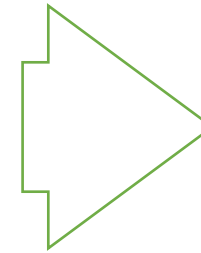
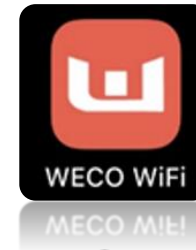
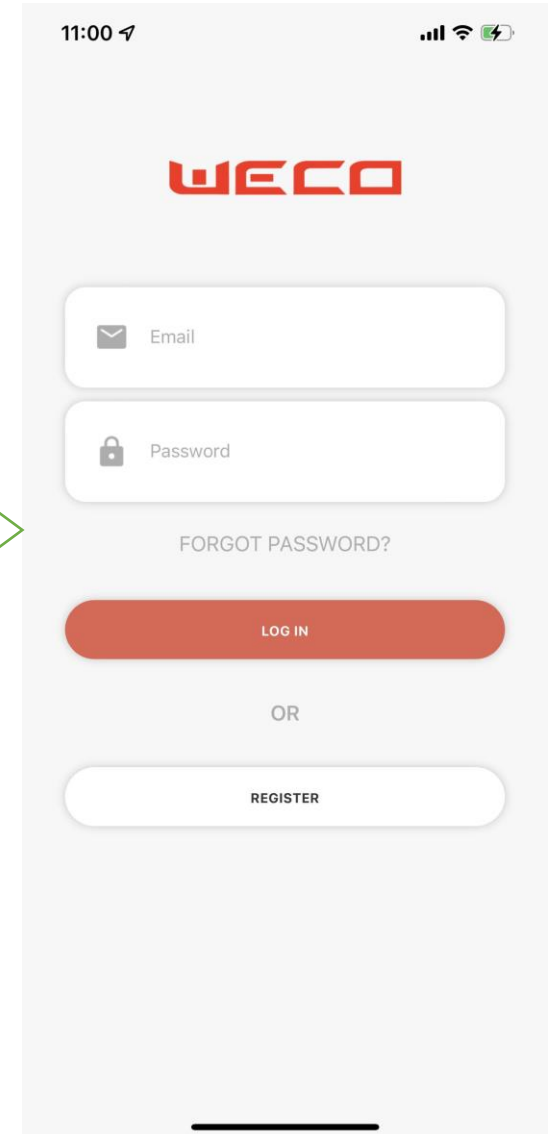
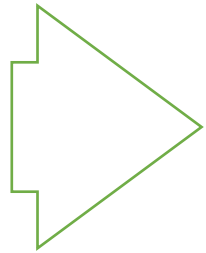
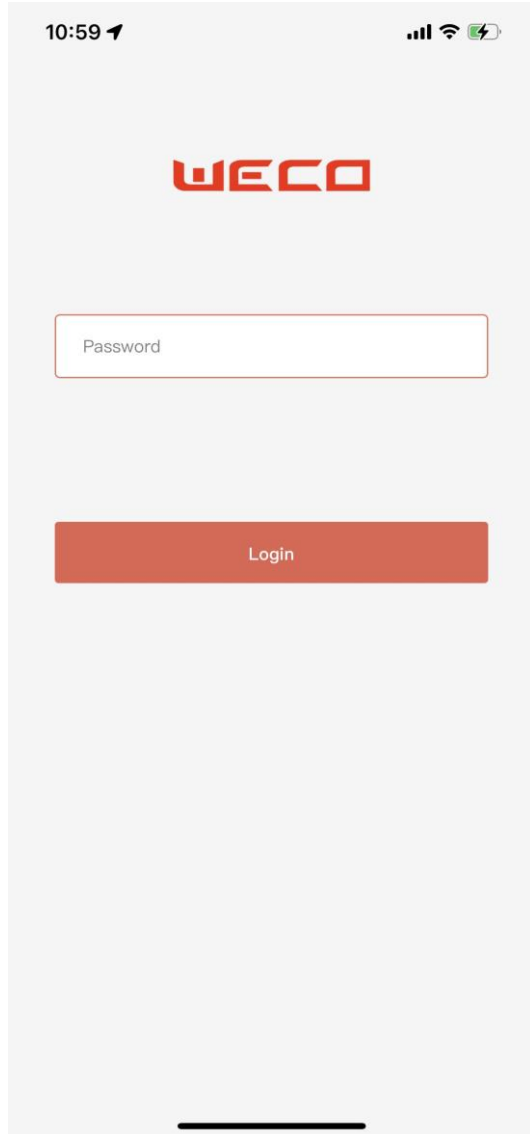







# LOCAL and WiFi APP MONITORING APP FOR ANDROID AND APPLE

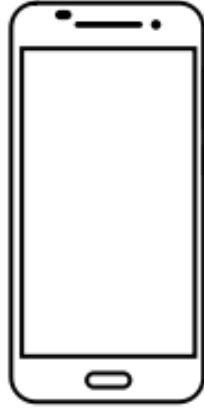
android 







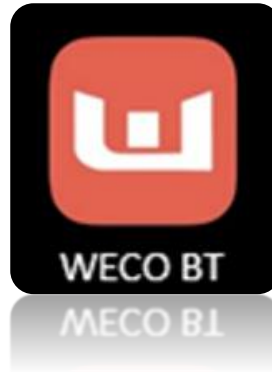
<div style="text-align: center;">APP TYPE</div> <div style="text-align: center;">ROLES</div>	<div style="text-align: center;">  <b>Bluetooth®</b>  APP NAME WECO LOCAL  Only for Local direct Connections </div>	<div style="text-align: center;">  <b>WiFi™</b>  APP NAME WECO WiFi  Device Pairing with Local Wi-Fi + Mobile Phone with Data Access </div>
	<p>No need to register as user  No Need Password  Need Android or IOS Mobile  Need Mobile with Sim Card  Need Access to 4G</p> <p><b>FUNCTIONS</b></p> <ul style="list-style-type: none"> <li>-BMS FW UPGRADE</li> <li>-Protocol Modification</li> <li>-Single Module Connection</li> <li>-Local Live data from the battery</li> <li>-No Historical chart for Energy Flow</li> </ul>	<p>Need to register with an Email address  Need have a personal account ( in app created)  Can Monitor Multiple Clusters  Can Give permissions to others adding their email address</p> <p><b>FUNCTIONS</b></p> <ul style="list-style-type: none"> <li>-Live data ( refresh every 4 minutes)</li> <li>-Cluster Overview ( multiple Modules)</li> <li>-Historical Data</li> <li>-Warns and Events log</li> <li>-BMS FW Upgrade</li> <li>-No Cloud access via Browser</li> </ul>
	<p>Password: 1010</p> <ul style="list-style-type: none"> <li>-BMS FW UPGRADE</li> <li>-Single Module Connection</li> <li>-Live data from the battery</li> <li>-Manual Balancing</li> </ul>	<p><b>ADDITIONAL FUNCTIONS</b></p> <ul style="list-style-type: none"> <li>-Master Account provided by WeCo for extensive access</li> <li>-Add manually the S/N of the battery to see more systems</li> <li>-Get notifications from multiple accounts</li> <li>-Get access via Browser / PC to multiple systems</li> </ul>
	<ul style="list-style-type: none"> <li>-Password: *****</li> <li>-BMS FW UPGRADE</li> <li>-Factory Reset</li> <li>-Shunt /Current BQ setting</li> <li>-SOC Setting</li> <li>-Equalizer calibration</li> </ul>	<p><b>ADDITIONAL FUNCTIONS</b></p> <ul style="list-style-type: none"> <li>-Data analytics</li> <li>-Notifications</li> <li>-Deep Log analysis</li> <li>-Remote access to the BMS + Remote Control</li> <li>-Cloud Access, Data download CSV-</li> </ul>



## **The APP INTERFACE IS THE SAME FOR BOTH APPLE AND ANDROID**

Same Functions and Graphic has been adopted for both, however due the operative differences between IOS and Android minor differences can be noticed

Please note, this is a WiFi interface and the data are collected via a remote server, the APP is updated every four minutes.  
For Live Data need to use the Bluetooth Connection APP

