

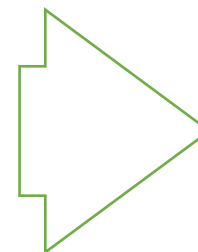
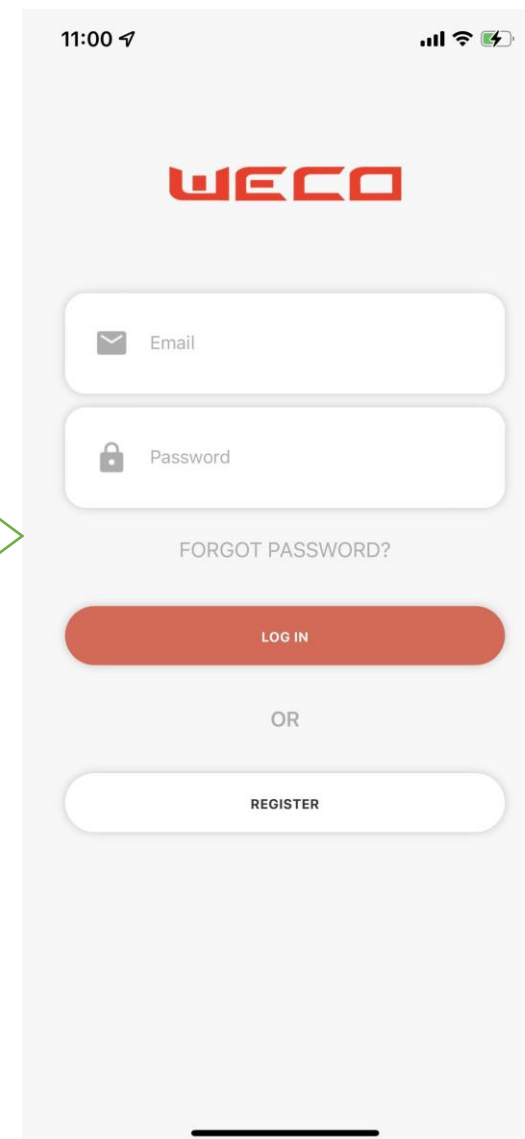
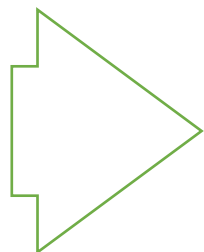
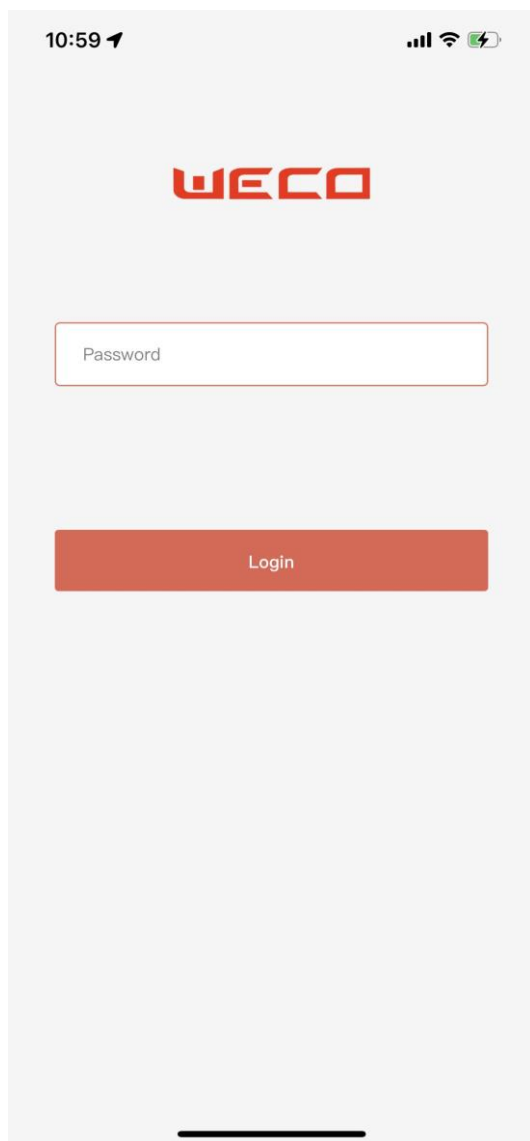
5K3XP

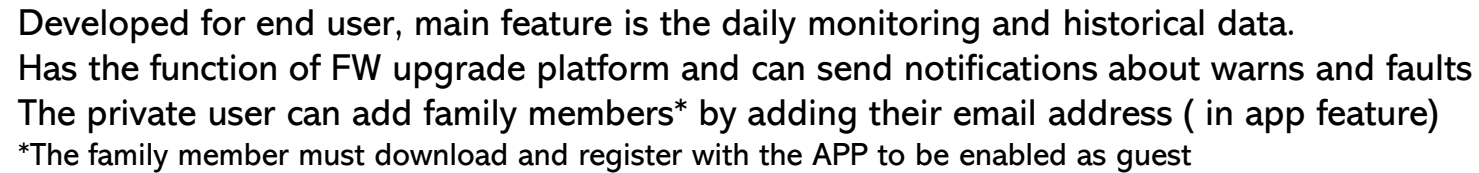
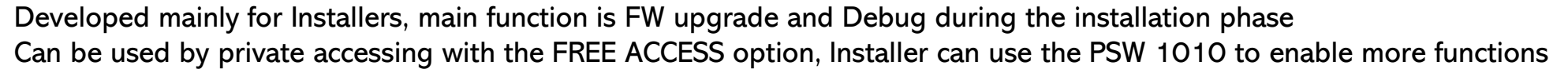




























# LOCAL and WiFi APP MONITORING APP FOR ANDROID AND APPLE






android 

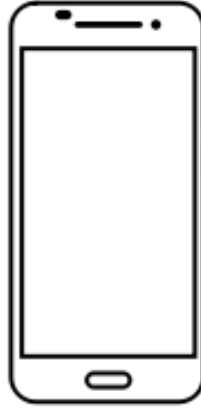






	On Line registration	Live Data Overview	Live Data OFFLINE	Historical Data	Firmware Upgrade	Multiple Module Monitoring	Multiple User Access	Mobile Notifications	Multi members Account	Expert Function for BQ/SOC/SHUNT Calibration
 <b>Bluetooth®</b> android  										
 <b>WiFi™</b> android  										

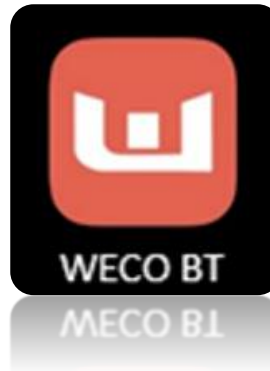
<div>APP TYPE</div> <div>ROLES</div>	<div>  <b>Bluetooth®</b>  APP NAME WECO LOCAL  Only for Local direct Connections </div>	<div>    APP NAME WECO WiFi  Device Pairing with Local Wi-Fi + Mobile Phone with Data Access </div>
	<p>No need to register as user  No Need Password  Need Android or IOS Mobile  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**



XP MODEL HAS INBUILT BT/WIFI DEVICE

## BLUETOOTH APP / WiFi Board

XP Models are equipped with Inbuilt WiFi and Bluetooth Device linked with the BMS  
The Module is located on the Right side of battery and it is automatically powered by the BMS







FOR NON XP/UL MODELS (2018\_2022/March)

Turn on the battery.

Turn on the switch of the battery.

Press the wake up button for 2- 3 seconds and wait for the green Led light

If your Battery is not an XP model you need to use Connect the External WiFi to the port RJ 45 –Operator Port- device using the provided cable ( External WiFi Model Version 0.2)



1 Download the APP



android 



 iOS

2 Turn On the battery by pressing the RUN BUTTON 4 seconds



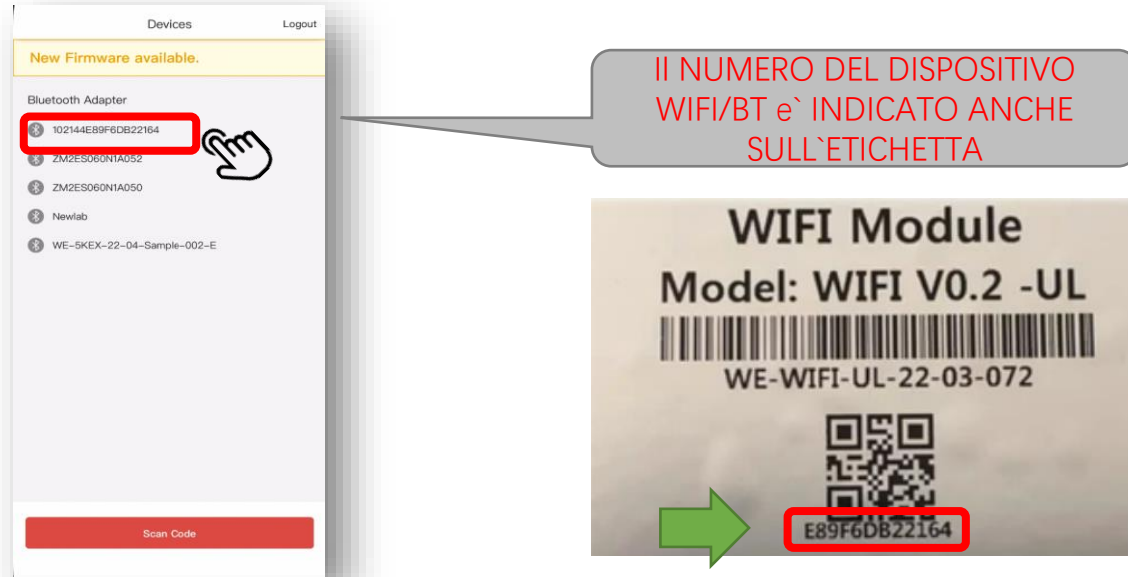
3 Connect the BT/ WiFi Device on the WiFi / RS232 / Operator Port of the Battery



