

WECO

5K3XP

WiFi and Bluetooth Quick Guide



BLUETOOTH AND WiFi MONITORING APP FOR ANDROID AND APPLE

android 





IMPORTANT

The APPs with WiFi connections are developed to remotely monitor the products of the WeCo ESS XP and PRO series.

To use the monitoring services it is necessary:

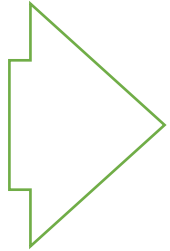
- to register with an e-mail to receive the authentication code
- to authorize the location of your mobile phone in order to use the Weather and Optimal Location services of the server.

The data of your system, the location, the name, and the home WiFi network as well as the personal data you enter during the REGISTRATION phase will be saved on servers owned by WeCo and third parties.

Your email address used for registration will not be disclosed to third parties for commercial or analytical purposes.

You can request the deletion of your data and system data at any time by writing to rdp@wecobatteries.com.

WECO



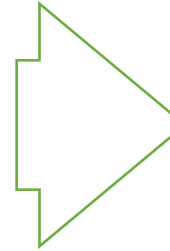
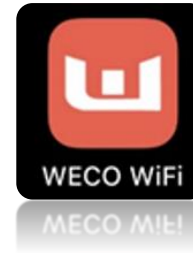
10:59

WECO

Password

Login

Free Access



10:59

WECO

Email
Enter your email address

Password
Enter your password

Remember me ☐

FORGOT PASSWORD?

LOG IN

OR

REGISTER



 Bluetooth® BT App was developed mainly for Installers to allow FW upgrade and Debug during the installation phase, but can be used by private customers too, even if with limited functions.

- 

*The family member must download and register with the APP to be enabled as guest.

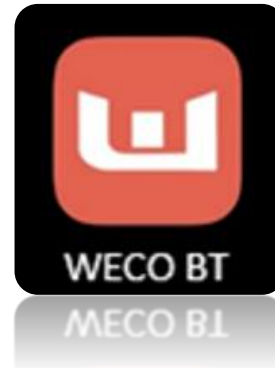
	On Line registration	Live Data Overview	Live Data OFFLINE	Historical Data	Firmware Upgrade	Multiple Module Monitoring	Multiple User Access	Mobile Notifications	Multi members Account	Expert Function for BQ/SOC/SHU NT Calibration
 Bluetooth®  										
  										



THE APP INTERFACE WAS DEVELOPED BOTH FOR APPLE AND ANDROID PHONES AND TABLETS

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, so the APP is updated every four minutes.
For Live Data need to use the Bluetooth Connection APP.