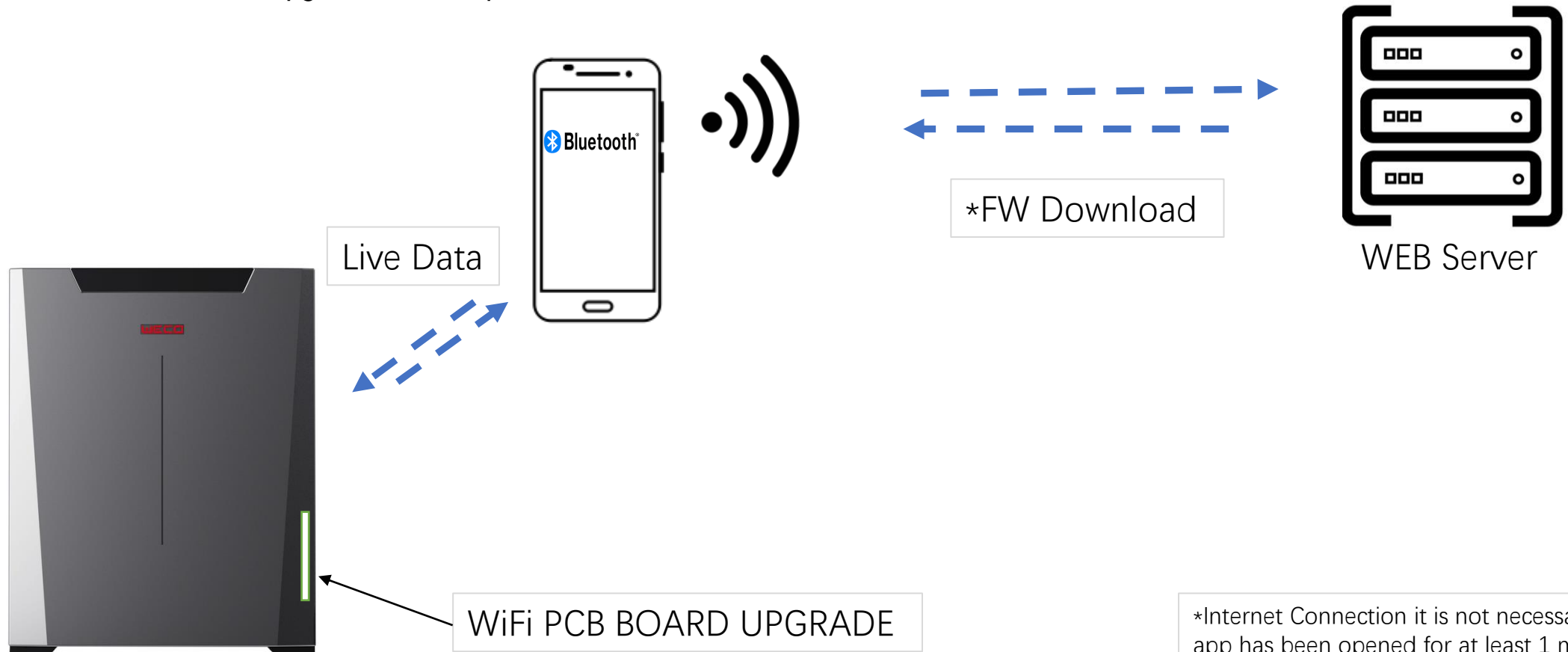


AVAILABLE ON GOOGLE PLAY  
**WECO BT**

AVAILABLE ON APPLE STORE  
**WECO BT**



1. After the APP installation need to open the app and let the APP synch with the server to download the FW, this operation is fully automated, no actions are required by the user.  
The FW download will take less than 1 minute.  
The APP will show a POP UP with a WARNING only if the FW cannot be downloaded.  
The APP automatically download the most updated FW in back ground and will be stored on your mobile phone, just open the app for 1 minute to let the APP call the server and download the most updated FW  
For Live Data and FW upgrade is not required an internet connection

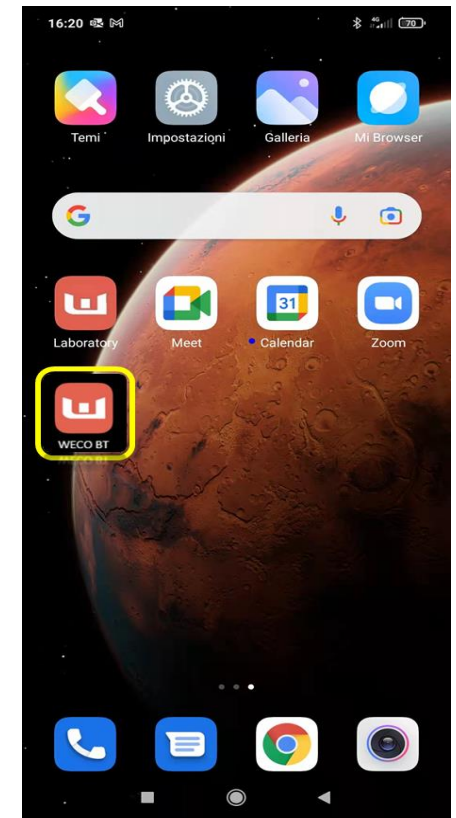


\*Internet Connection it is not necessary on site if the app has been opened for at least 1 minute with an active internet connection, before reaching the site



## BLUETOOTH APP / LOCAL CONNECTION

**Step 01** Download the APP for Android or Apple from our WeB site or from the Market Place and install on your mobile giving permission for the Privacy and Bluetooth



If the Battery module is not marked as XP it is necessary to use an external WiFi device

Unbox the WiFi Device

Make sure the Bar Code is clearly visible for further scanning with the APP







## BLUETOOTH APP / WiFi Board

XP Models are equipped with Inbuilt WiFi and Bluetooth Device linked with the BMS

The Module is locate on the Right side of battery.

For maintenance It is necessary to remove the Top Cover of the battery.

The PCB has two LED visible from the ventilation grill on the side of the LID

The RED LED shows the Connection to a local WiFi, when is searching for a WiFi network the LED will blink fast.

When is connected to the server with an active internet connection, the LED will blink Slowly

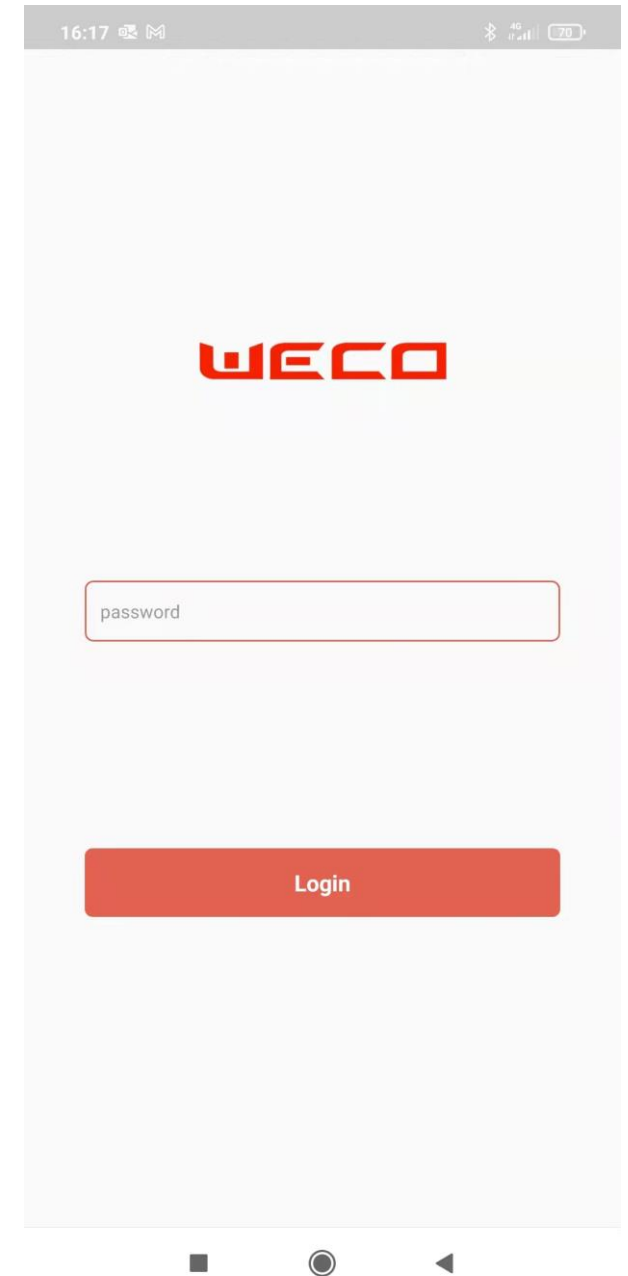




STEP 4: Access the APP and follow the instructions (POP UP)

Insert password> 1010 (Installers)