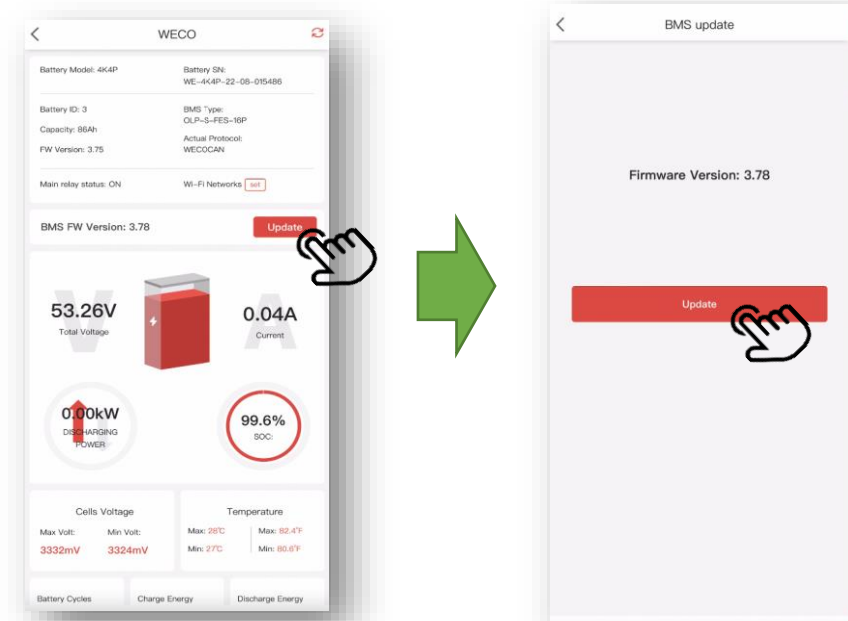
4 Access the APP by using the password 1010  
Then press **LOGIN**  
Select **LOW VOLTAGE** to access the Overview page



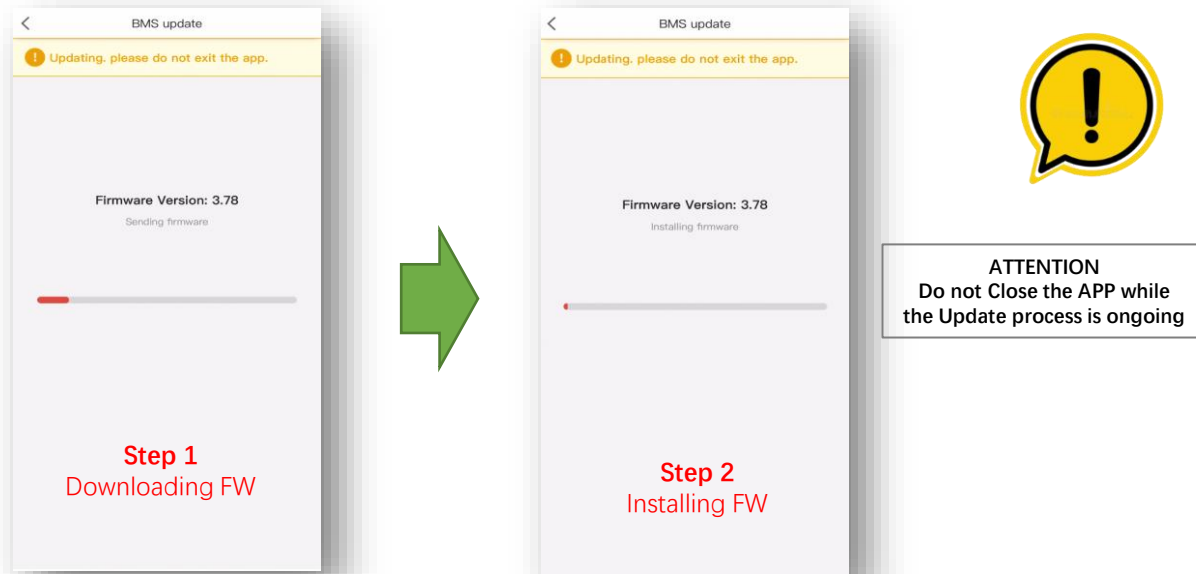
5 Select or Scan the Device from the list



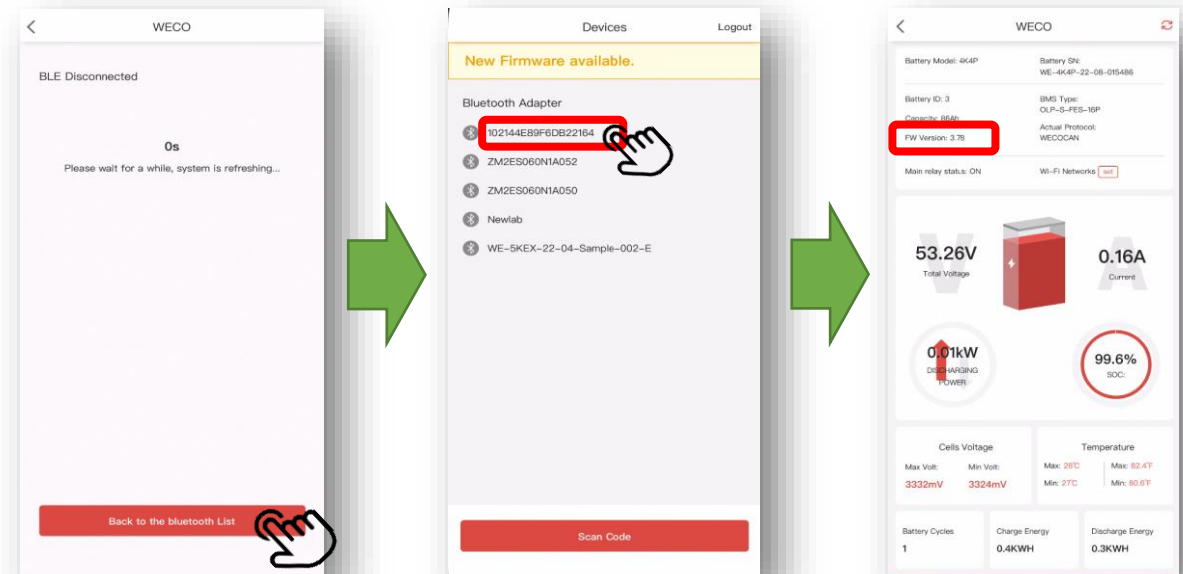
6 If the UPDATE button is visible means there is a NEW FIRMWARE AVAILABLE