android 



AVAILABLE ON GOOGLE PLAY
WECO BLUETOOTH

 iOS



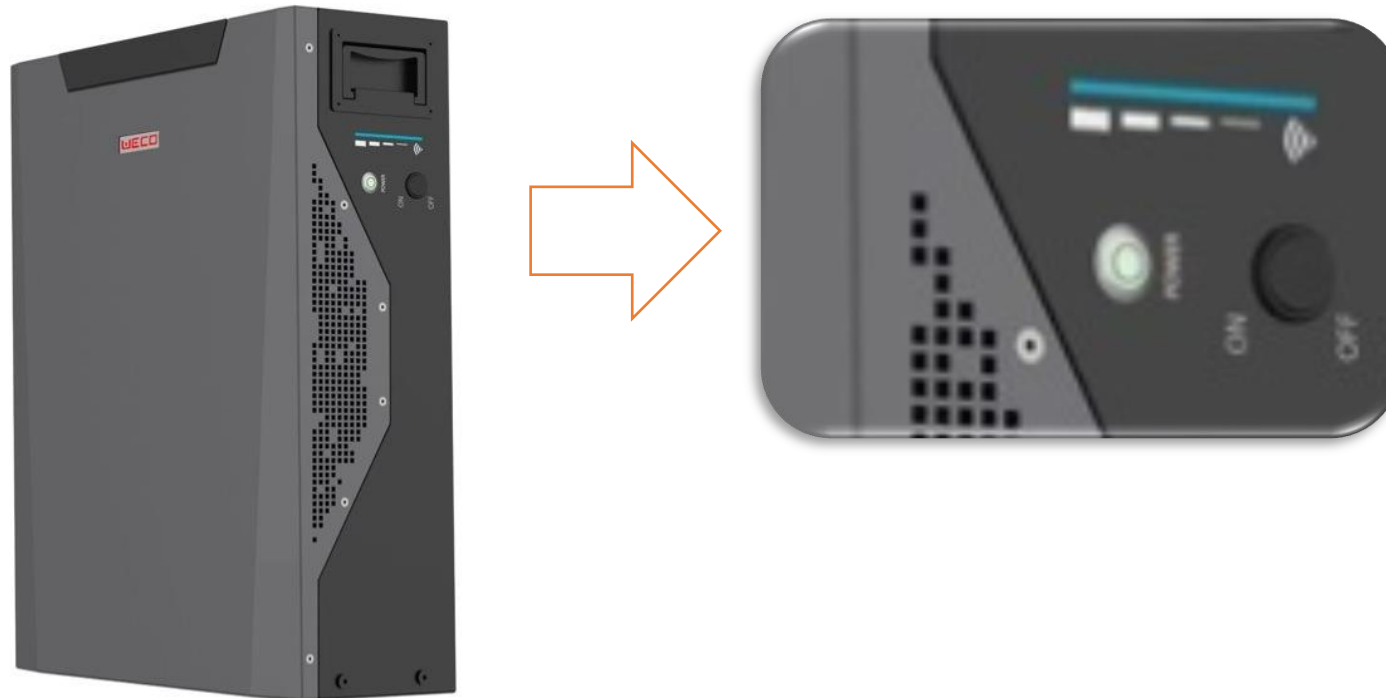
AVAILABLE ON APPLE STORE
WECO BLUETOOTH

WiFi Board embedded (Bluetooth and WiFi)

XP Models are equipped with built-in WiFi and Bluetooth Device linked to the BMS.

The Module is located on the side of battery where there is the LED BAR and it is automatically powered by the BMS. Press the run button for 2-3 seconds to wake up the battery and wait for the relevant led in the led bar to flash green.

The First LED LIGHT of the LED BAR is Green if the WiFi Board is Powered and connected online, Blue if Powered but not online, RED if there is a fault.



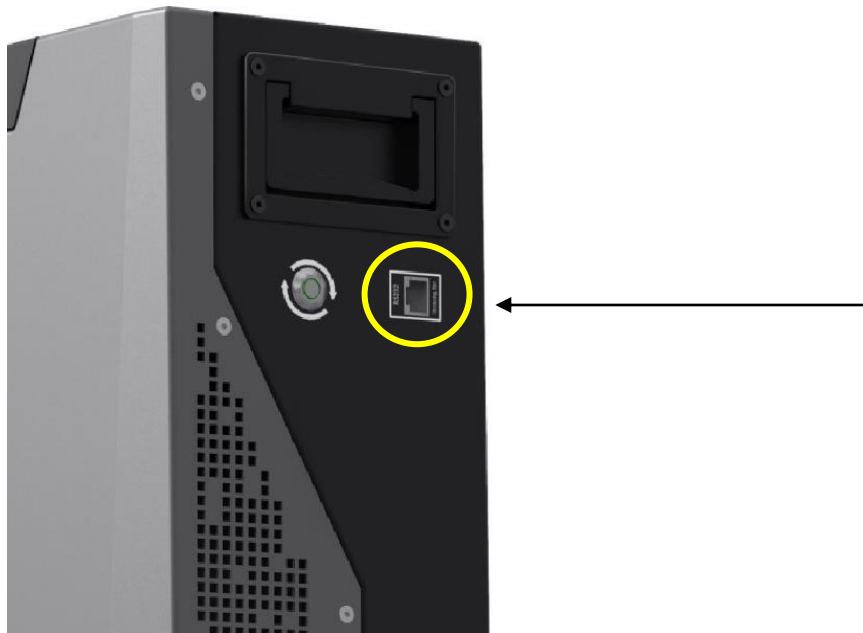
EXTERNAL WiFi / Bluetooth DONGLE FOR NON-XP MODELS

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

Turn on the rocker switch (if present).

Press the run button for 2-3 seconds to wake up the battery and wait for the relevant led to flash green.

