

# BATTERY **GUARD**

## USER MANUAL



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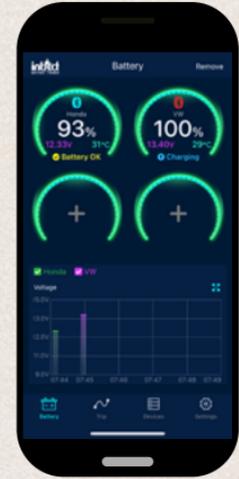
**intAct**  
BATTERY - POWER

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**BATTERY** *GUARD*

**APP**



The product is used to monitor the car battery, starting system and charging system. After the device is connected to the battery, it can be connected to your smartphone via Bluetooth 5.3. When problems occur with

the battery, starting or charging system occur, it can send a notification to the user. Besides, the user can also record his travelled distance. This product is compatible with all 12V lead-acid and lithium batteries.

## 1.0 Information about the product

<b>Average power consumption</b>	0,534 mA (Bluetooth not connected) 1,7 mA (Bluetooth connected)
<b>Input voltage</b>	6-19V
<b>Operating temperature</b>	-30 bis +80 °C (-22 bis +176 °F)
<b>Dimensions</b>	63*45*13mm (L*B*H)
<b>Measurement accuracy</b>	±0.03V
<b>Short circuit protection</b>	Built-in
<b>Reverse Polarity Protection</b>	Built-in
<b>Bluetooth-Version</b>	5.3
<b>Bluetooth Name</b>	Battery Guard
<b>App Name</b>	intAct Battery-Check

## 2.0 Safety instructions

The product housing and cables are made of fireproof materials and are suitable for high temperatures. There is a built-in safety switch to prevent short-circuits, which automatically switches off the device as soon as the current is too strong. Also, reverse polarity protection is built in, so in case of reverse polarity, there will be no damage to the battery, vehicle or device.

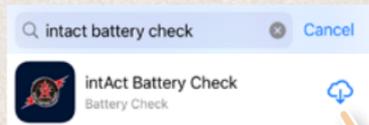
## 3.0 Installation instruction

1. Attach the red connector to the positive terminal and the black connector to the negative terminal and tighten the screws.
2. Attach the device to the battery housing with the supplied double-sided adhesive tape. Clean the surface before taping.



## 4.0 App Installation

Download the app before using the device. To do so, scan the QR code on the product or packaging or search for „intAct Battery Check“ in the App Store or Google Play Store.



### 4.1 Bluetooth radius

As long as there are no obstacles or other interference factors between the device and your smartphone, the Bluetooth connection between the device and the app will remain within a radius of up to 10 meters. If there are obstacles or other interfering factors within this radius, this may affect the connection and reduce the connection radius.



## 4.2 App operation

### 4.2-1

Click on the app icon, run the app and turn on the Bluetooth of your smartphone.

### 4.2-2

Please allow the app to access the location even if you are not using the app.

If you do not, the product will not automatically notify the user when a problem is detected on the battery.

### 4.2-3

Please allow to receive notifications.

Then the device will send you notifications regarding the car battery, start system and problems. These notifications will be sent when your smartphone is within the Bluetooth radius of the device.

### Allow "Battery Check" to use your location?

Allow Access: When close to battery, the battery and related system data will be automatically sent to the app with a fault notice if it exists.

Allow Once

Allow While Using App

Don't Allow

### "Battery Check" Would Like to Send You Notifications

Notifications may include alerts, sounds, and icon badges. These can be configured in Settings.