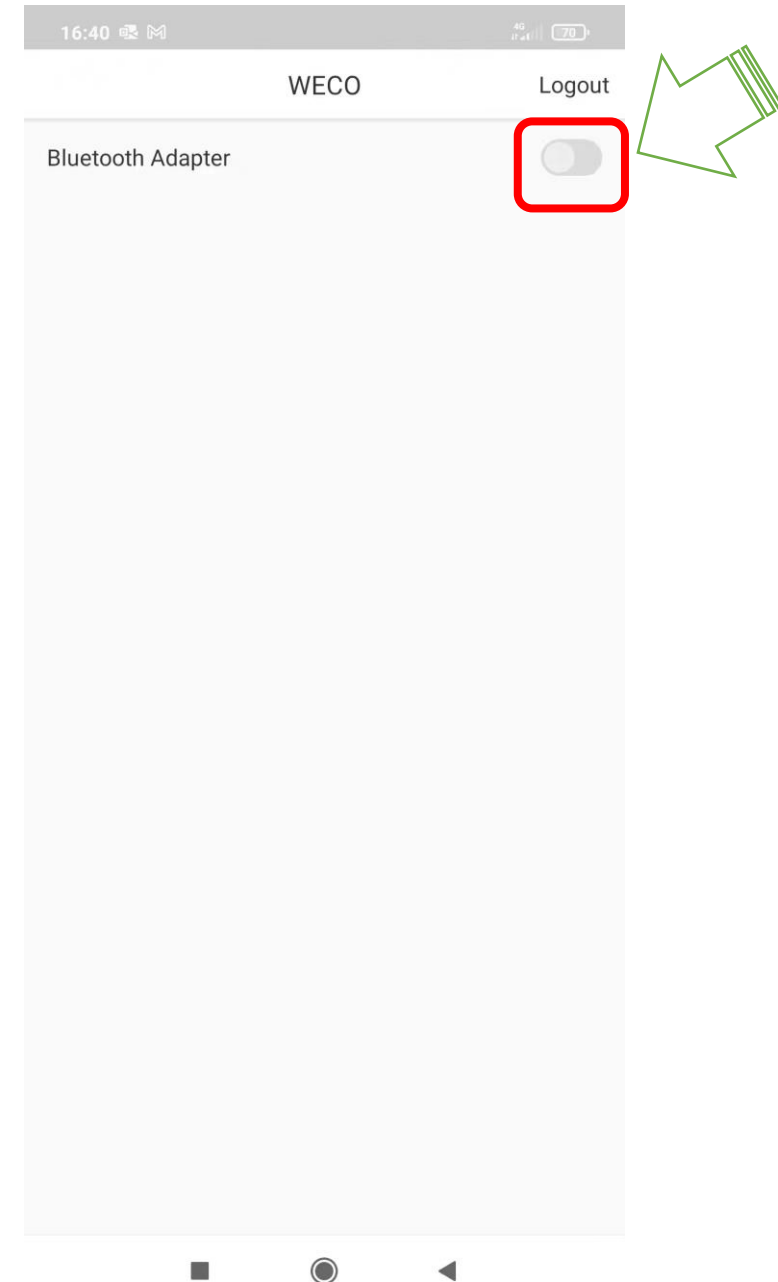
Free Access by pressing Log In





**STEP 5** ENABLE the Bluetooth adapter on your Mobile Phone

Slide to the right the Adapter Button that is located on top of the main page of the APP



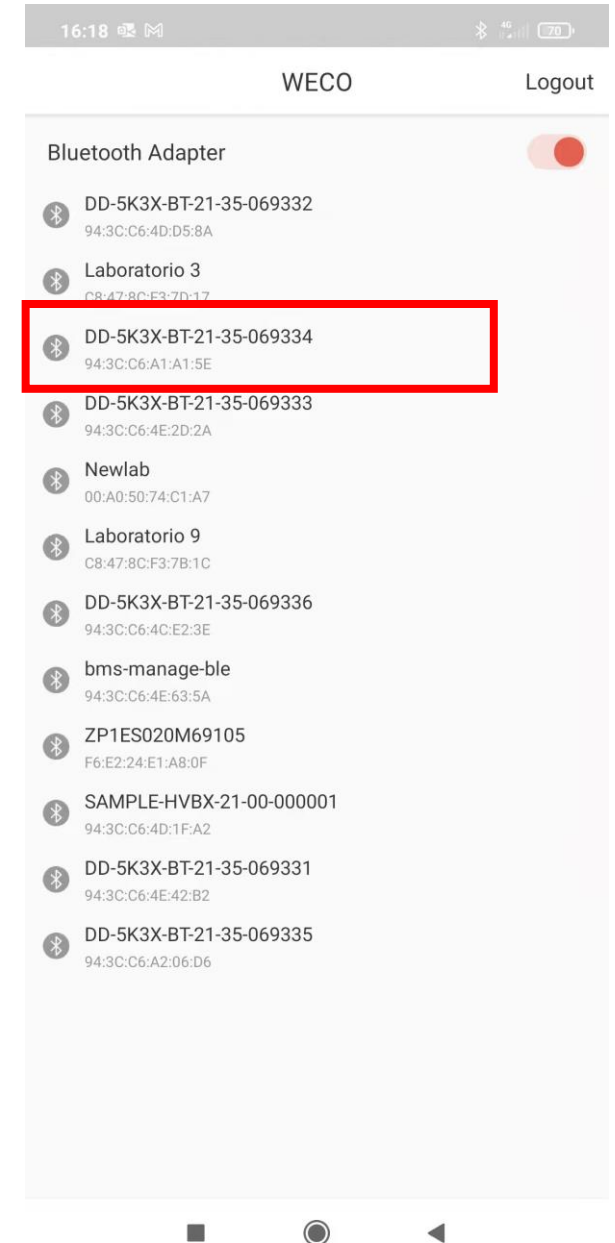


## STEP6: Select the Battery you want to connect with

The name of the battery is the same of the battery SN on the label.

### Warning.

The Bluetooth APP works only with one battery, multiple connections are not supported



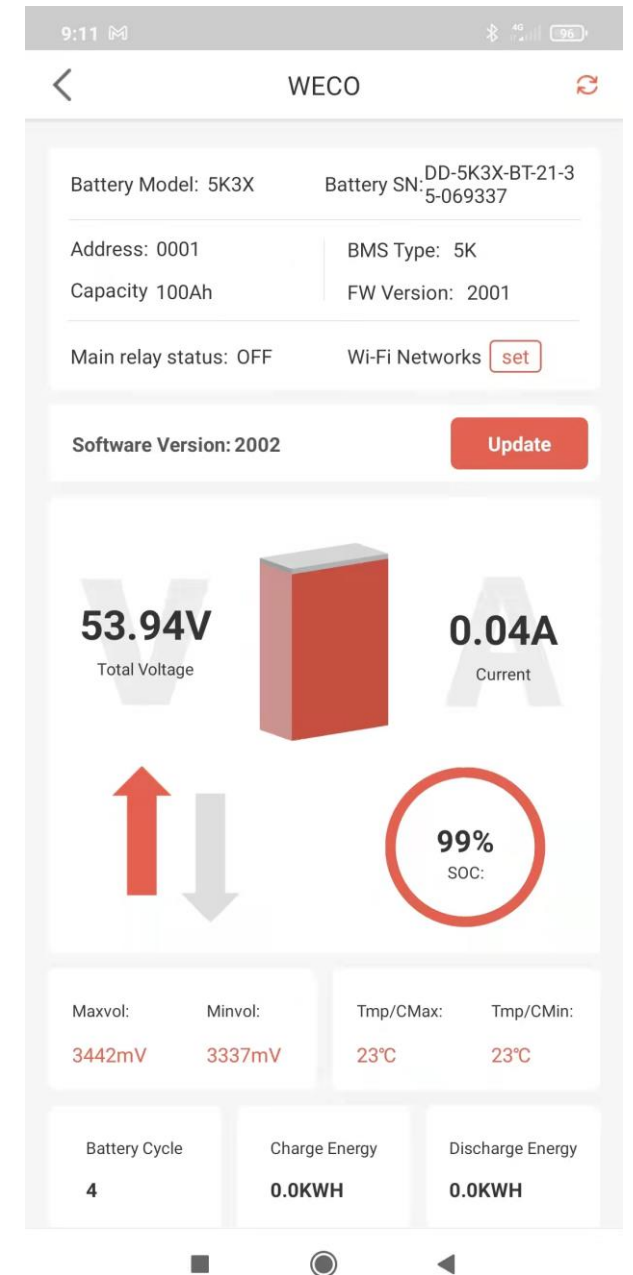


## STEP7: BLUETOOTH CONNECTION

During the first connection could be normal to have no data from the battery  
Just scroll down to refresh the main page