7 If Yes press UPDATE and the process will Start



8 After the UPDATE process the NEW FIRMWARE will be visible on the APP



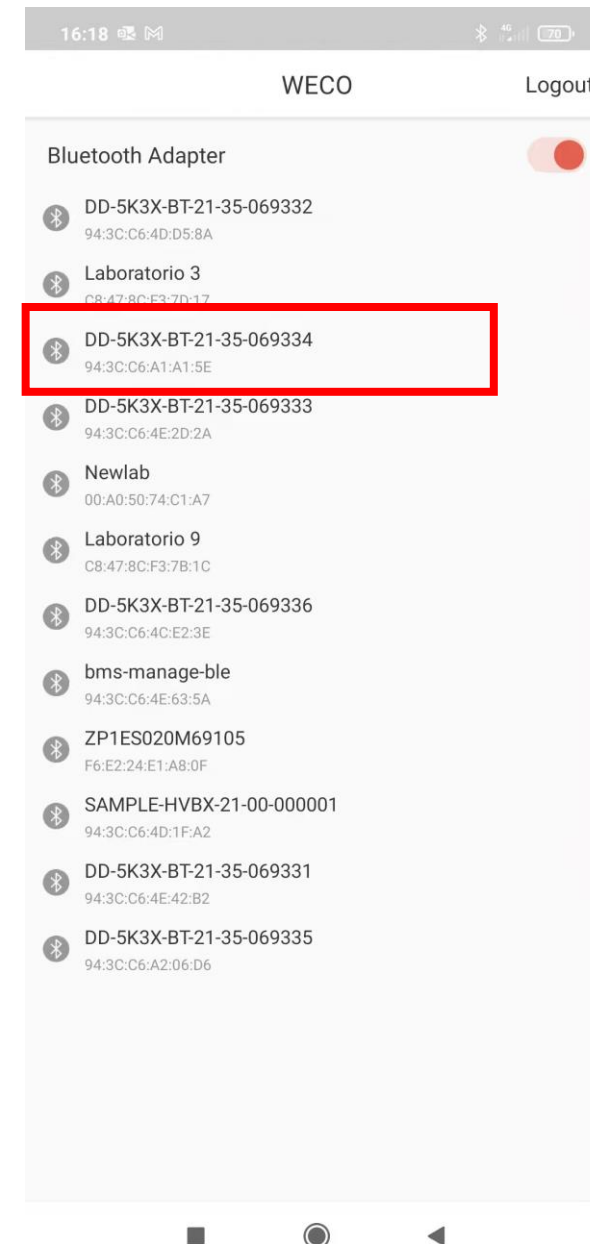


## Select the Battery you want to connect with

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

### Warning.

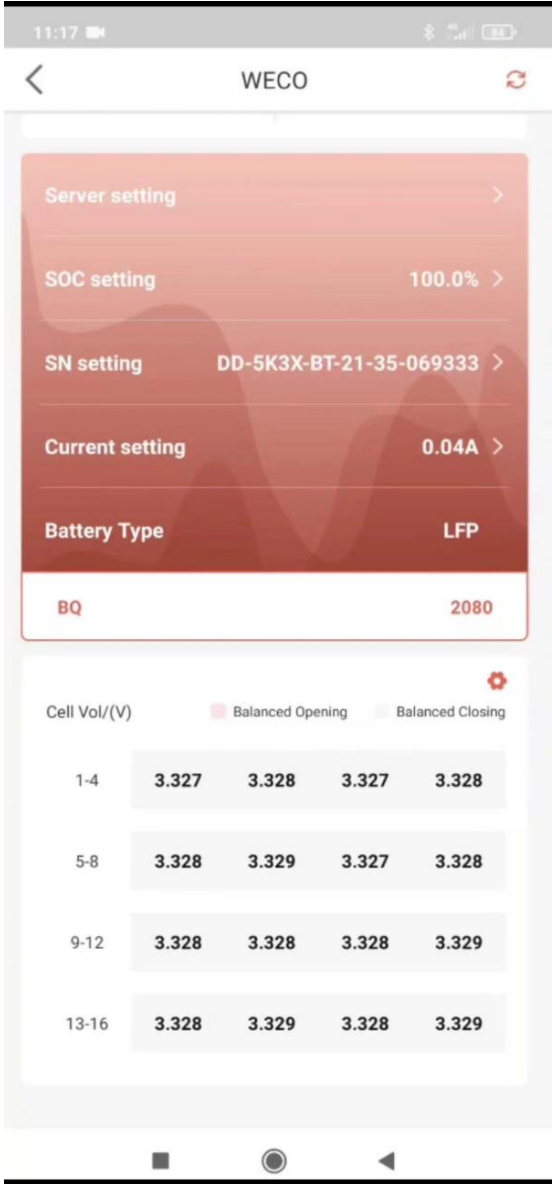
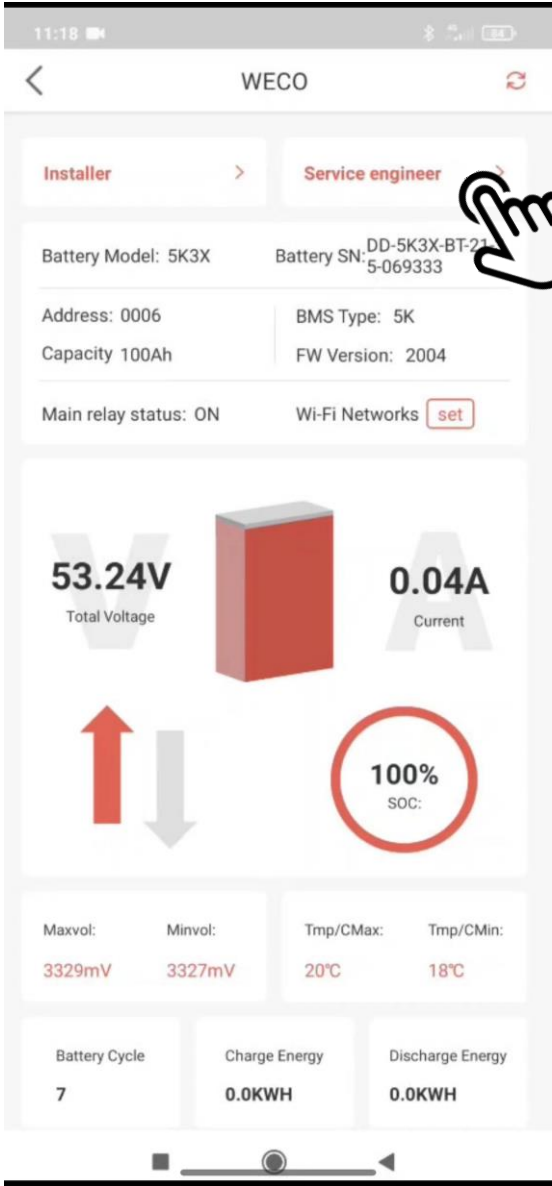
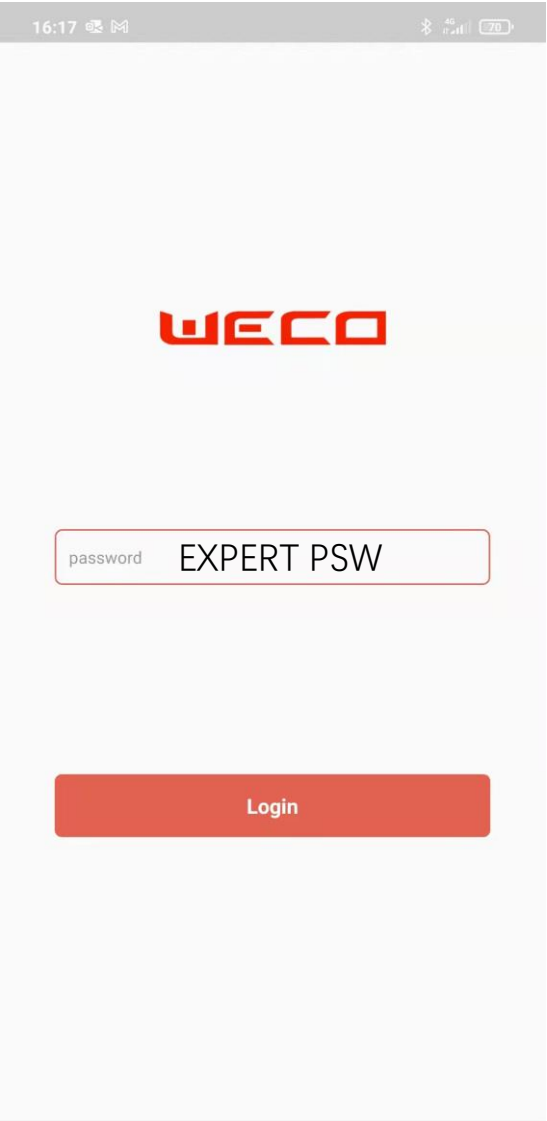
The Bluetooth APP works only with one battery, multiple connections are not supported



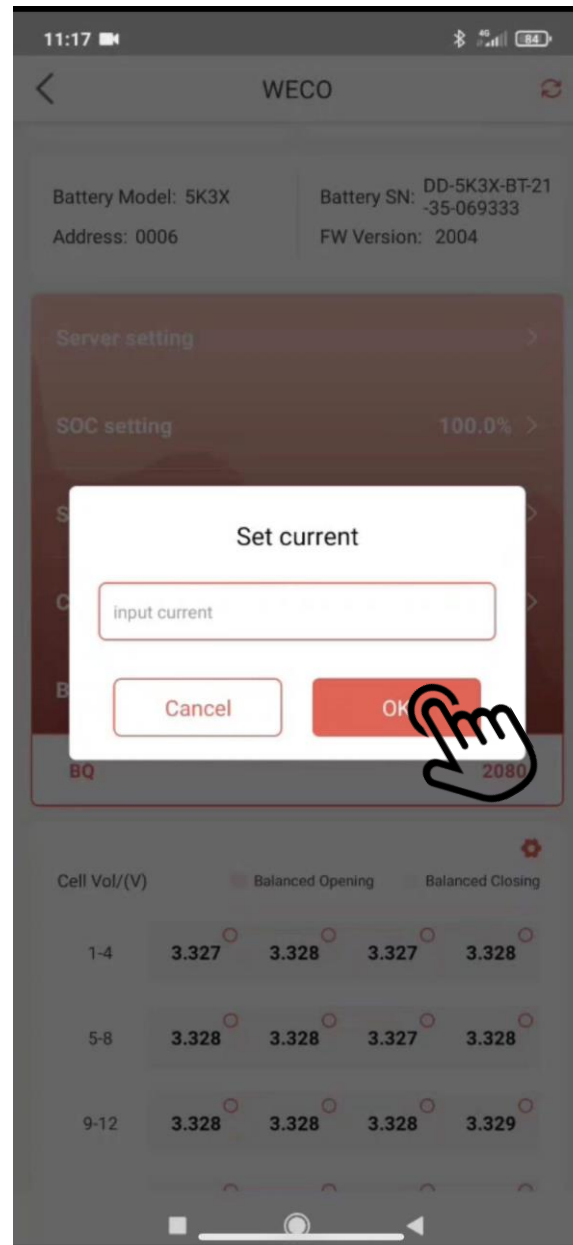
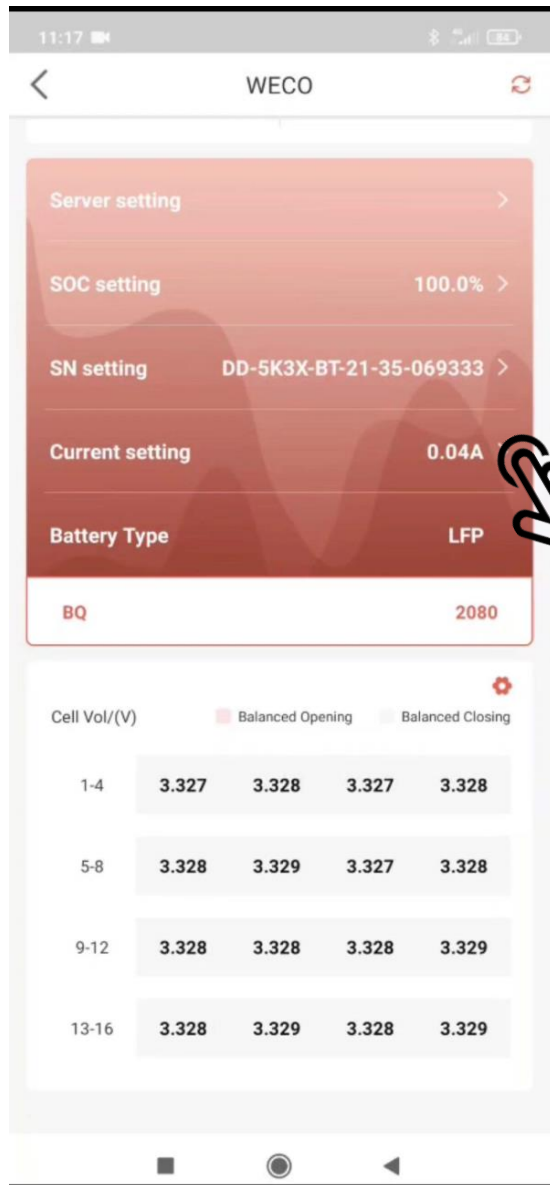
## **SETTING PAGES - EXPERT ACCESS**