Don't Allow

Allow

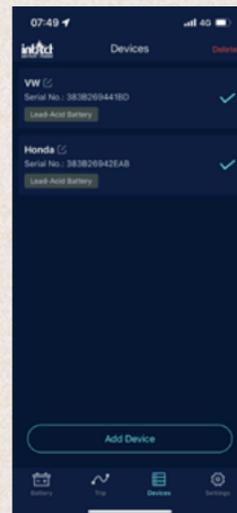
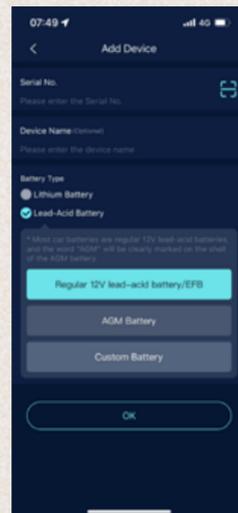
## 4.2 App-Bedienung

### 4.2-4

To add a device, it is necessary to enter the serial number of the device, which can be scanned by barcode or entered manually. The serial number incl. barcode can be found on the subpage of the device and on the page of the device. Please select the battery type and name the device for better recognition..

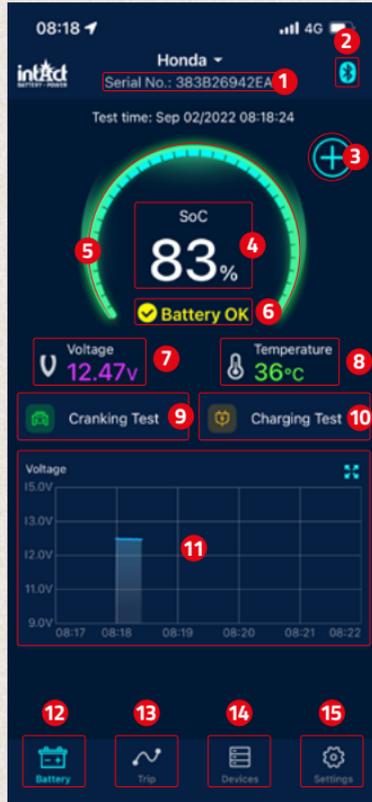
#### Notice:

The app supports multiple devices, and up to four devices can be displayed in the app at the same time. You can also click the „Edit“ icon or the „Delete“ button to rename or delete the device..



## 4.25 Basic functions – First Interface

1. Here you can edit the device name and assign an individualized name to your Battery-Guard.
2. If the device is connected to the app, the Bluetooth icon will turn blue, if the connection is lost, it will turn red. By default, the app automatically connects to the device as soon as it is within Bluetooth range.
3. Here you can add a new device or select the one to be displayed from the already added devices. Up to four devices can be displayed at the same time.
4. Battery charge level in percent.
5. The color of the ring changes according to the battery charge level.
6. Battery status display: battery OK (yellow), battery charging (blue), low battery (red).
7. Anzeige der Batteriespannung in Echtzeit
8. Display of battery voltage in real time.
9. This takes you to the start test user interface. Every time the engine starts, a start test is automatically performed.
10. Here you can access the charge test user interface and test the charging system manually.



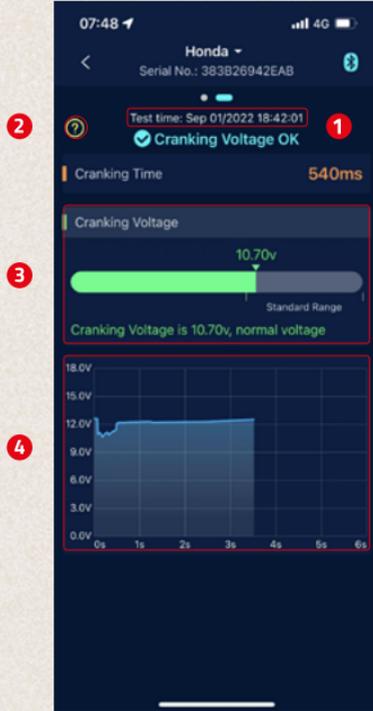
11. Battery voltage history graph: Click on the graph to enlarge it. The graph shows you either the state of charge in %, the temperature or the battery voltage in volts. Here you can choose between the display of one day, 3 or 5 days. You can also switch between the days at the top center.