The WiFi / Bluetooth ESP dongle will automatically turn on and the Battery will be discoverable via Bluetooth in less than 10 seconds.



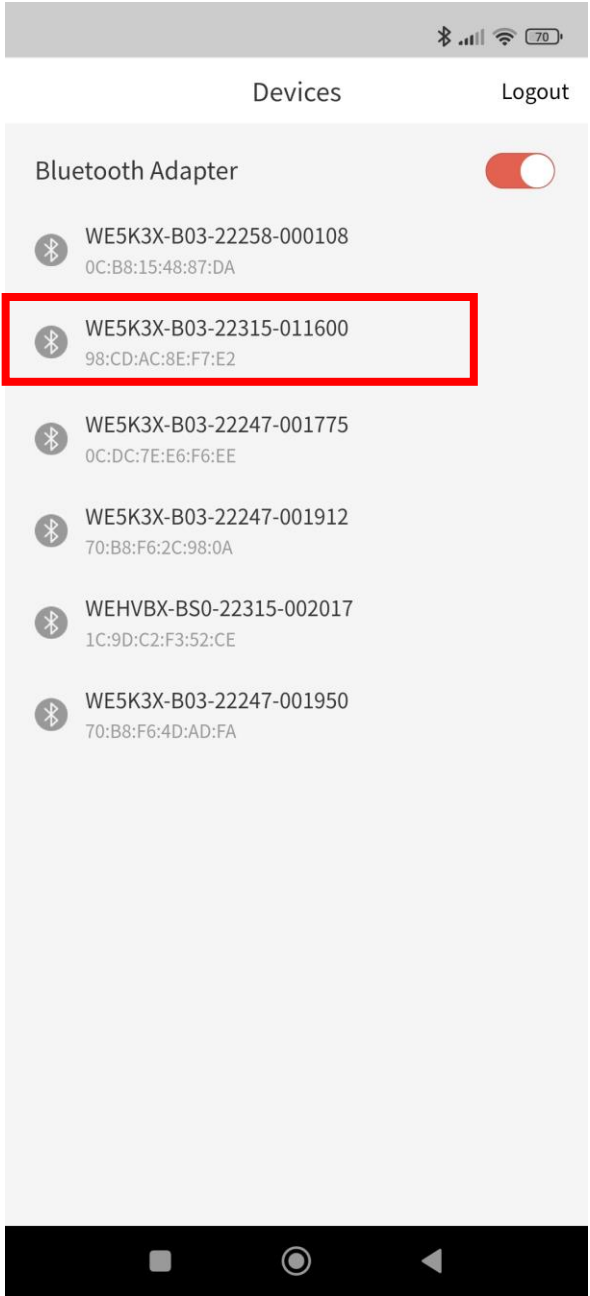


Select the Battery you want to connect with.
The name of the battery is the same as the battery S/N printed on the label.

Warning.
The Bluetooth APP works only with one battery, multiple connections are not supported.
Exit the APP or Log Out before attempting to connect with another battery.
If you are connected via the Bluetooth APP to one battery, the same battery cannot be detected by another device or by another WeCo APP.



Bluetooth®
1 X





Bluetooth connection

1 Download the APP.



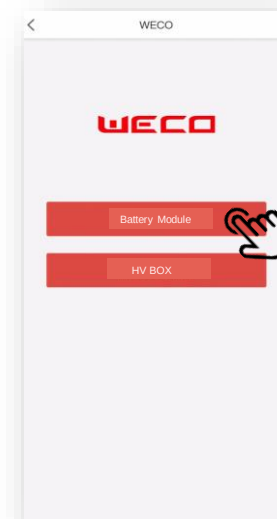
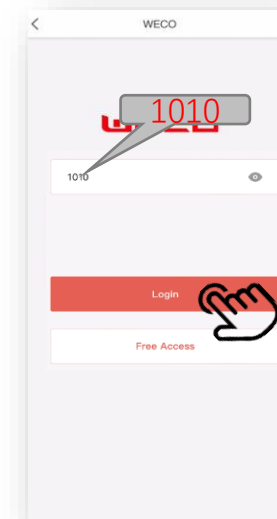
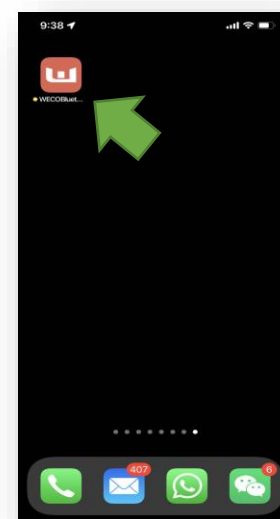
2 Turn On the battery by pressing the RUN BUTTON for 2-3 seconds.