### Main Functions:

- Battery Monitoring
- FW Upgrade



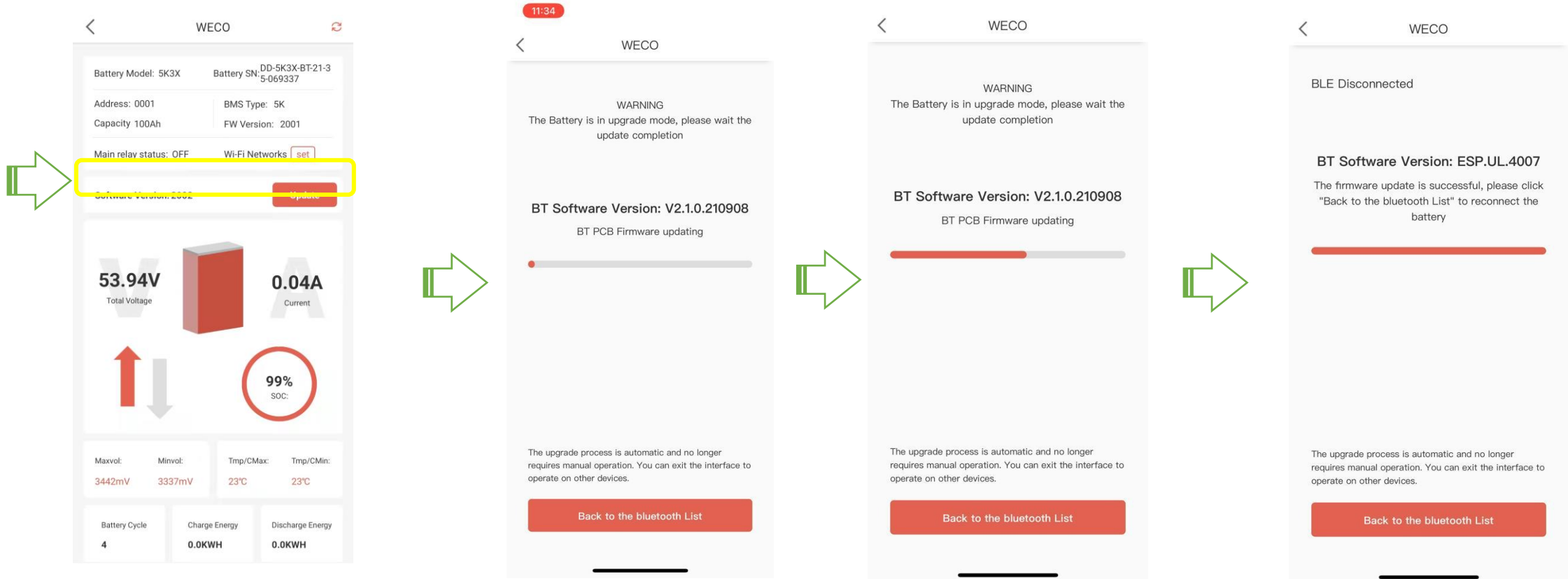


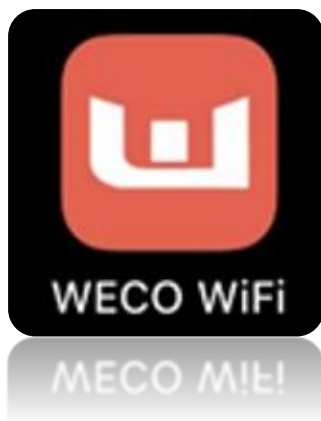
## STEP 8: BMS FW Upgrade

When the Battery WiFi/BT device will be successfully upgraded, the APP will show if there is a new FW

Press the UPDATE button on the APP to initiate the FW UPGRADE

A second PAGE will appear confirming the FW version available for upgrade, press UPDATE to load the new FW on the BMS  
Refresh the APP and go to the main page to see the live data.





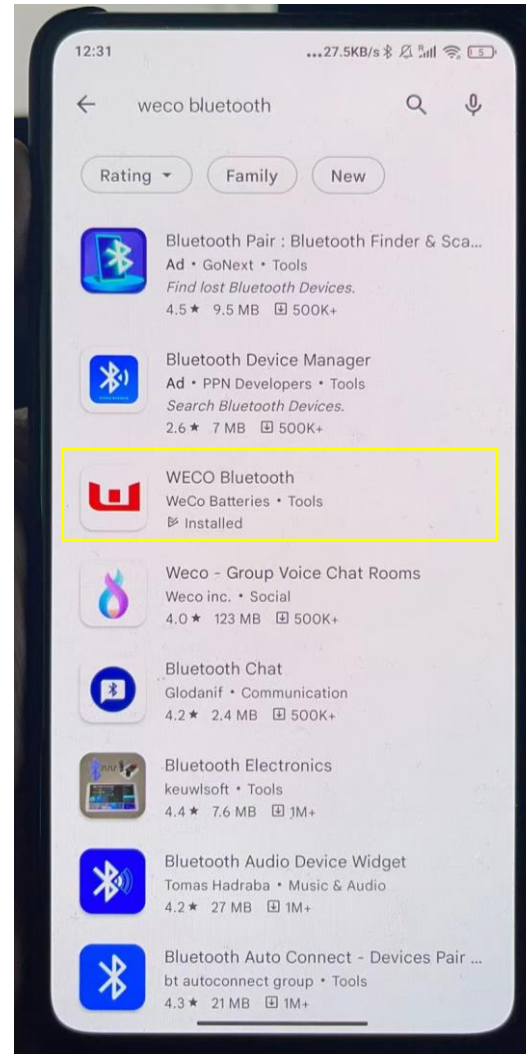
AVAILABLE ON GOOGLE PLAY  
**WECO WiFi**

AVAILABLE ON APPLE STORE  
**WECO WiFi**



## Download the APP from Google Play

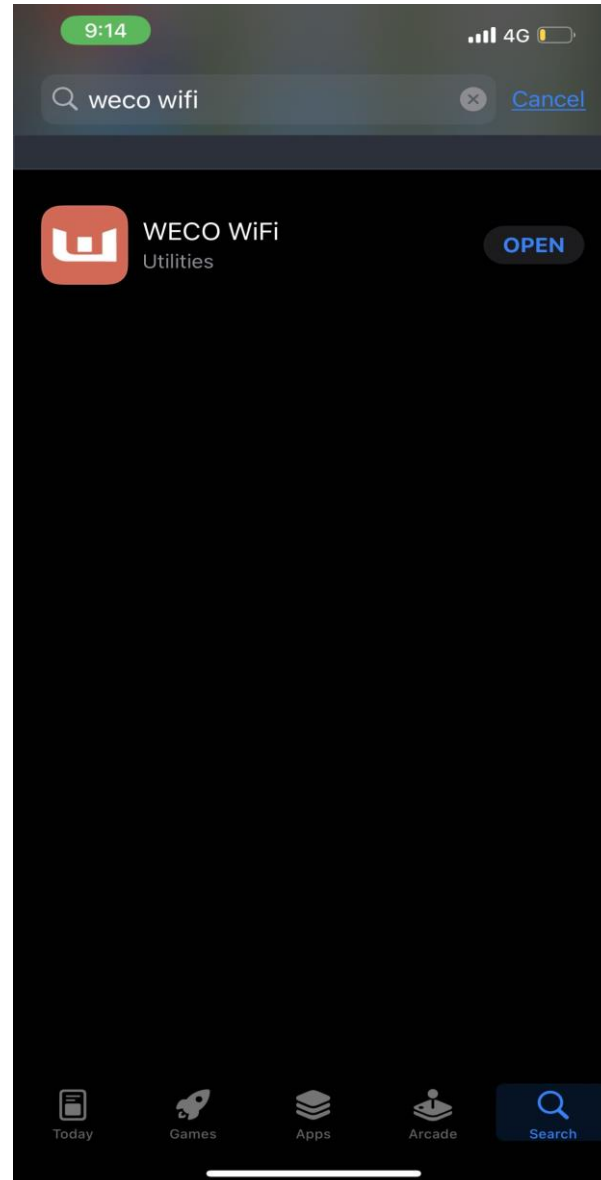
Or On Google Play: **WECO WIFI**







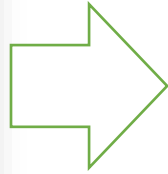
## Search for WECO WIFI APP, Download and Install on your iPhone





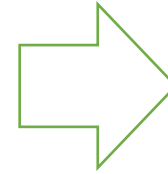
Register to create a new account

Mobile app login screen showing the WECCO logo, input fields for Email and Password, a FORGOT PASSWORD? link, a red LOG IN button, an OR separator, and a white REGISTER button. A hand icon is pointing at the REGISTER button.



Register a new Account

Mobile app registration screen showing the WECCO logo, a <GO BACK link, and input fields for Name, Surname, Email, Digit code received in your email, Password, and Confirm Password. A red REGISTER button is at the bottom. A red Get Code link is next to the Email field.



Get code, on your registered email

Mobile app registration screen showing the WECCO logo, a <GO BACK link, and input fields for Name, Surname, Digit code received in your email, Password, and Confirm Password. A red REGISTER button is at the bottom. The Email field is replaced by a field showing 'kira@gmail.com' with a 'Resend In 59s' link.