12. Start screen
13. Overview of your journeys
14. Devices list
15. Settings

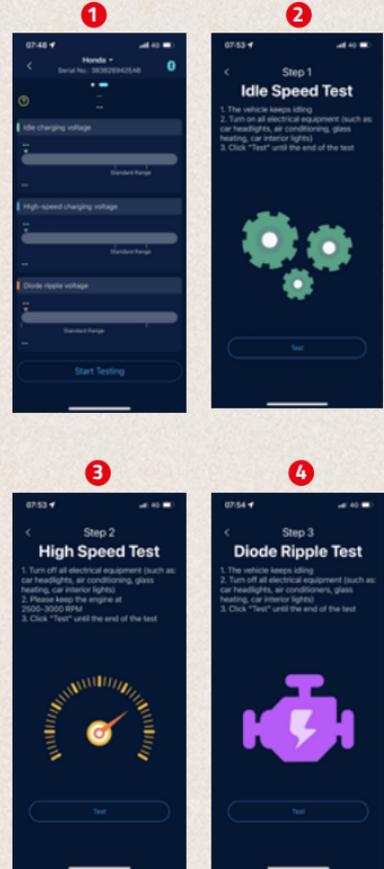
## 4.3 Cranking Test

1. Engine start time
2. Starter test: When the engine starts, the device automatically tests the starting system and stores the test result. If the voltage is higher than 9.6 V during starting, this is considered normal. However, if the starting voltage is below 9.6 V, this indicates a defect. This may mean that the battery is too weak due to lack of charge, aging or other factors, the starter motor is defective or there is another problem.
3. Display of the start voltage. Green indicates a normal value, red indicates a too low starting voltage.
4. Graphical representation of the starting span.



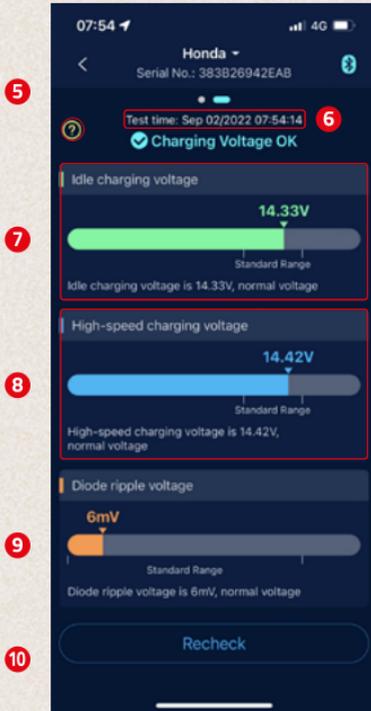
## 4.4 Loadtest

1. Start test
2. To test the open circuit voltage, please leave the vehicle in neutral, switch on all electrical consumers. The test will take about 6 seconds.
3. For high speed voltage test, please turn off all electrical consumers, increase the speed to 2500-3000/min and hold it for 6 seconds. then the test is finished.
4. For the diode ripple test, please run the vehicle at idle, turn off all electrical devices. This test takes 6 seconds.