Expert Operator Bluetooth settings on the single Module

Access with Expert Password



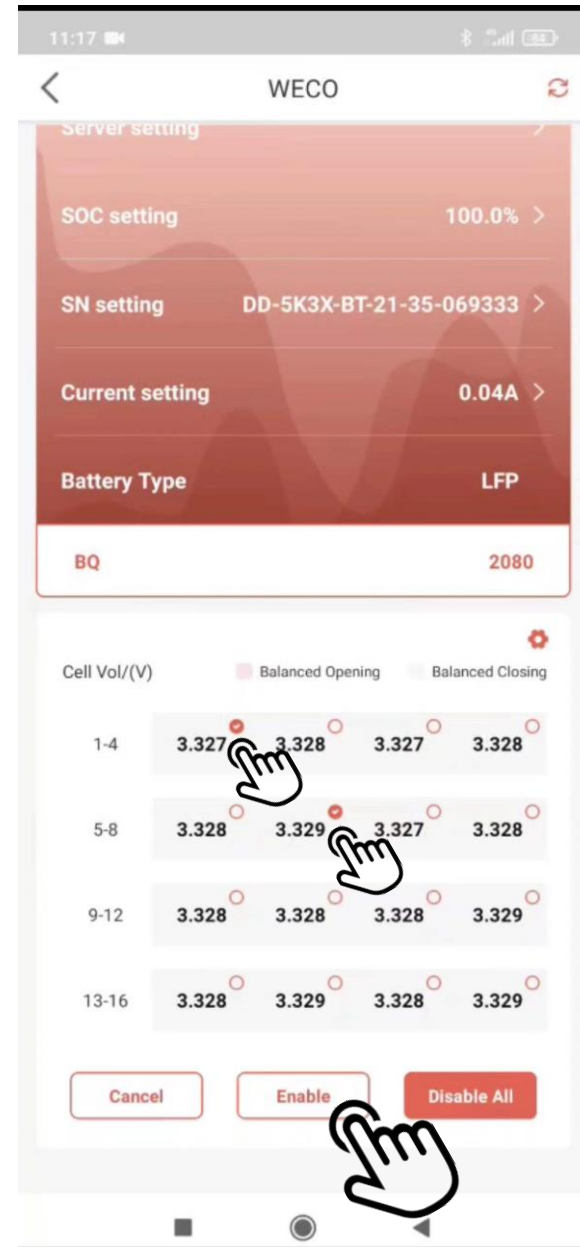
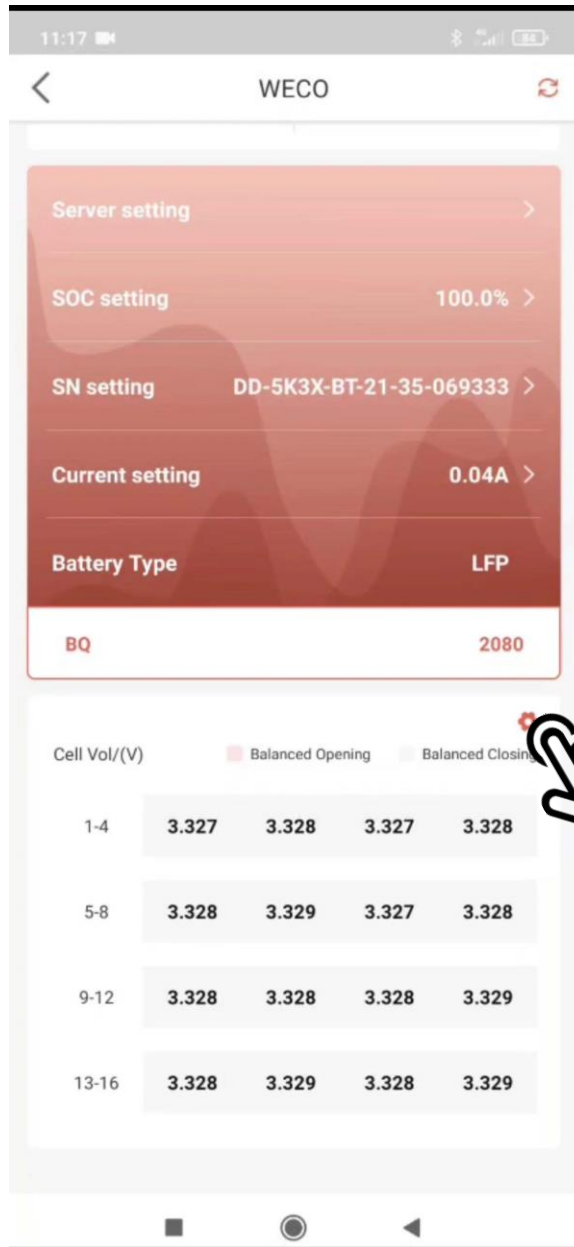




After the replacement of a BMS might be required to reset the Shunt by making a Current Calibration of the BMS

This Operation can be done by using the Set Current Function and applying a fixed load and Set the Discharging Current accordingly, then press OK.

Set the Current of your known load and press OK



## System Balancing ( Fast Function)

During an annual inspection might be required to perform a manual cell balancing if the environmental conditions of the site can affect the BMS operational Capability

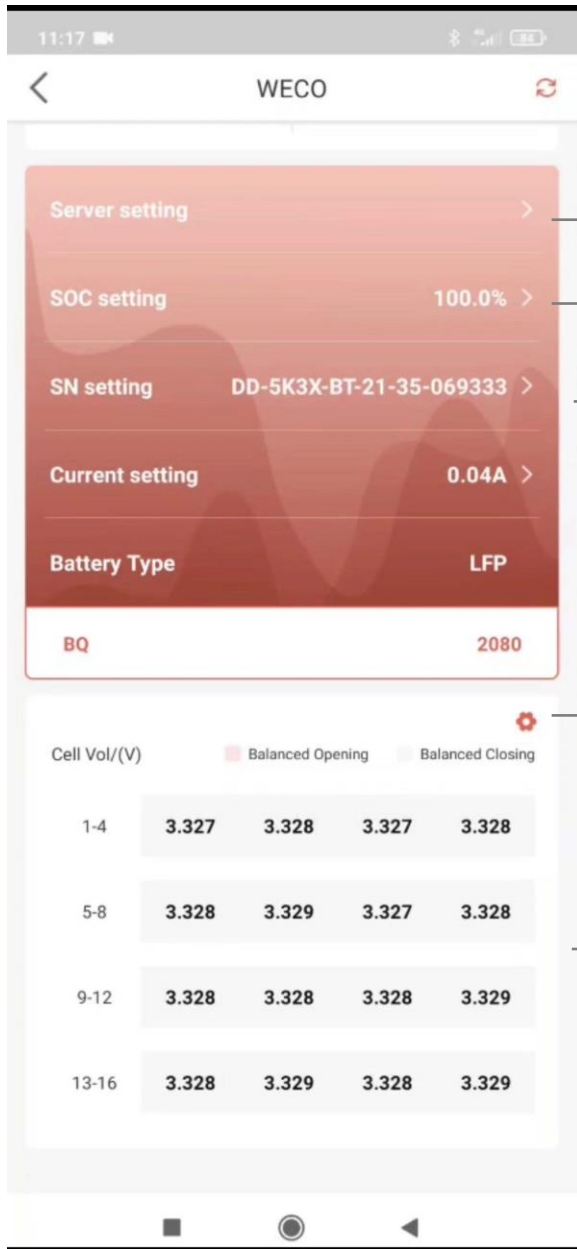
The Expert operator can select specific cells to be balanced.  
After the Selection the equalizer will operate automatically to balance the cells ( Actively or passively)  
The selective Balancing will operate automatically after at least 2 cells has been selected.

Press Enable ALL to initiate the 24 Balancing on all the 16 cells ( Bulk)

Press Disable All to Stop the Bulk balancing process.

The Equalizer can only work a max of 24h per session  
Each session must be interrupted for 4h





Manual Server Setting for Expert Operations and Device Pairing with the Cloud Server

Manual Setting of the Battery SOC for testing and Debug procedures

Serial Number Set up and Module Pairing with the others Parts Number only for XP models

Current Settings for Shunt Calibration

Cell Selection button, manual / forced Equalization process ( Expert Only)

Single Cell Value of the Module



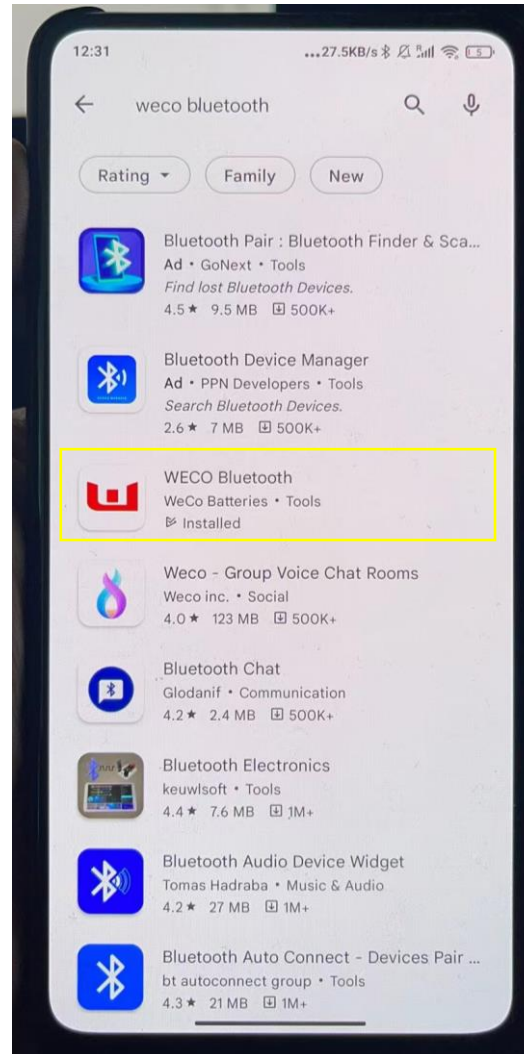
AVAILABLE ON GOOGLE PLAY  
**WECO WIFI**

AVAILABLE ON APPLE STORE  
**WECO WIFI**



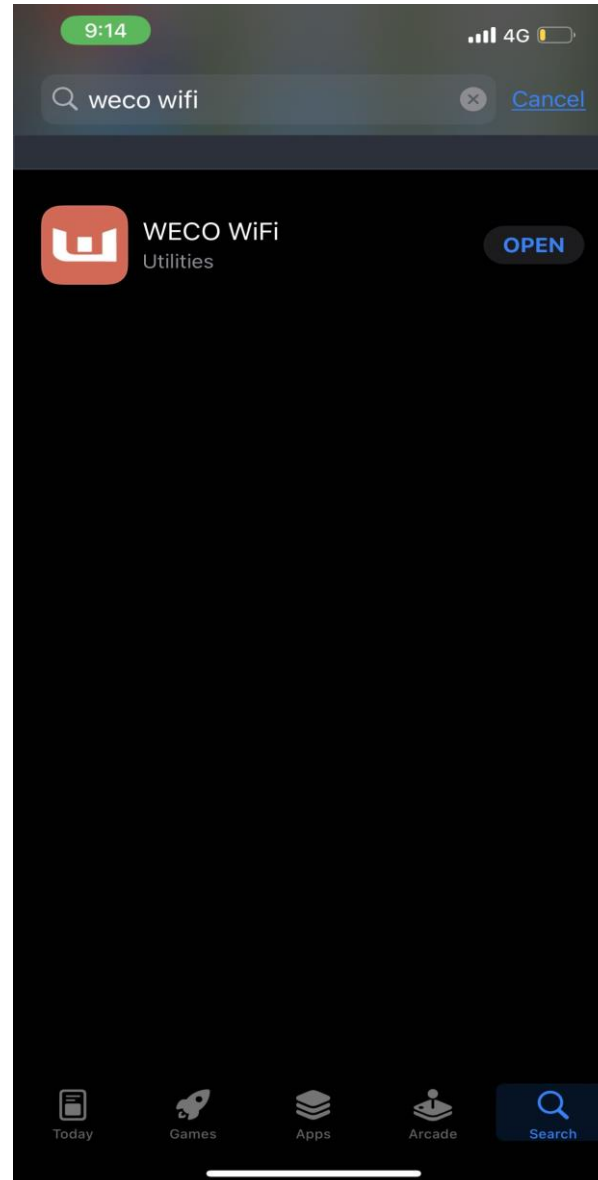
Download the APP from Google Play

Or On Google Play: **WECO WIFI**





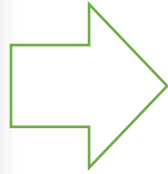
## Search for WECO WIFI APP, Download and Install on your iPhone





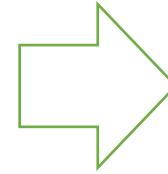
Register to create a new account

Mobile app login screen showing the WECO logo, email and password input fields, a 'FORGOT PASSWORD?' link, a red 'LOG IN' button, an 'OR' separator, and a 'REGISTER' button. A hand icon is pointing at the 'REGISTER' button.



