

Overview

1 Menu

HOME
ABOUT
(Company info & APP version)

2 Connect / disconnect

3 Battery capacity

4 Voltage display / Charging status

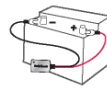
5 Voltage recording day/year

6 Setting page



1

A. Installation & Download the APP



- 1 Attach the two cables, RED and BLACK of the BattCheck, RED to the Positive + and Black to the Negative - posts of the Battery.
- 2 Secure BattCheck on top of the battery after cleaning the Battery surface, by using the 3M tape included

- 3 If the installation is completed correctly, the red LED on the BattCheck will flash. Turn on the "Bluetooth" feature on your Smartphone. For Android smartphones, we recommend turning off the "Wi-Fi" to receive a better Bluetooth signal. Download the BattCheck APP from GooglePlay or the APP store. You can do this via the QR code, at the GooglePlay or in the APP store, search for "BattCheck".

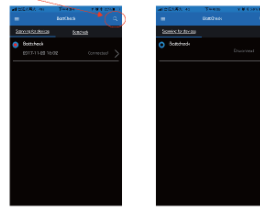
- 4 After downloading it on your smart phone, you may tap the BattCheck icon to open the APP, the APP will go to the home page.



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B. BattCheck device connect to the APP

Tap here to search for devices. After that, the home page opens.



Select the device to be connected. Once connected, the LED on the BattCheck will show a steady RED.

The first page is the voltage meter.

By default, the device is known as "BattCheck". It can be renamed on the setting page (see fig. Overview 6).

To delete a scanned device, you may tap the device on the APP and drag the line to the left.

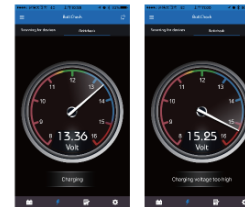
A red box showing "Delete" will open. This page with the listed devices called HOME may be selected via the menu.

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C. Voltage meter

The colors on the dial of the voltage indicator shown in the overview have the following meanings:

- Red on left side Under voltage - see F.early warning functions
- Yellow Low voltage
- Green Normal voltage
- Blue Battery is charging.
- RED on right side Charging voltage too high, regulator may be malfunctioning - see F. early warning functions.



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D. Background mode / Return to the device

Pressing on the Home button of the smartphone, will hide the APP, but the APP will continue to work in the background. In the case of a battery malfunction, i.e. for Overvoltage or Under voltage, you will receive an early warning on your smart phone with a ringtone and with a vibration alarm.

Please note that the active APP on the Smart Phone receives a large amount of data from the BattCheck, thus consuming the battery power of the smartphone. We recommend that you pay attention to the status of the battery on the smartphone during a long journey.

When leaving the Bluetooth area, the connection to the APP will be automatically disconnected.

If only one device is stored in the APP, on returning to the device, tap the BattCheck APP icon on the Smart Phone and then the "Connect" icon, this will reconnect the APP to the device.

If several devices are stored in the APP, only the desired device must be selected and tapped on that line.

To close the BattCheck completely, double-clicking the home button on the Smartphone, will bring up all the APPs that are open on the smart phone. By pushing upwards the displayed APPs on the smart phone, will close the APPs you push up. To close the BattCheck APP do the same.

Upon returning to the device, touch the BattCheck APP, the APP will automatically connect to the device. This Applies however only when you return to the same device which was checked with the APP the last time. In other cases, the desired device must be selected from the home page.

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E. Checking the battery status

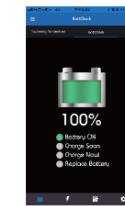
Note:

Please check the battery status only with a cold engine, since a precise analysis of the battery quality can only be carried out under that condition. The engine should have been non-operational for at least one hour.

Touch the battery icon.

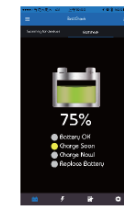
Turn on the ignition, but do not start the engine yet. Switch on the low beam and turn off all other power consumers (heated seats, blower, etc.). After about 10 seconds, the BattCheck shows the user the current battery status. The BattCheck can show four different battery qualities:

• Battery OK

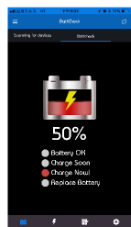


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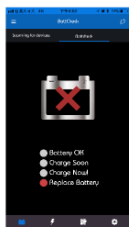
• Charge soon



• Charge now



• Replace battery



Please Note:

The BattCheck does not just monitor the current battery level by means of the applied voltage, but also has the patented technology of "determining the discharge curve" to show the actual battery level. For that reason, the headlights must be turned on when the battery level is checked, so that the battery is undergoing a discharge process. Here the voltage displayed on the BattCheck shows the battery's decrease in voltage that is caused by the drain. This is the foundation for the determination of the actual battery level.

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F. Early warning function:

Check the functioning of the alternator, belts, connections, wiring and the controls.

When the alternator is working, and the battery is charging, you will see the words "Charging" (see picture in Section C.) appear, below the voltage display.

When the alternator is not working, and the battery does not receive the charge, you will see no words appear below the voltage display. The status appears on the voltage display as low voltage. When driving the vehicle, if the voltage continues to be in the red area of the voltmeter, on the left side of the dial, this indicates low voltage, and the driver will receive a ring tone and vibration as an early warning of potential failure of the alternator.

When the voltage is not regulated correctly the voltage meter will sense a high charging voltage and you will see the words "Charging voltage too high" (see picture in Section C.) appear below the voltage display and the voltage reading in red will be to the right side of the dial. The driver will receive a ring tone and vibration on the smart phone as an early warning of potential failure to the electrical system.

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G. Technical data

- Bluetooth 4.0, 2.4 GHz 1 mW, range 10 m.
- Frequency range: 2402 – 2480MHz
- Maximum output power (EIRP): -3dBm
- Voltage range 4-32 V = (6/12/24V automatic detection)
- Monitored voltage range 4- 30 V
- Power consumption = active total < 8 mA
- Sleep mode: 270 µA
- RX down: 14.7 mA
- TX (0 dBm): 14.3 mA
- Temperature range – 40~+ 85 ° C
- Reverse-polarity protection
- Waterproof: IP66
- Dimensions: 36 x 23 x 18 mm (LxWxH)
- Weight: 22.3 g

H. 12 month Warranty

Battcheck comes with a 12-month warranty against defects or failure within 1 years of purchase. Warranty does not cover failures due to accidental damage, if submerged in water, misuse or failure to follow installation instructions. If the unit is open without the manufacturer's assistance, it will completely void the warranty.

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J. Caution:

- 1 READ ALL INSTRUCTIONS ON OPERATION
- 2 CHECK CAREFULLY BEFORE USING THE PRODUCT.
- 3 FAILURE TO FOLLOW CAN CAUSE SEVERE INJURY OR DEATH.
- 4 WORKING NEAR A LEAD BATTERY IS DANGEROUS.
- 5 Damage caused by disregarding this instruction manual will void the warranty, and the consequential damage will not be covered by the manufacturer.
- 6 NEVER smoke near the battery or the motor. Make sure that there is no spark or flame near the battery.
- 7 Avoid dropping a metal object on the battery. This may cause a spark or a short circuit in the battery or other electrical part, which may result in a battery explosion.
- 8 The product is not a toy, it is not suitable for children. Children should never assess the dangers of handling electrical equipment.

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FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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BattCheck
Instruction Manual