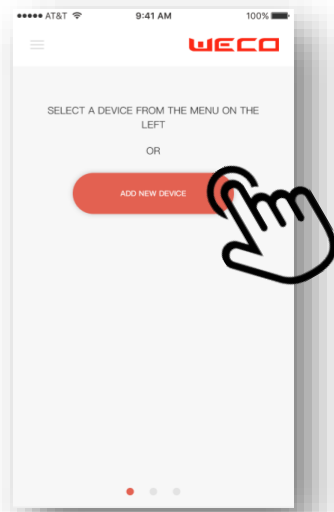
# Add your first Device

Scan the BAR CODE of the Master Battery if LV or the HV BOX if HV

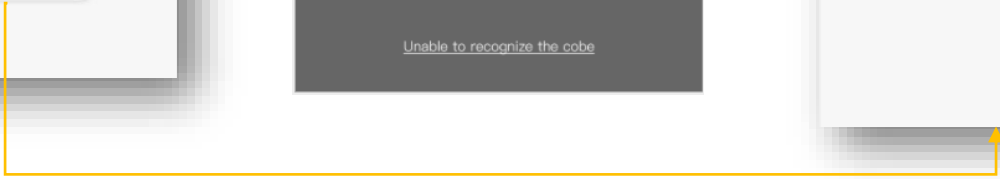
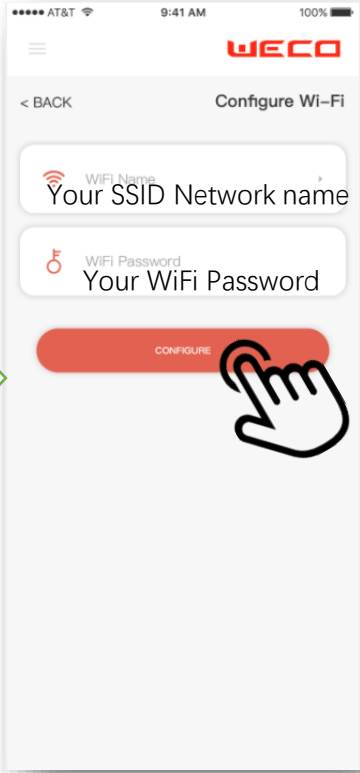
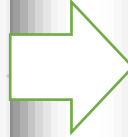
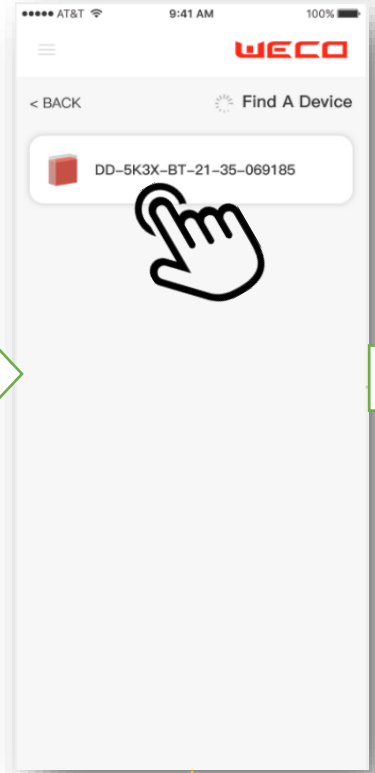
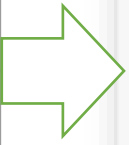
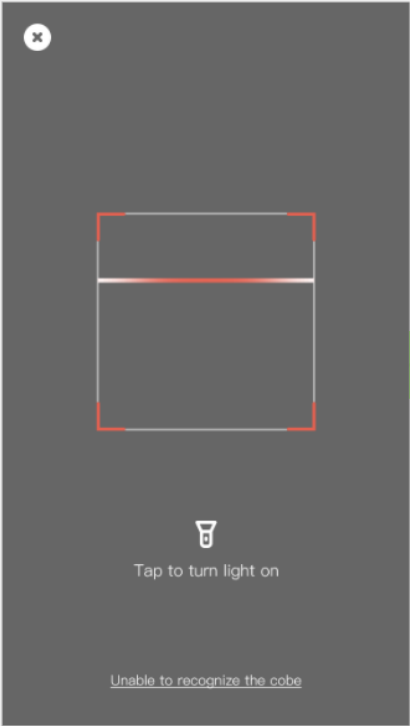
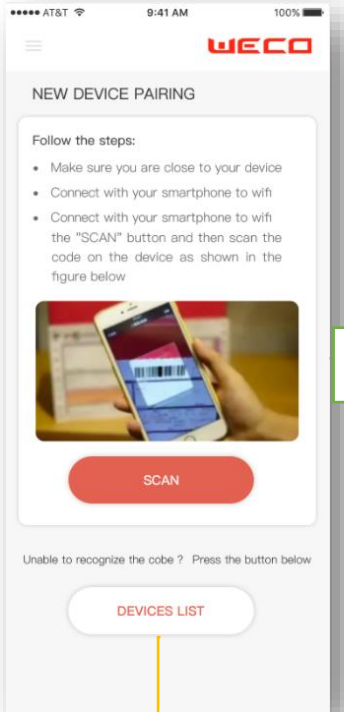
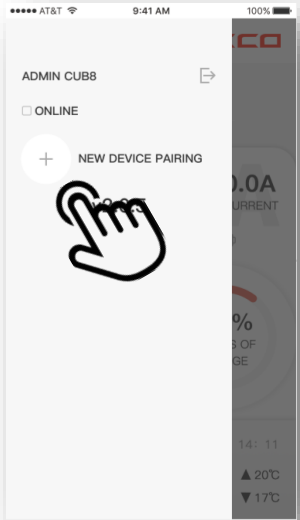
Give Permission to use the Camera + Light