Register a new Account

Mobile app registration screen showing the WECO 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.



Get code, on your registered email

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



## Add your first Device

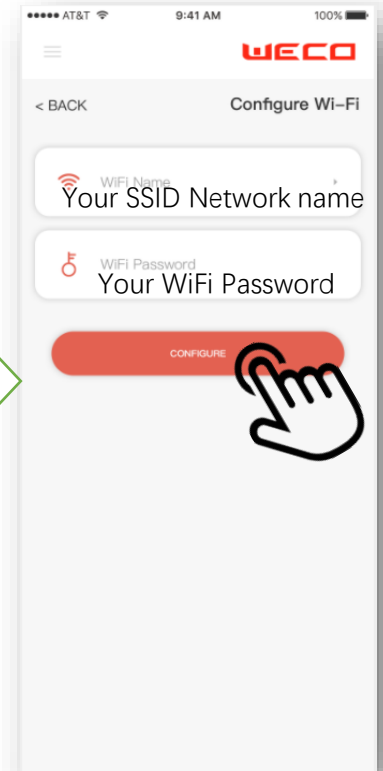
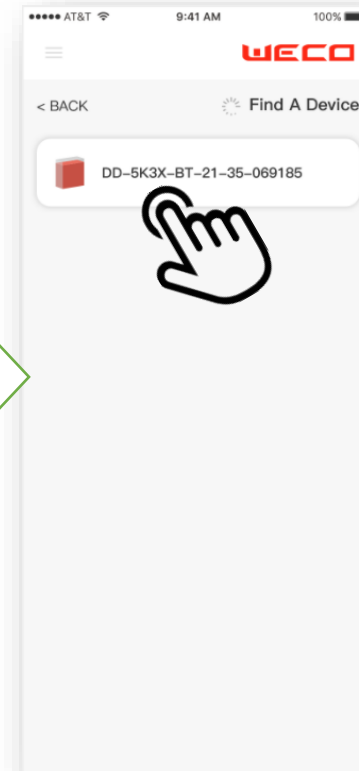
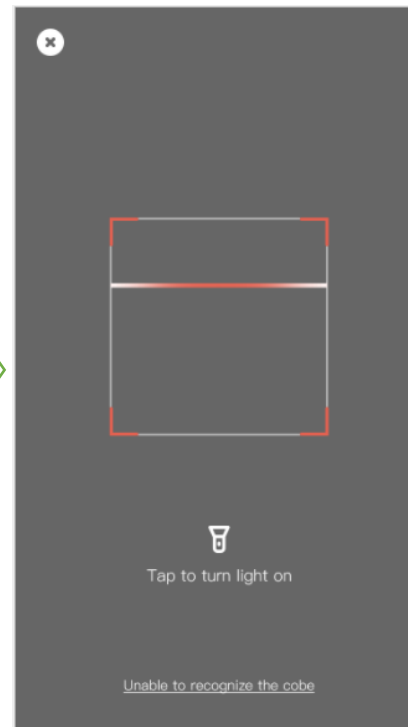
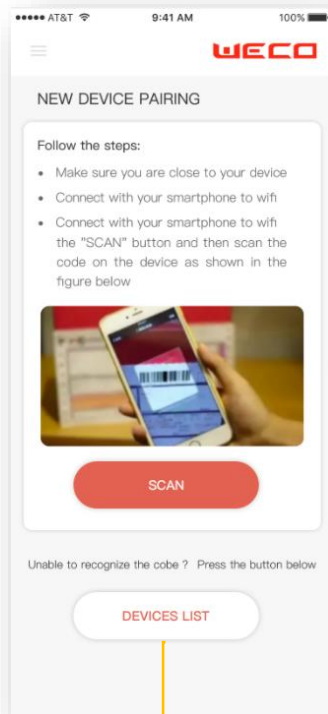
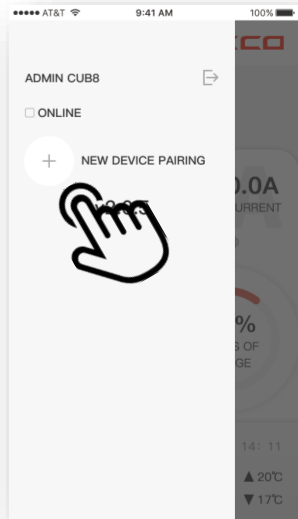
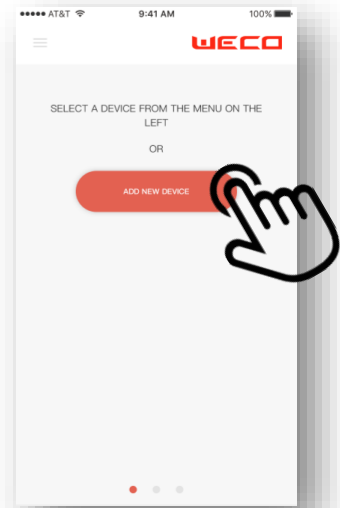
Scan the BAR CODE of the Master Battery if LV or the HV BOX if HV