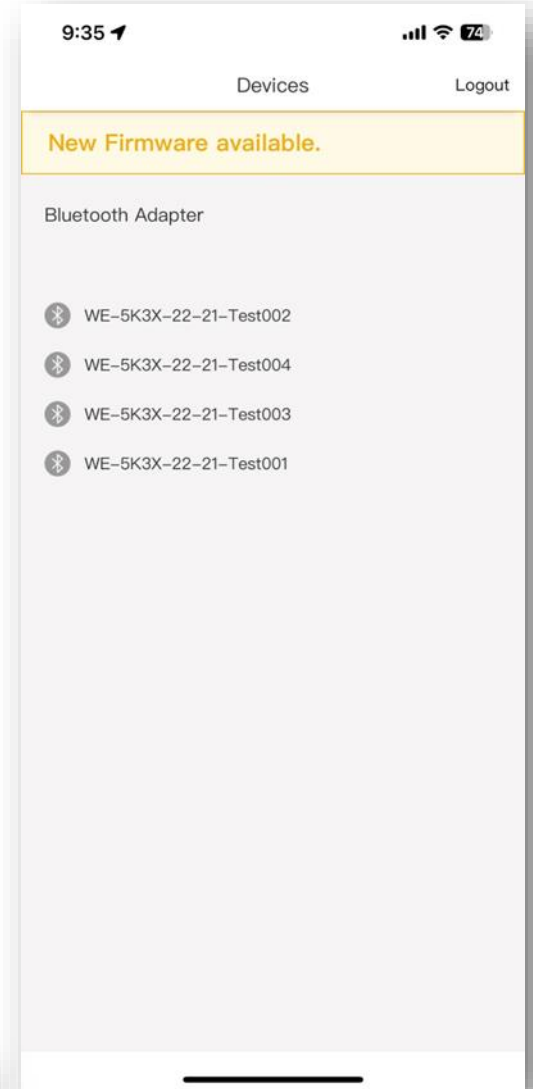
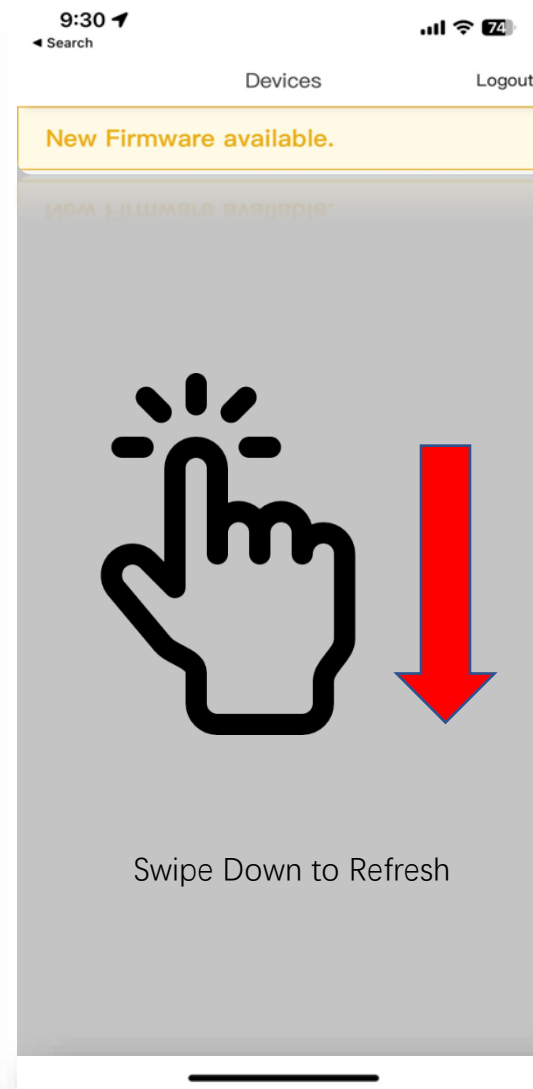
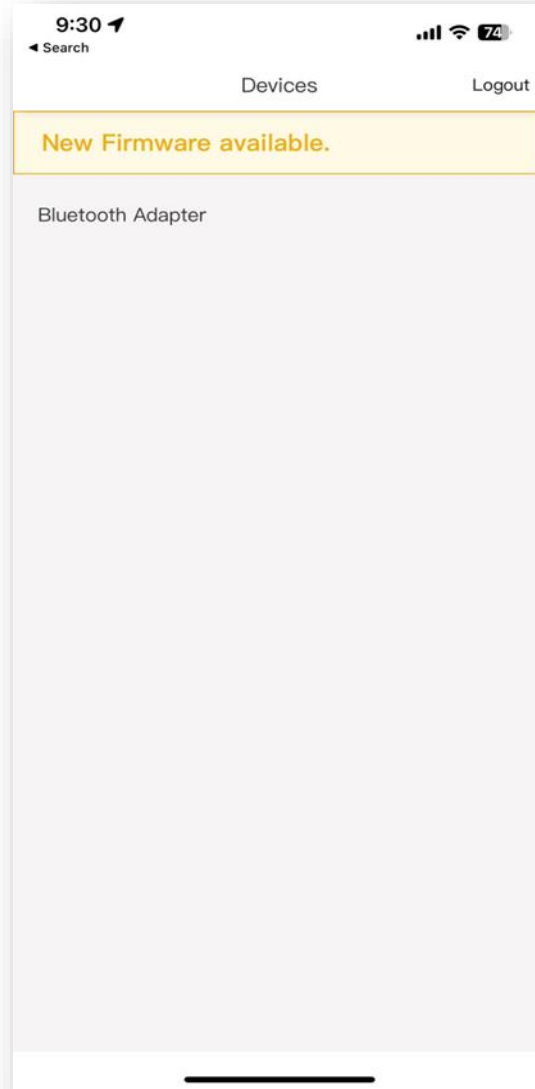