Confirm the Device

Pair the WiFi Local Network



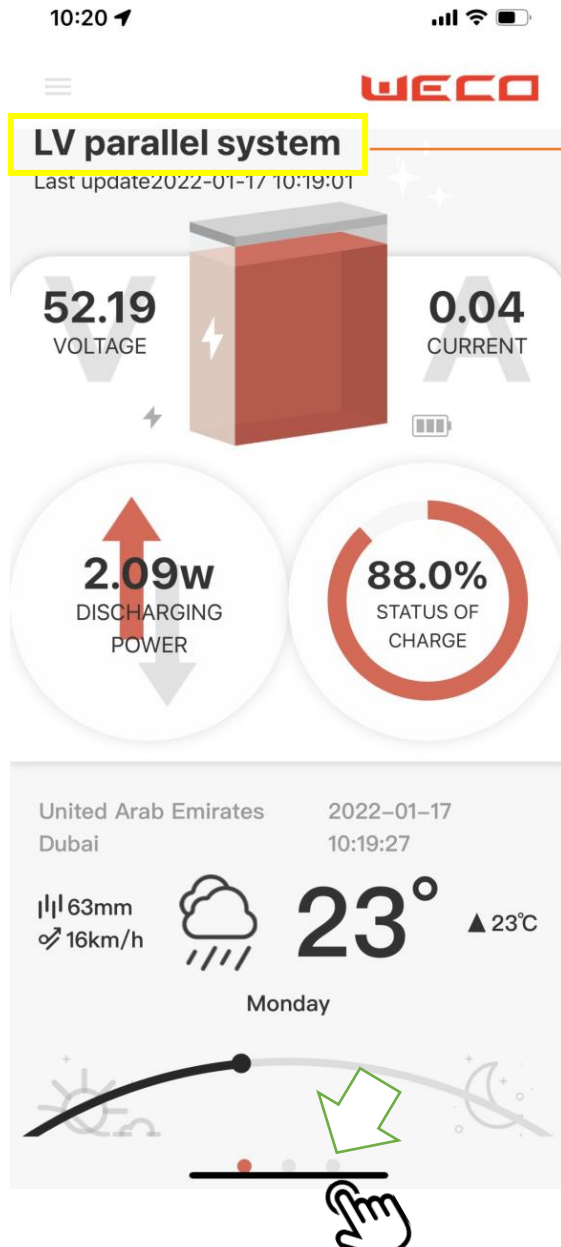
Or Add another Device





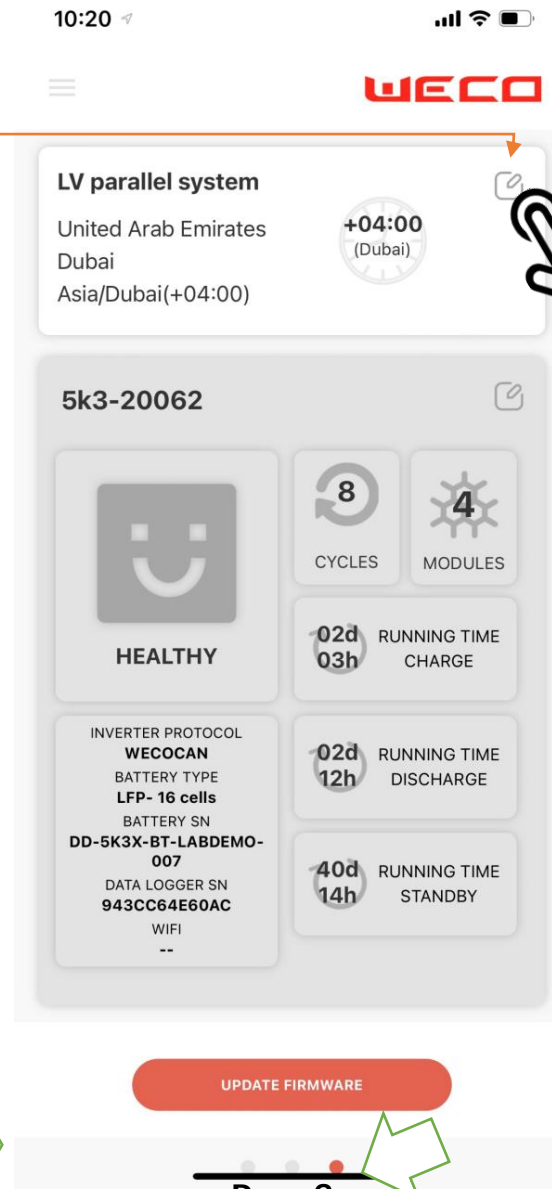
### To Assign a System Name

1. Scroll to page 3



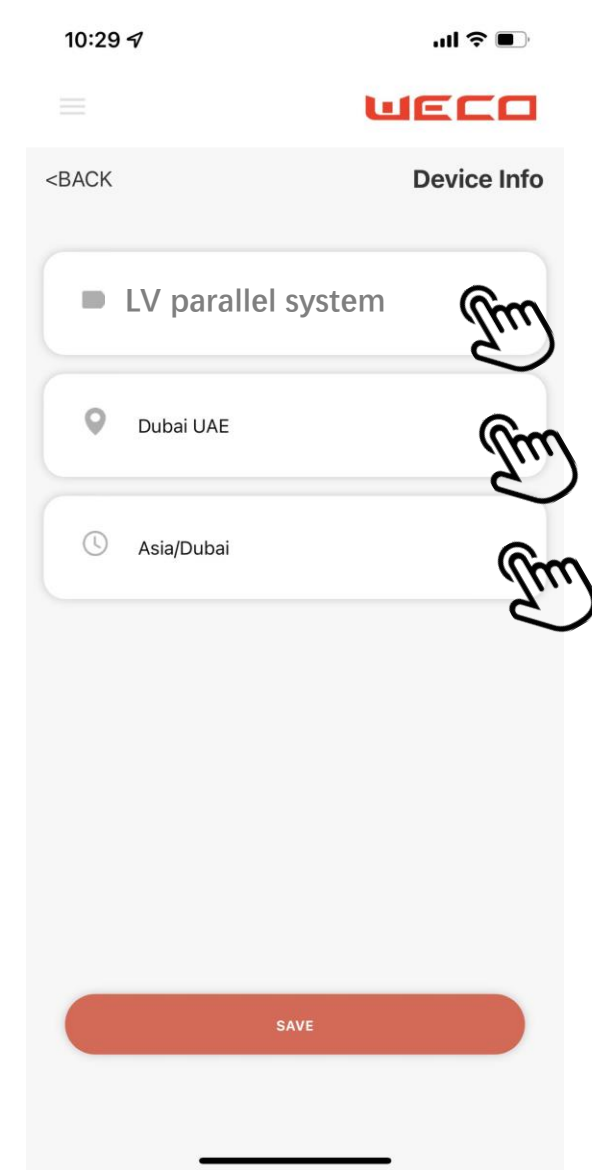
### To Assign a System Name

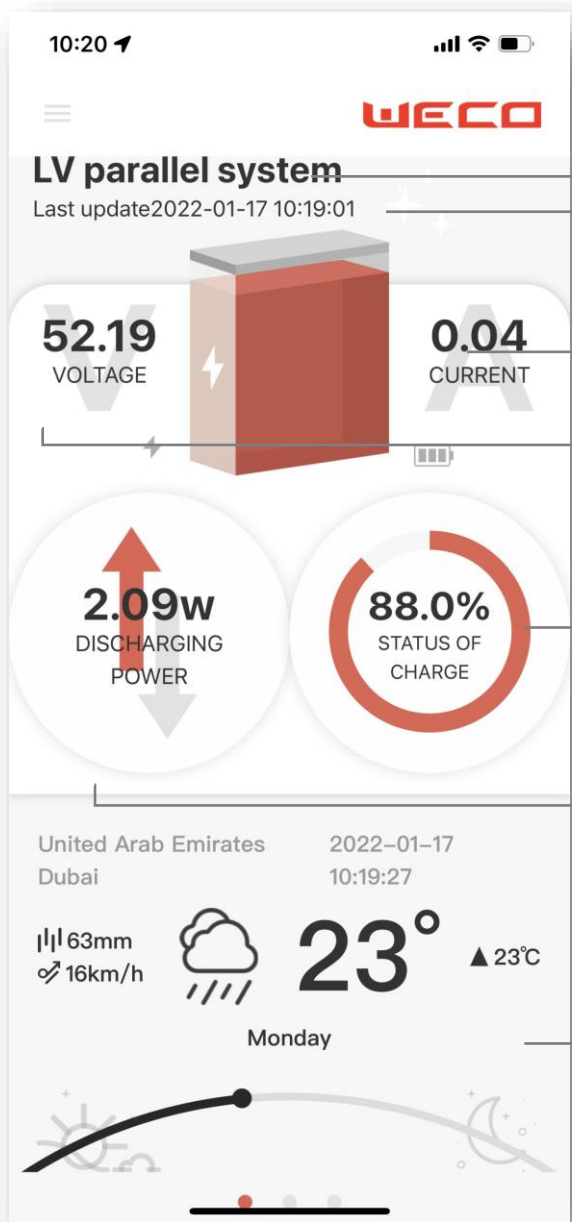
2. Tap on the Upper Setting Symbol



### To Assign a System Name

3. Tap on each box to modify





System name Assigned by the User \* see next pages

Last Update based on the last server connection available, when the system is offline for more than 30 minutes this line will blink showing the word: No Connection

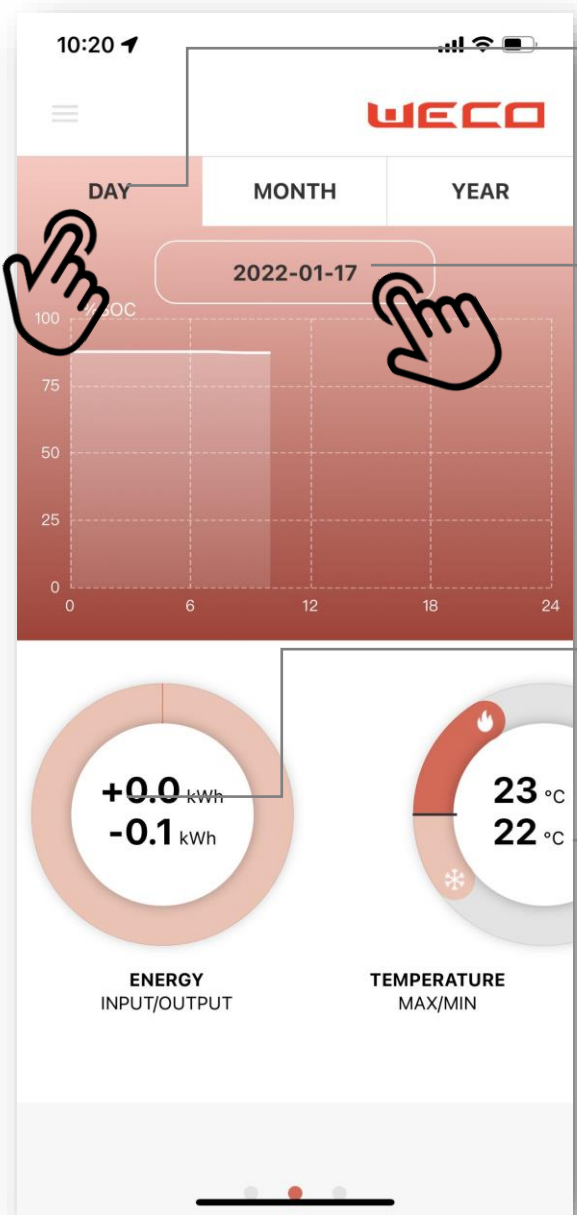
System Current, Charging or Discharging value in Ampere

System Voltage in Volts DC

Status of Charging expressed in percentage

Charging or Discharging Status ( When the Arrow is Upward means DISCHARGIN, when Downward means Charging, the App will also show the status as: Charging Power or Discharging Power

Weather Conditions based on the position of system ( location taken by the Mobile phone Position during the APP set up)



Daily SoC graph, Monthly and Yearly. Tap on the Upperpart of the display to see the result

Calendar selection for the specific day of the year, the customer can select a day to see the SOC curve and the energy in / out details

Energy IN / Energy OUT for the specific day/month/year selected by the user

MAX and MIN Temperature recorded by the BMS for the Battery for the period selected by the user



System Name, Location and Time Zone ( can be set following the next page instructions)

Battery Type and FW version currently installed on the BMS

System General Status> HEALTHY or ERROR

Numbers of Modules that composing the Cluster ( either in LV or HV configuration)

Number of Cycles performed by the Battery or by the Cluster

Time recorded by the BMS while the battery was in Charging Status

Time recorded by the BMS while the battery was in Discharging Status

Time recorded by the BMS while the battery was in Stand By Mode ( no charge no discharge )

When this Button is Visible means that for the specific battery there is FW upgrade available. Press to Update



HEALTHY

8 CYCLES 4 MODULES

02d 03h RUNNING TIME CHARGE

02d 12h RUNNING TIME DISCHARGE

40d 14h RUNNING TIME STANDBY

INVERTER PROTOCOL  
**WECOCAN**

BATTERY TYPE  
**LFP- 16 cells**

BATTERY SN  
**DD-5K3X-BT-LABDEMO-007**

DATA LOGGER SN  
**943CC64E60AC**

WIFI  
--

UPDATE FIRMWARE

LAST VALUE

EVENTS

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

SLAVE 01

Protocol Currently set on the battery BMS

Type of battery LFP 16 cells ( or LFP 15 Cells mainly for Telecom)

Battery Serial Number

Datalogger MAC address

WiFi network Name ( if available by the router provider)