Give Permission to use the Camera + Light

Confirm the Device

Pair the WiFi Local Network

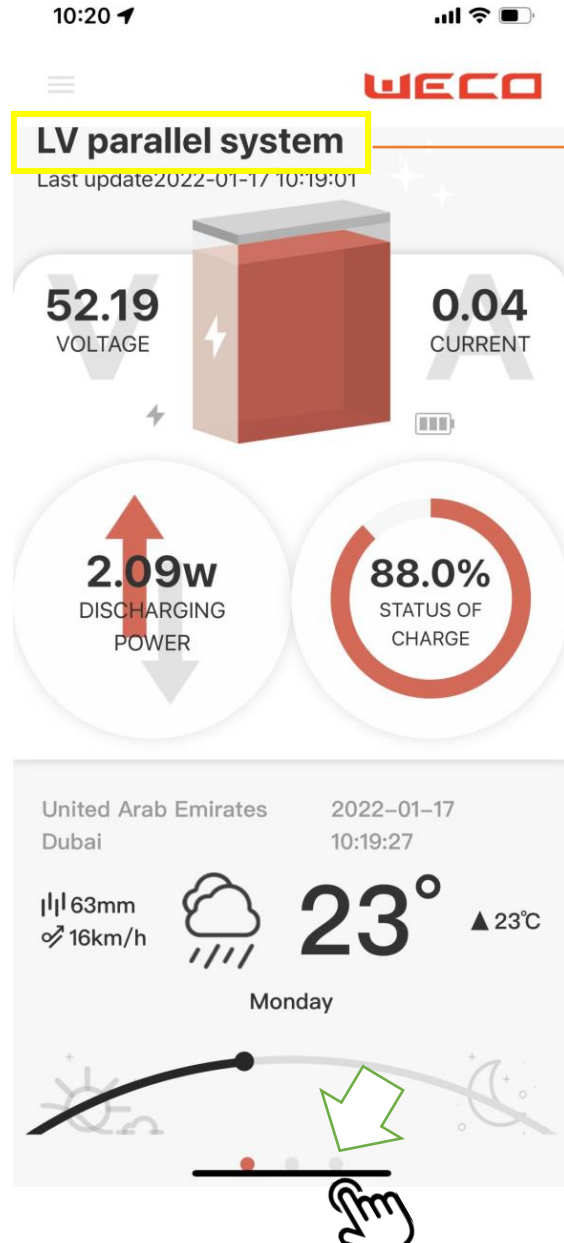
Or Add another Device





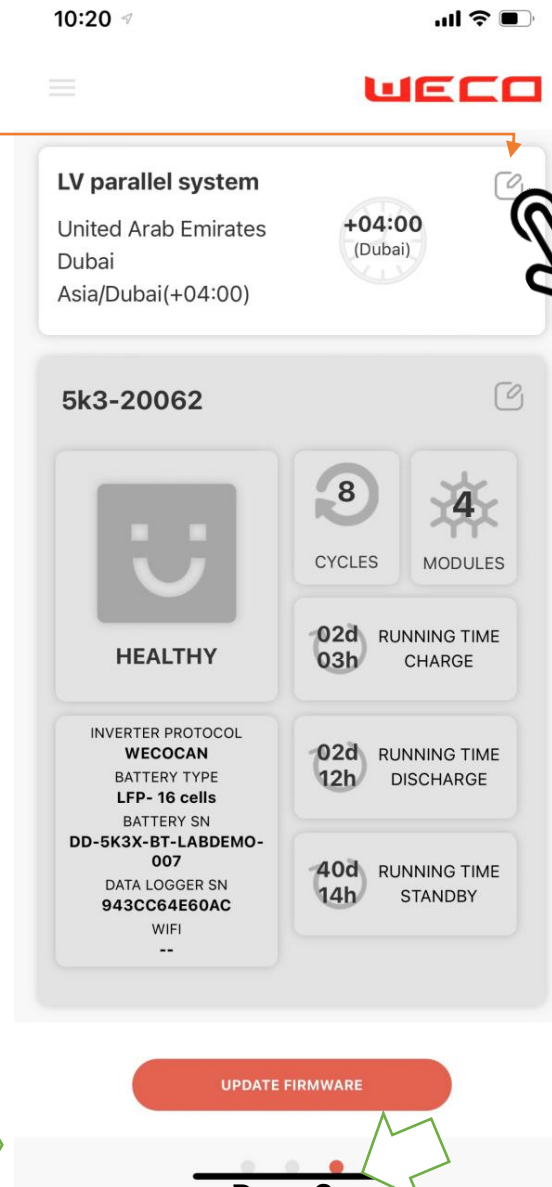
## To Assign a System Name

1. Scroll to page 3



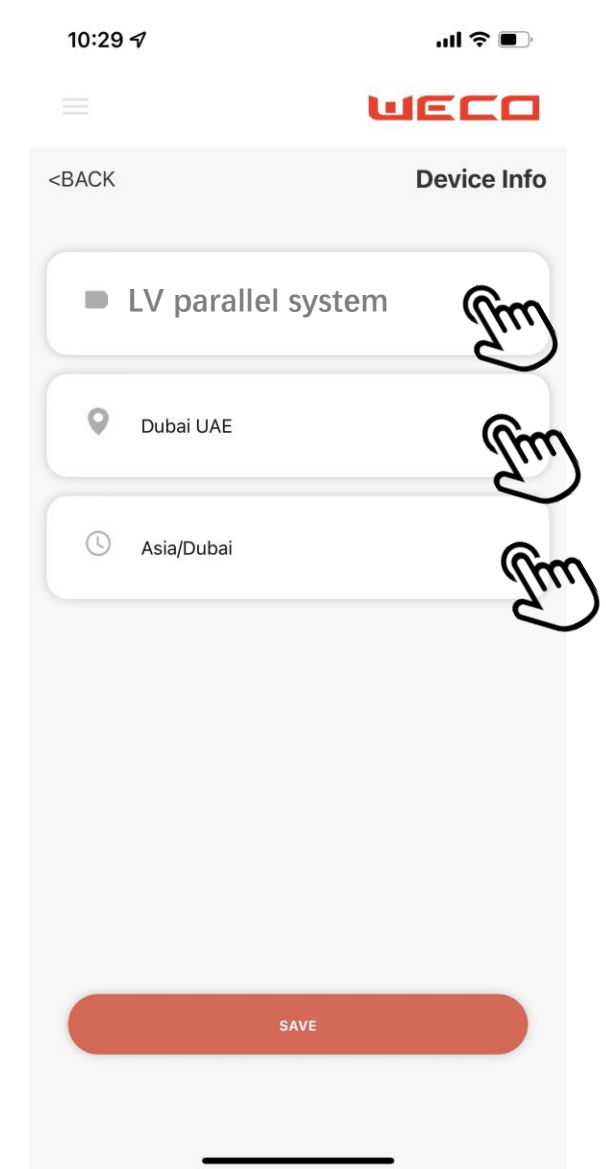
## To Assign a System Name

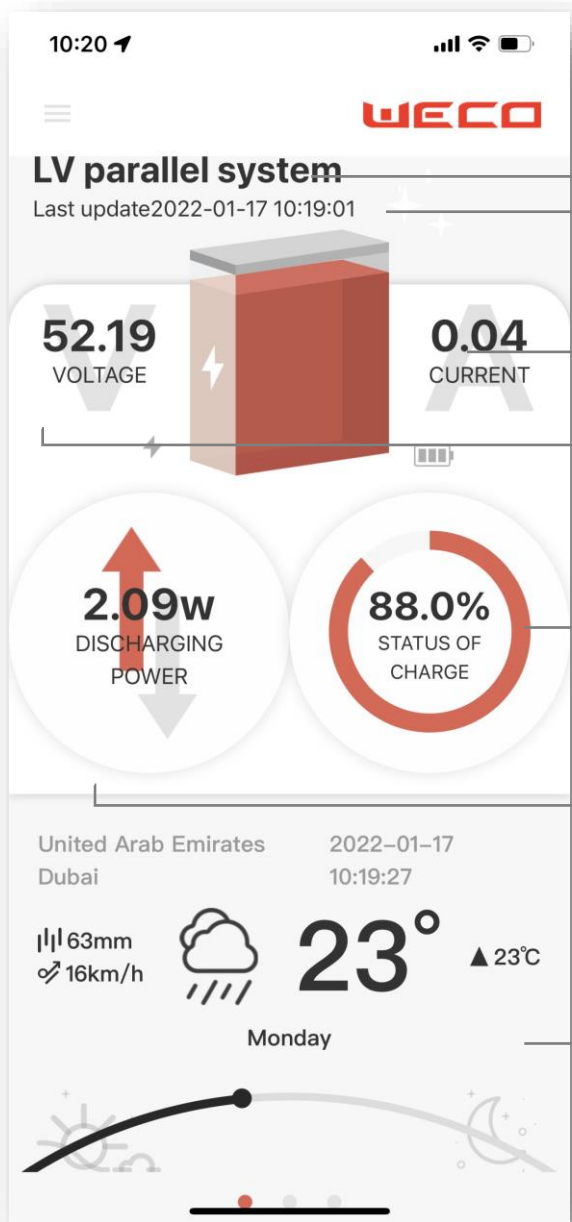
2. Tap on the Upper Setting Symbol



## 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

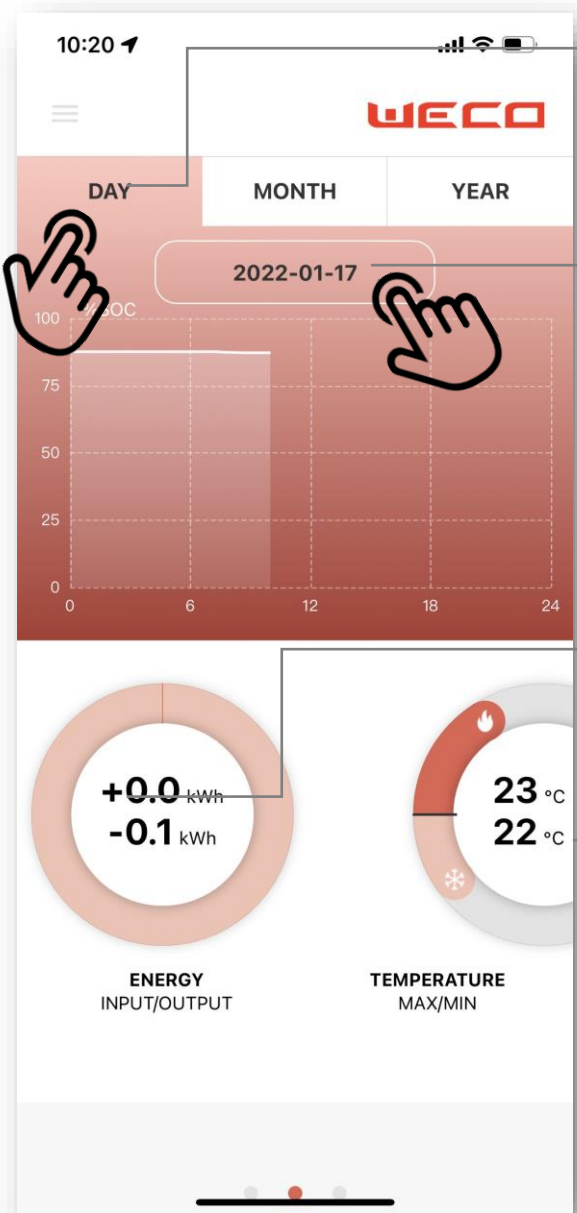
System Voltage in Volts DC

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



## PAGE 3



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)

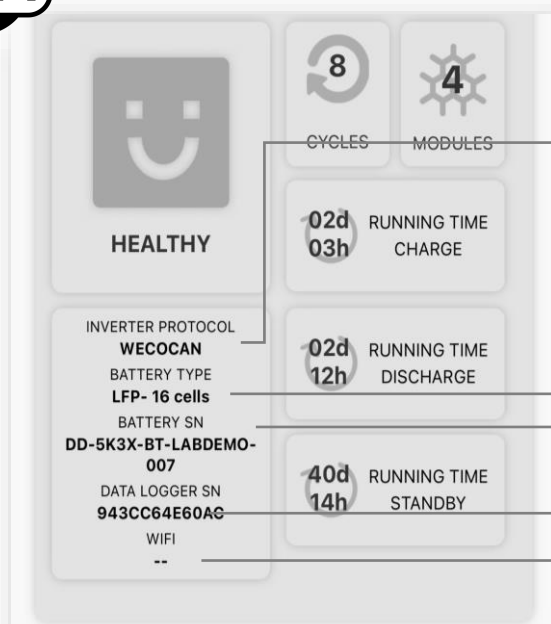
Number of Cycles performed by the Battery or by the Cluster

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



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

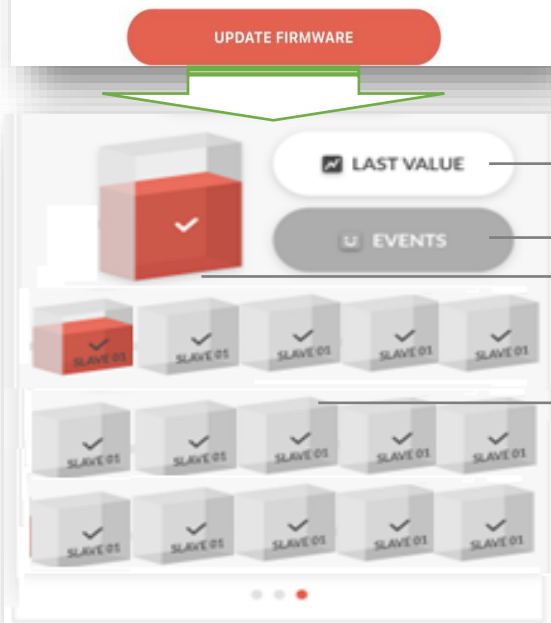
WiFi network Name ( if available by the router provider)

