "Charging Test."
2. The app will guide you through testing at idle and potentially at higher RPMs.
3. Results will show charging voltages and indicate if the charging system is operating correctly.

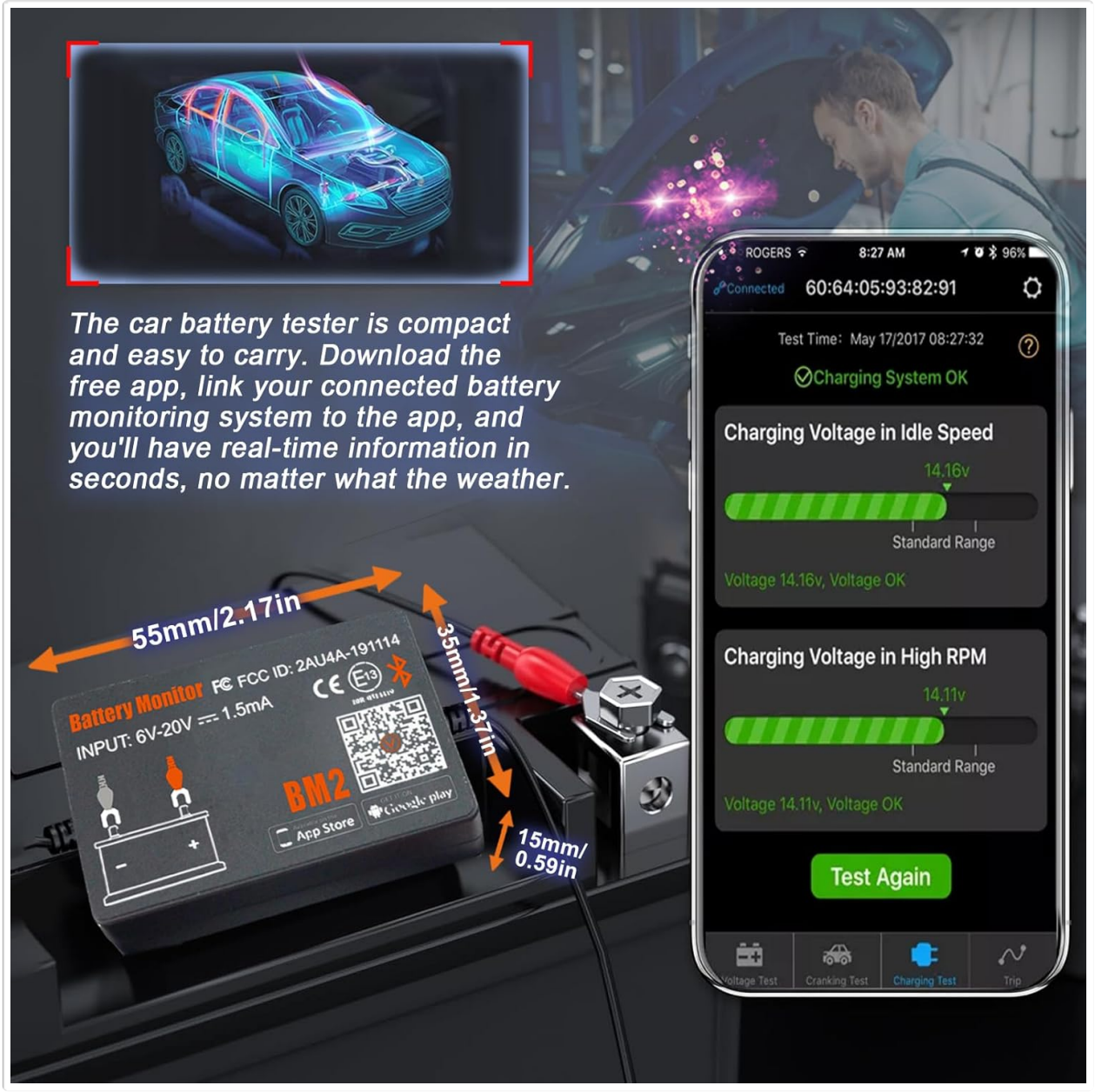

Image 4: This image provides the dimensions of the iKiKin BM2 device (55mm/2.17in length, 35mm/1.37in width, 15mm/0.59in height). Alongside, a smartphone screen shows the results of a charging system test, indicating 'Charging System OK' with charging voltages at idle and high RPM (14.16V and 14.11V respectively), both within the standard range.

5.4 Trip Monitor

The Trip Monitor feature records and displays historical driving data, allowing you to review battery performance over various trips.

5.5 Automatic Low Voltage Alarm

The device is equipped with an automatic low voltage alarm. If your battery voltage drops below a safe threshold, the app will notify you when your smartphone is within Bluetooth range of the device.