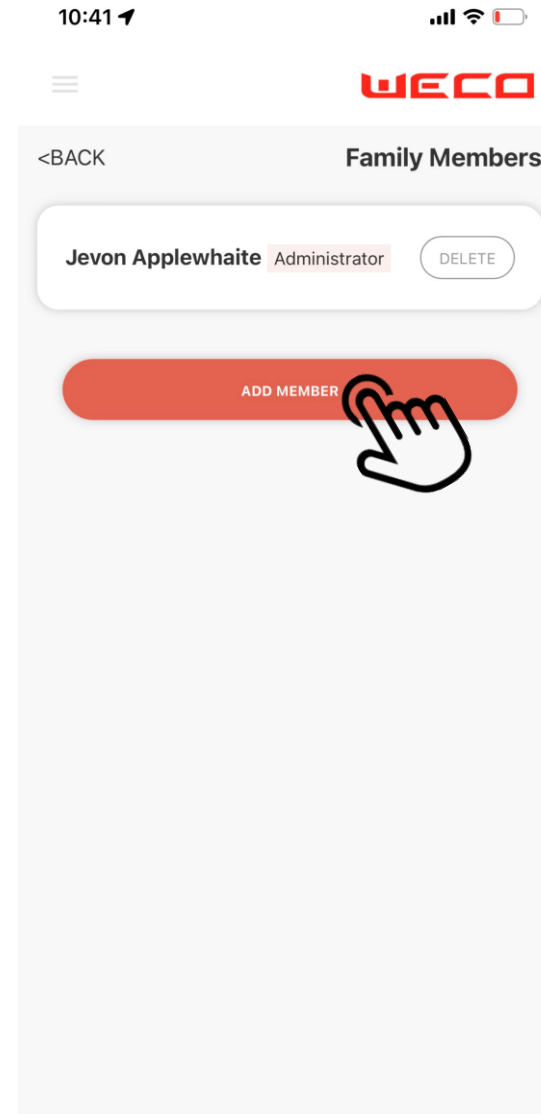
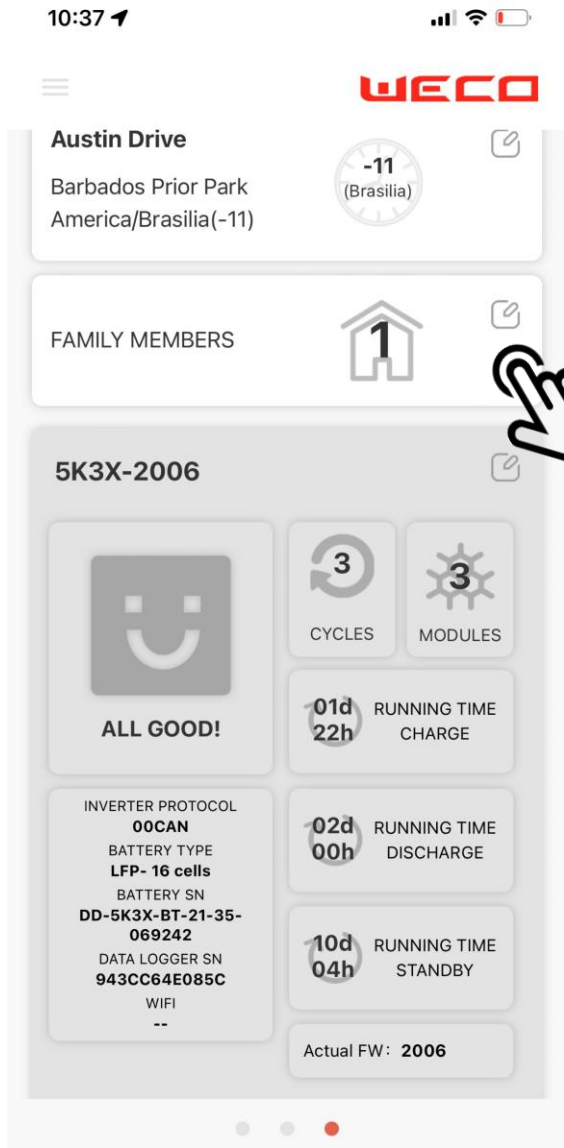
Last Detailed data available for each module of the cluster

Events of the system, Warnings, Errors, Update process etc.

General Overview of the System SoC

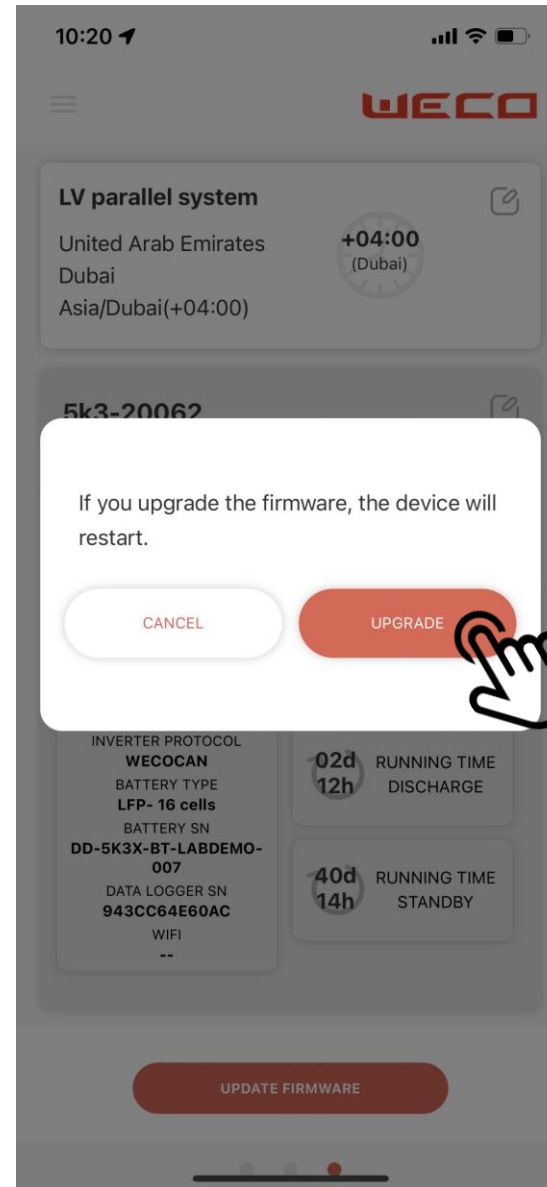
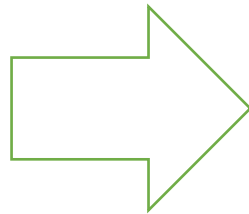
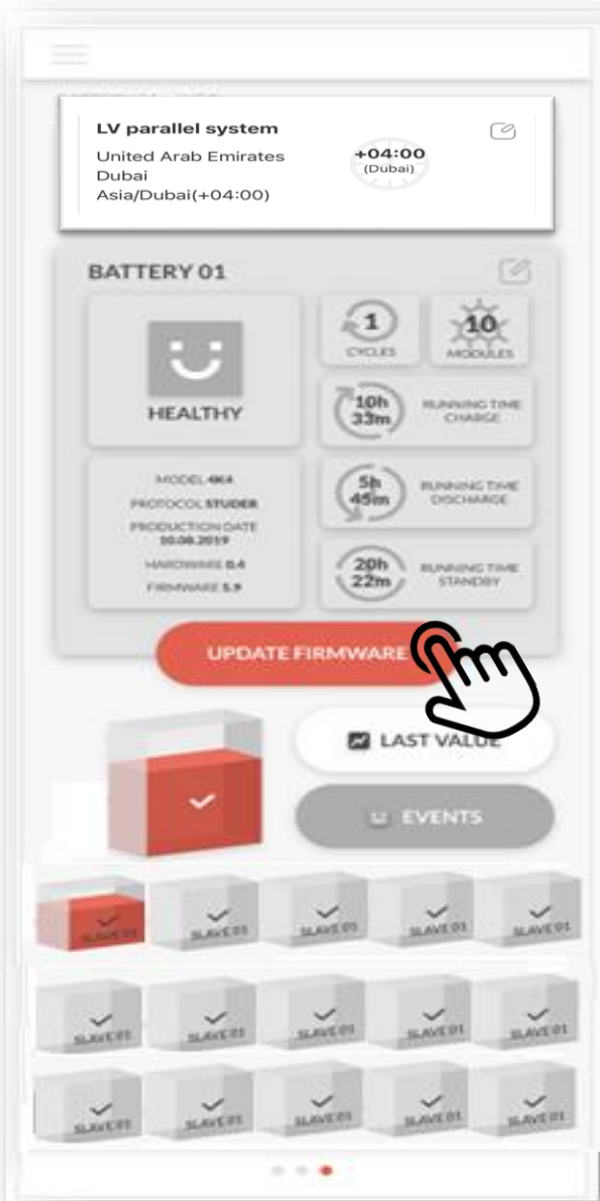
Modules currently online ( RED) , the BMS records the numbers of module at the first installation and then will determine how many of them are online.  
If one or more module are Offline the operator must inspect the system to clear the error







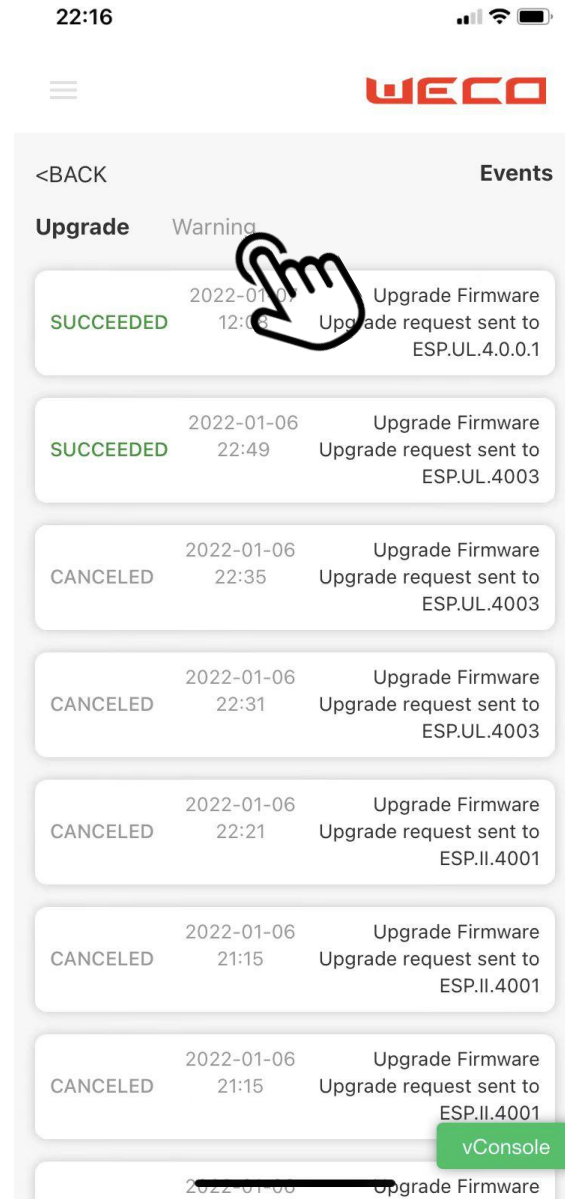
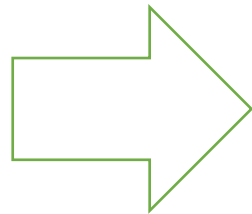
# FIRMWARE UPDATE