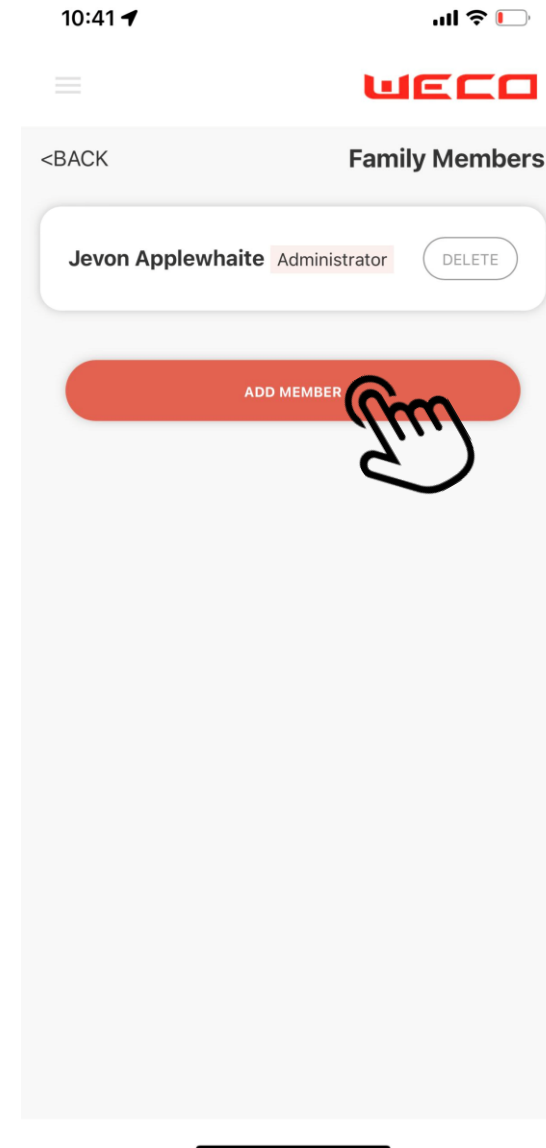
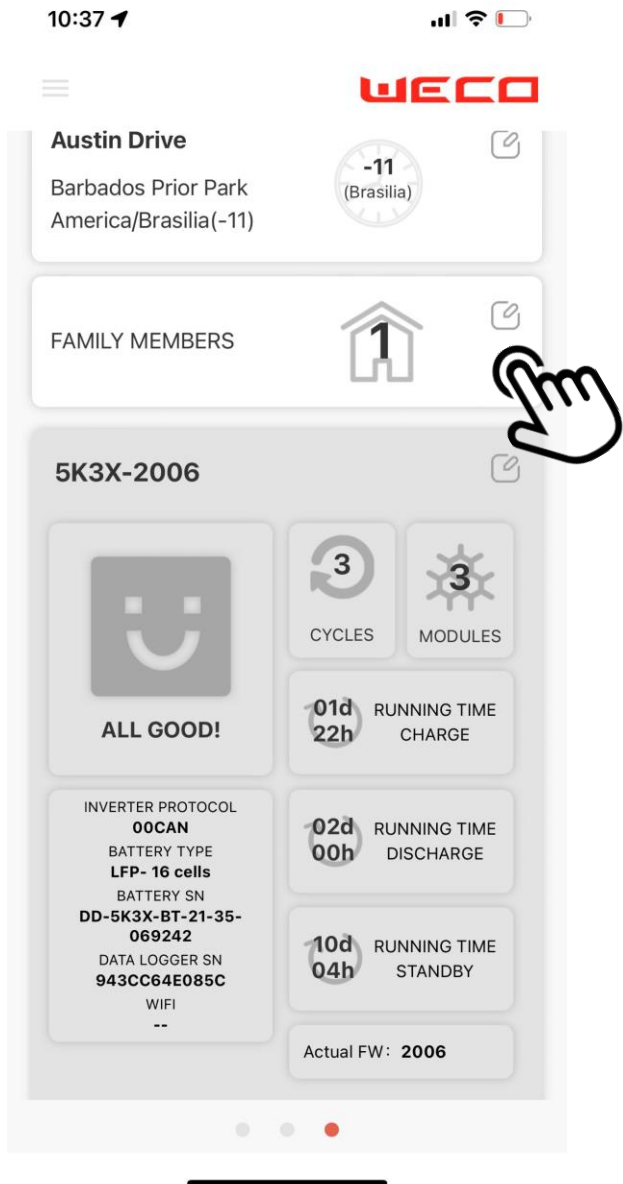
Last Detailed data available for each module of the cluster

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

General Overview of the System SoC

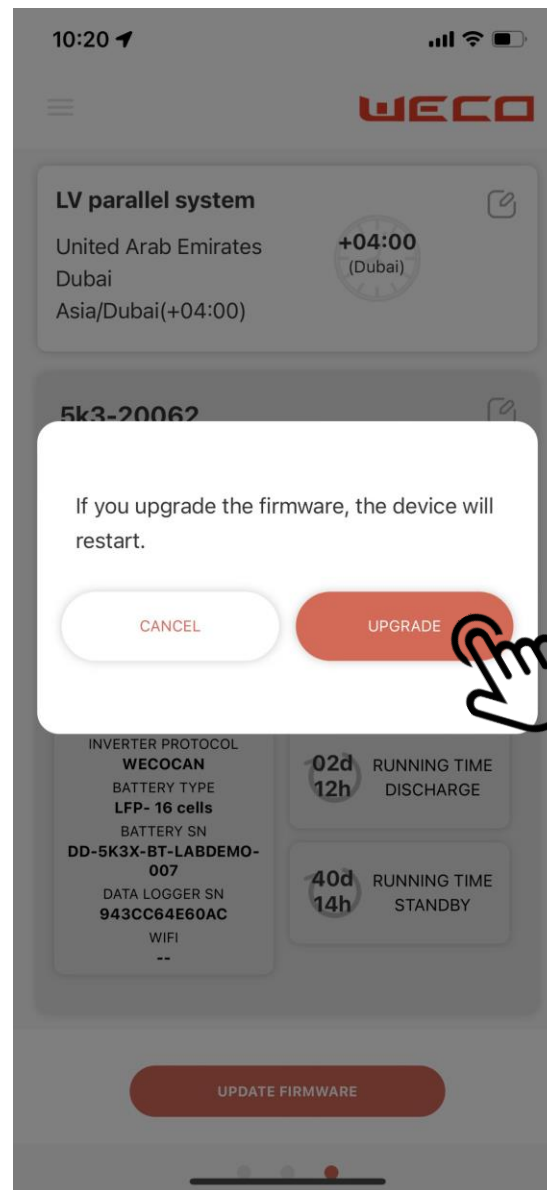
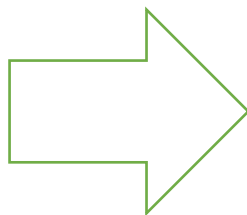
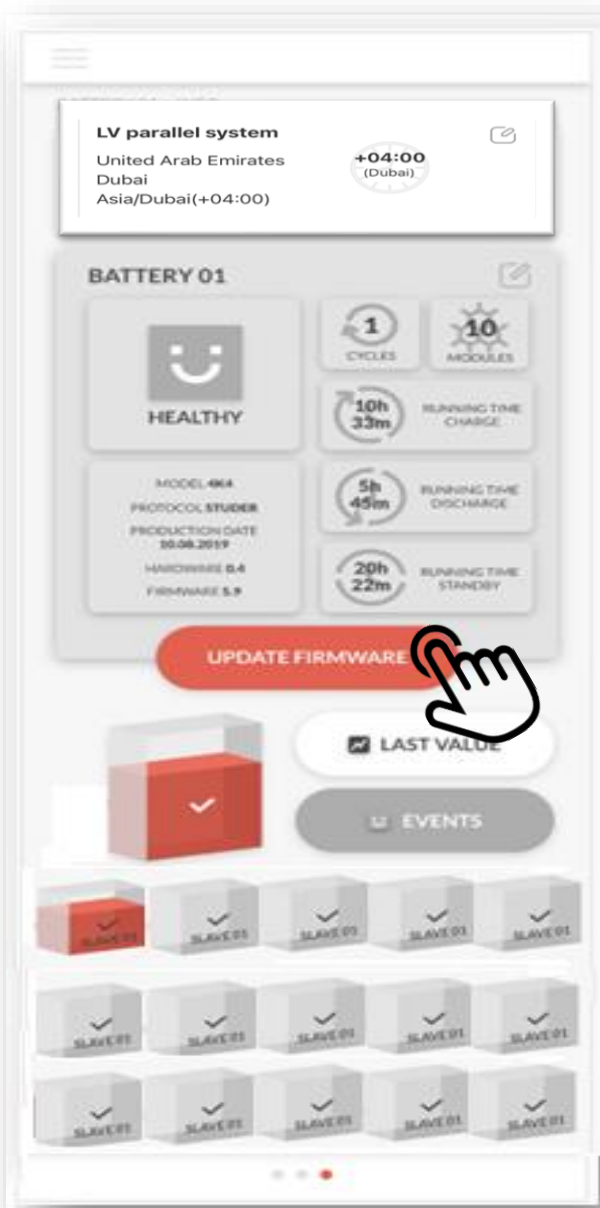
Modules currently online ( RED ) , the BMS records the numbers of module at the first installation and then will determine how many of them are online.  
If one or more module are Offline the operator must inspect the system to clear the error







## FIRMWARE UPDATE

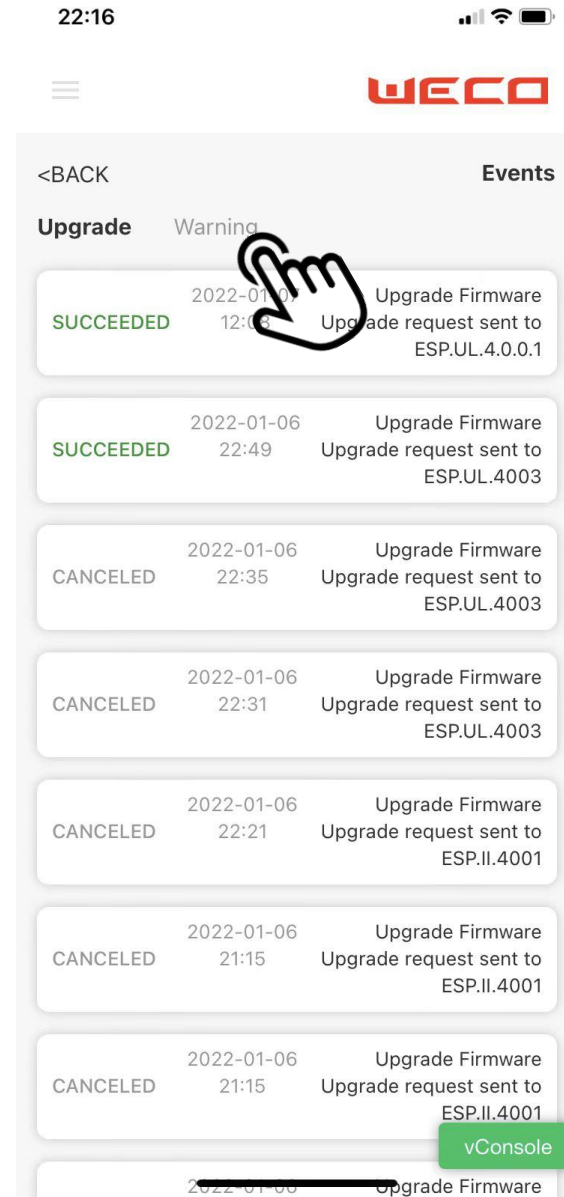
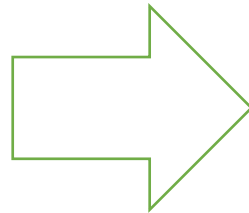
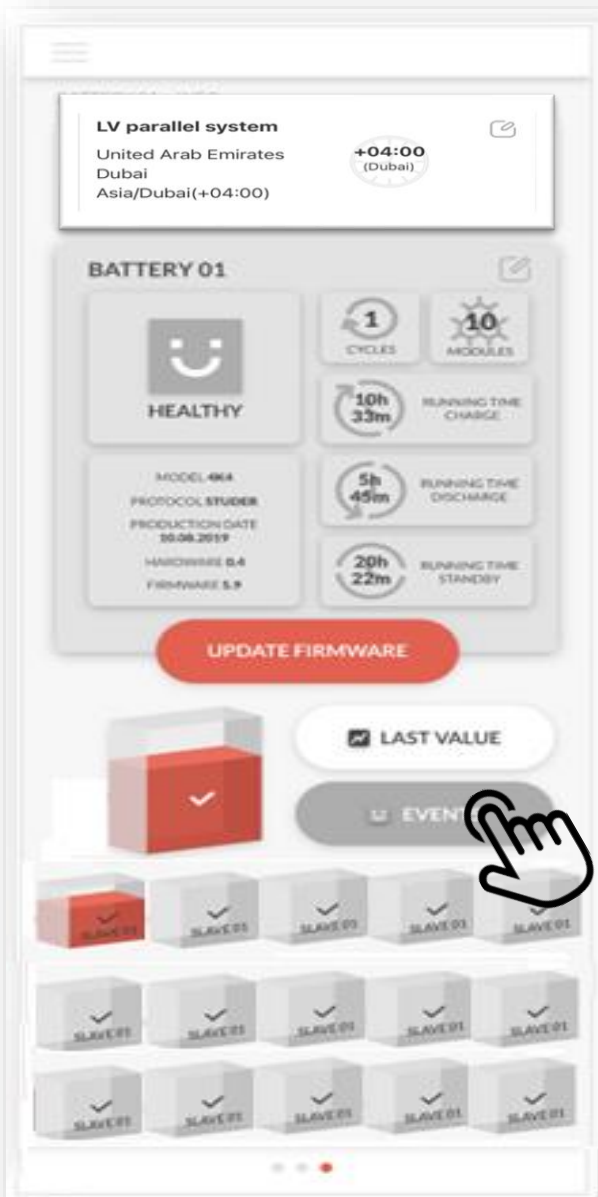