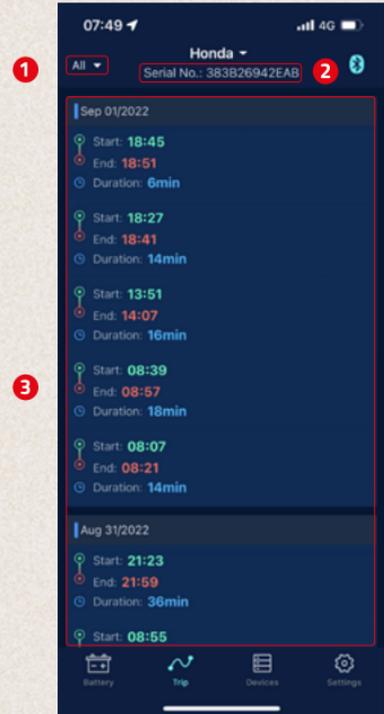
## 4.3 Loadtest

5. Help screen for interpreting the results:  
**Charging voltage normal:** charging system indicates alternator output is normal, no problem detected.  
**Charging voltage too low:** Check if the drive belt is slipping or if the line connection between alternator and battery is normal or not. If the drive belt and line connection are OK, please follow the vehicle manufacturer's recommendations to rule out alternator failure.  
**Charging voltage too high:** The output voltage of the alternator is too high. Please contact a specialist workshop to check the charging device. The usual voltage for automotive regulators is  $14.7 \pm 0.5$  V. A high charging voltage leads to overcharging of the battery and shortens the service life, and malfunctions may also occur.
6. Time of the end of the load test
7. Open circuit voltage: Green means normal, red indicates too high or too low voltage.
8. Voltage at higher speeds: Blue means normal, red indicates too high or too low voltage.
9. Diode ripple test: Orange means normal, red indicates too high or too low voltage.
10. Here you can repeat the test.



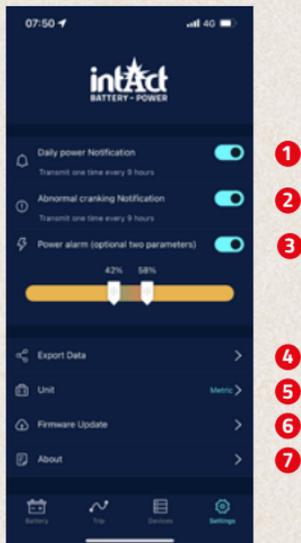
## 4.5 Overview of the trips

1. Click on the icon to select the logbooks of each month or all trips.
2. Select a specific device to view the driving data.
3. Start time, operating time and misfire time of each trip.



## 4.6 Settings

1. Daily notification: Blue is on, white is off. The system default is no more than one notification in 9 hours, the notification frequency can be adjusted.
2. Abnormal startup notification: Blue is on, white is off. The system default is no more than one notification in 9 hours, the notification frequency can be adjusted.
3. Voltage alarm: Two limit values can be set with the sliders. When the battery power falls below or rises above these values, the user receives an app notification about the state of charge.
4. Export data: Here you can send the history data of the selected month in Excel via email or share it via WhatsApp, Skype, Facebook, etc.
5. Unit: Here you can set the unit to metric or imperial.
6. Firmware Update: Here you can check the hardware version and also update new firmware when a new version is available.
7. About: Here you can find privacy, FAQ, feedback and app version..



**FAQ:** This submenu lists the frequently asked questions and provides the corresponding answers.

**Feedback:** Here you can give feedback about the app or the device or report problems.

App version: Display the current app version number.

## 5.0 More hints

1. The product should not be used beyond the specified voltage range (6-19 V), too high input voltage may damage the device.
2. The app requires smartphones with: Android 5.0 and above, iOS 10.0 or later.
3. When the smartphone comes within Bluetooth range, it receives a notification.
4. If the daily test alert function is not enabled, when the smartphone is near the device, it will also not be able to receive a notification about the daily test result. You can enable this both in the app and in the phone's settings.
5. If the alert function is not enabled and the smartphone is near the device, it will not be able to receive an alert notification. You can enable the notification both in the app and in the phone's settings.
6. The firmware update will delete all data in the device. Please open the app and wait until the synchronization is complete before updating the firmware.
7. All recorded data is stored on the phone, when the app is upgraded, this data is not lost. But when the app is uninstalled, the data will be deleted.
8. The device automatically monitors the vehicle battery, starting and charging system. The device can store data for up to 72 days. Please connect the app at least once within 72 days to ensure that the data is saved for the long term.
9. If the app cannot connect to the Battery Guard device, please make sure that the smartphone's Bluetooth is turned on, you are near the device, and the device has been added correctly.

All manuals in other languages can be downloaded here:



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