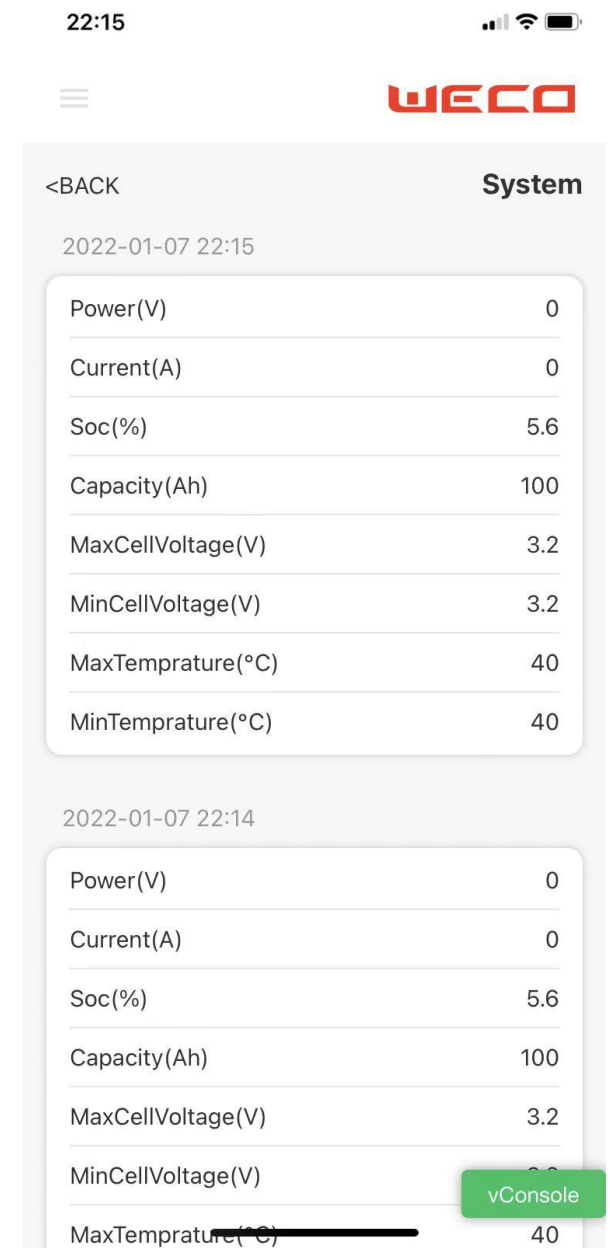
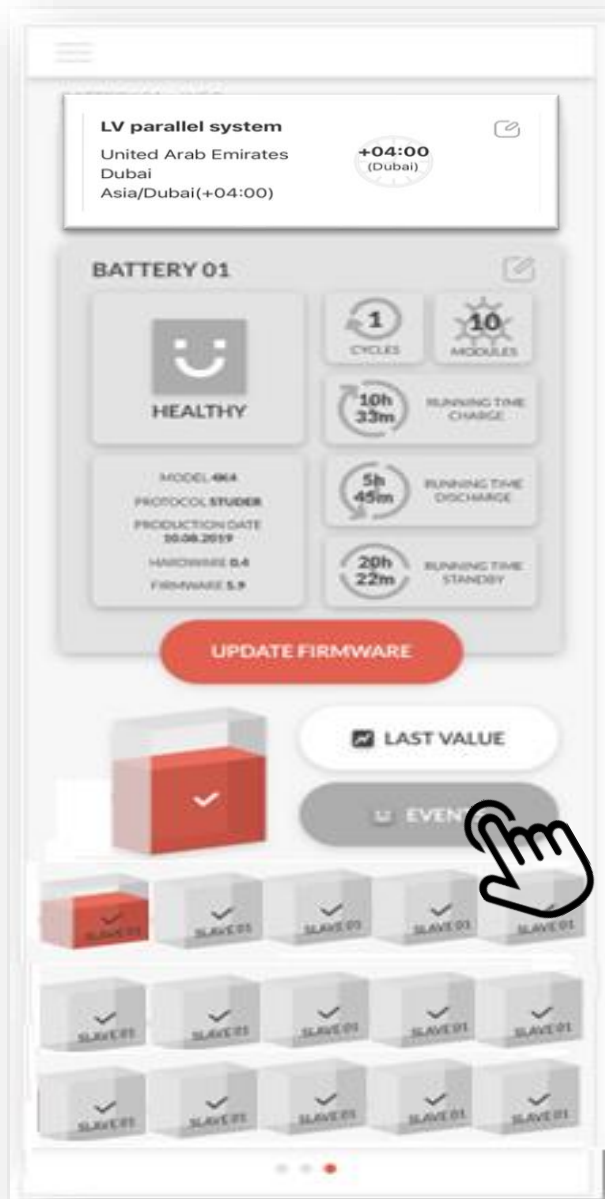
**WARNING**  
During the FW upgrade it is required to Shut down the inverter before pressing UPDATE



# EVENTS INFO



# HV last value



10:38



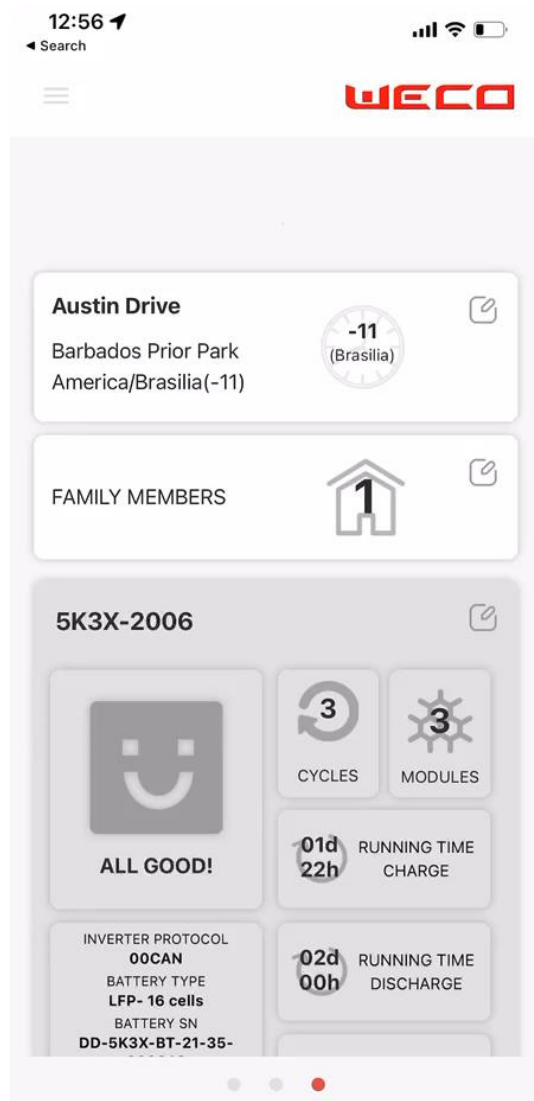
<BACK

Events

**Upgrade** Warning

- |          |                     |  |
|----------|---------------------|--|
| FAILED   | 2022-02-04<br>17:59 | Upgrade Firmware<br>Upgrade request sent to<br>ESP.UL.4007 |
| FAILED   | 2022-02-04<br>17:04 | Upgrade Firmware<br>Upgrade request sent to<br>ESP.UL.4007 |
| CANCELED | 2022-02-04<br>16:34 | Upgrade Firmware<br>Upgrade request sent to<br>ESP.UL.4007 |
| CANCELED | 2022-02-04<br>16:21 | Upgrade Firmware<br>Upgrade request sent to<br>BMS.2007    |
| CANCELED | 2022-02-04<br>16:20 | Upgrade Firmware<br>Upgrade request sent to<br>ESP.UL.2007 |
| FAILED   | 2022-02-04<br>16:06 | Upgrade Firmware<br>Upgrade request sent to<br>ESP.UL.4007 |
| CANCELED | 2022-02-04<br>15:35 | Upgrade Firmware<br>Upgrade request sent to<br>ESP.UL.2007 |

# APP FIRMWARE UPDATE VIDEO



**END OF THE DOCUMENT**