### WARNING

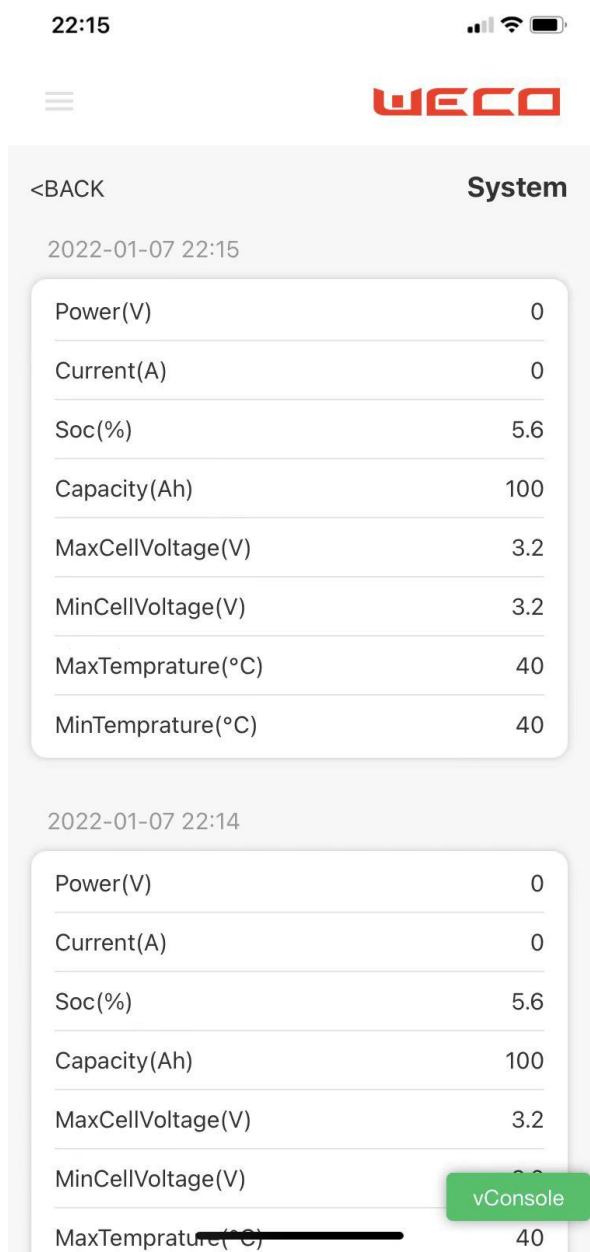
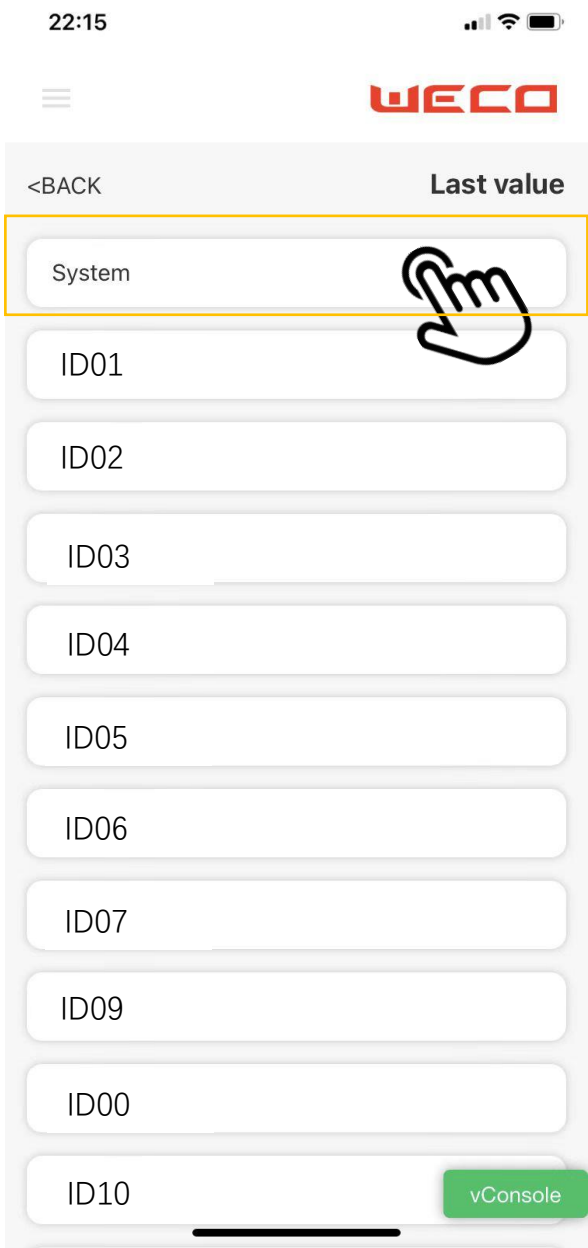
During the FW upgrade it is required to Shut down the inverter before pressing UPDATE



## EVENTS INFO



HV last value



10:38



<BACK

Events

Upgrade

Warning

FAILED

2022-02-04  
17:59

Upgrade Firmware  
Upgrade request sent to  
ESP.UL.4007

FAILED

2022-02-04  
17:04

Upgrade Firmware  
Upgrade request sent to  
ESP.UL.4007

CANCELED

2022-02-04  
16:34

Upgrade Firmware  
Upgrade request sent to  
ESP.UL.4007

CANCELED

2022-02-04  
16:21

Upgrade Firmware  
Upgrade request sent to  
BMS.2007

CANCELED

2022-02-04  
16:20

Upgrade Firmware  
Upgrade request sent to  
ESP.UL.2007

FAILED

2022-02-04  
16:06

Upgrade Firmware  
Upgrade request sent to  
ESP.UL.4007

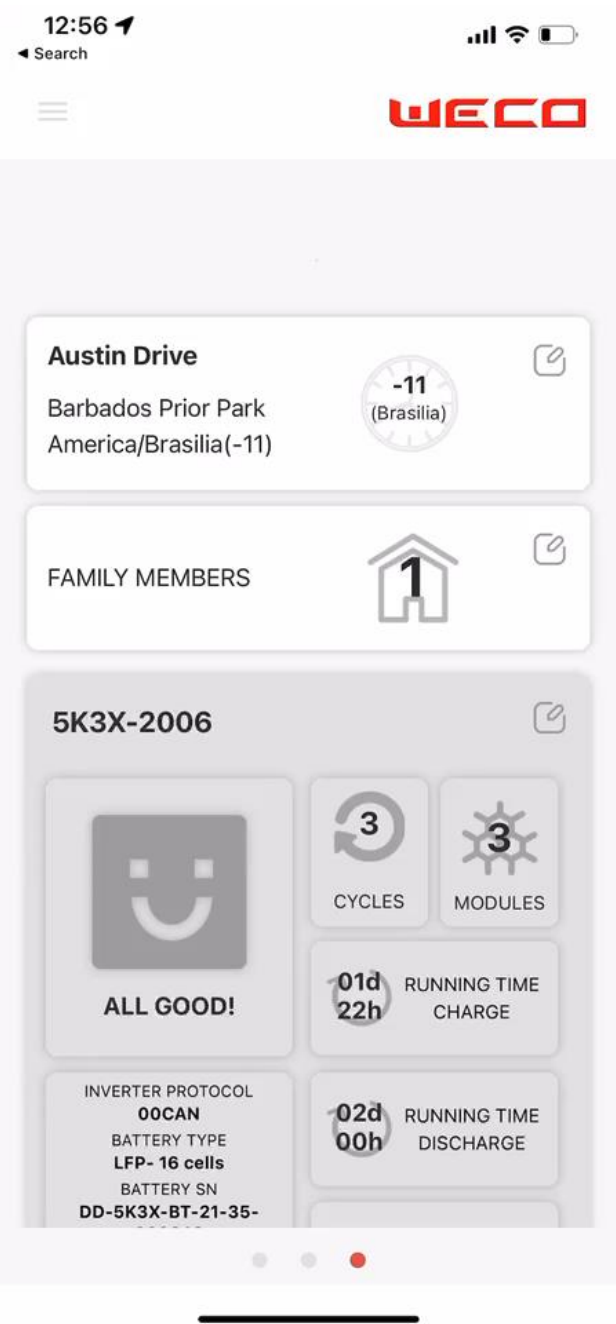
CANCELED

2022-02-04  
15:35

Upgrade Firmware  
Upgrade request sent to  
ESP.UL.2007



# APP FIRMWARE UPDATE VIDEO



**END OF THE DOCUMENT**