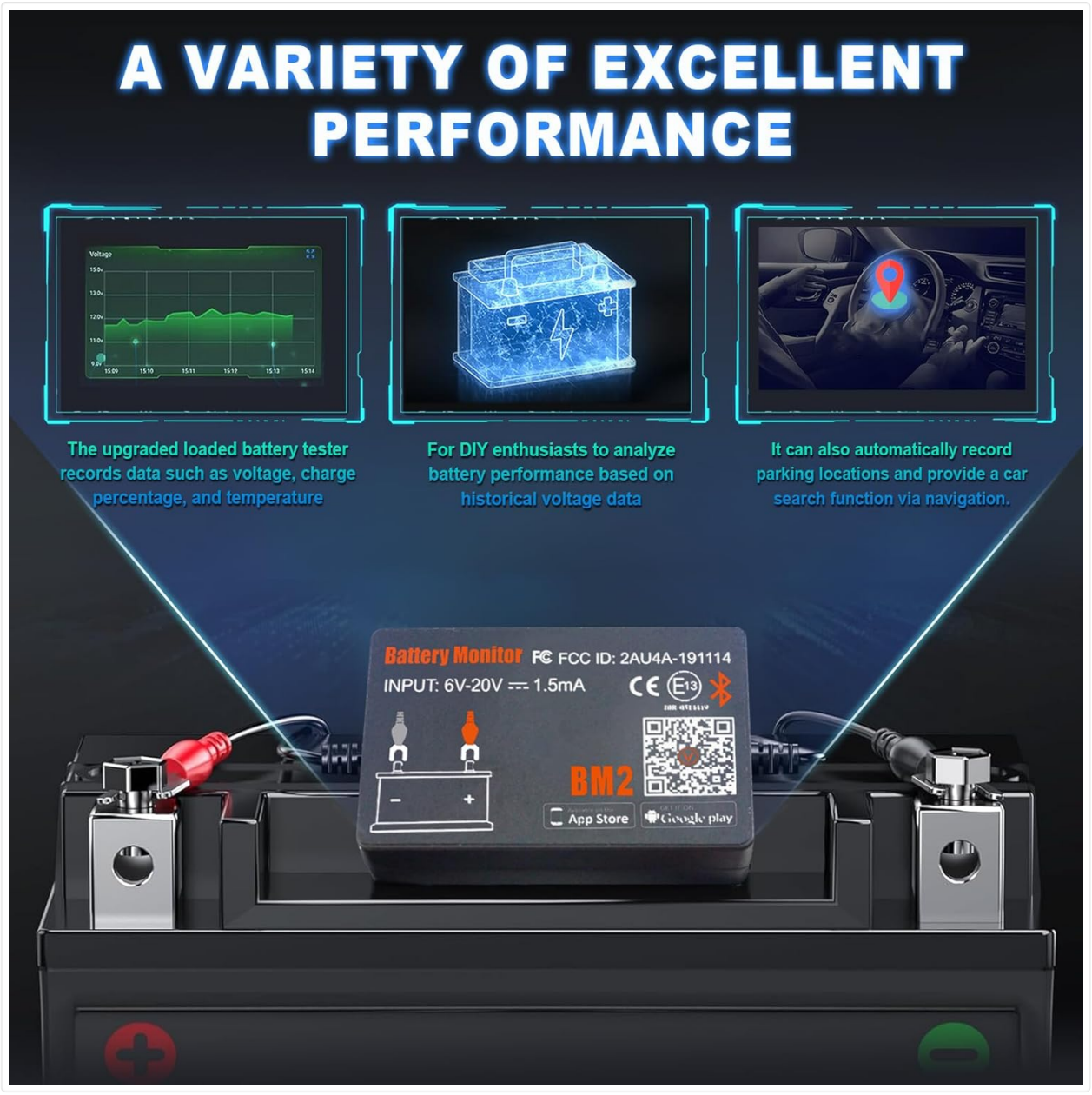

Image 5: This image showcases the advanced performance features of the iKiKin BM2. It illustrates three key capabilities: 1. The upgraded battery tester records data such as voltage, charge percentage, and temperature over time. 2. It allows DIY enthusiasts to analyze battery performance based on historical voltage data. 3. It can automatically record parking locations and provide a car search function via navigation.

6. Maintenance

To ensure the longevity and accurate performance of your iKiKin BM2 Car Bluetooth Battery Monitor, follow these simple maintenance guidelines:

- **Keep Connections Clean:** Periodically check that the red and black clamps are clean and securely attached to the battery terminals. Corrosion or loose connections can affect readings.
- **Protect from Elements:** While designed for automotive use, avoid exposing the device to excessive moisture, extreme temperatures outside its operating range (-40 to 90°C), or direct physical impact.
- **Software Updates:** Regularly check for updates to the "BM2" mobile application to ensure you have the latest features and performance enhancements.

7. Troubleshooting

If you encounter issues with your iKiKin BM2 device, refer to the following common troubleshooting steps:

- **Device Not Connecting via Bluetooth:**
  - Ensure the BM2 device is correctly connected to the car battery.
  - Verify that Bluetooth is enabled on your smartphone.
  - Check if the "BM2" app has the necessary Bluetooth permissions on your phone.
  - Try restarting the app or your phone.
- **Inaccurate Readings:**
  - Confirm that the clamps are firmly attached to the correct battery terminals (red to positive, black to negative).
  - Clean any corrosion from the battery terminals and device clamps.
- **Low Voltage Alarm Persists:**
  - This indicates a genuine low battery condition. Consider charging your battery or having it professionally tested.
  - If the battery is new or recently charged, check for parasitic drains on your vehicle's electrical system.
- **App Crashing or Freezing:**
  - Ensure your app is updated to the latest version.
  - Clear the app's cache or reinstall the app.
  - Verify your smartphone meets the minimum operating system requirements (iOS 7.1+ or Android 4.3+).

8. Warranty and Support

For information regarding product warranty, returns, or technical support, please refer to the documentation provided at the time of purchase or contact the manufacturer directly through their official website. Keep your purchase receipt as proof of purchase.