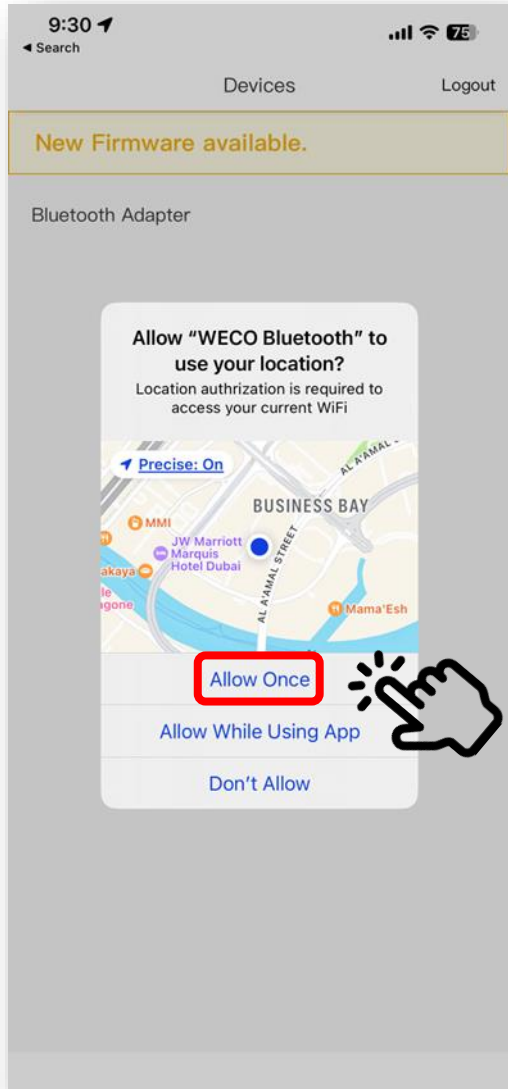


2 bis For External Device, Plug it on the WiFi/Operator Port.
Turn on the battery pressing the RUN button 2-3 sec.



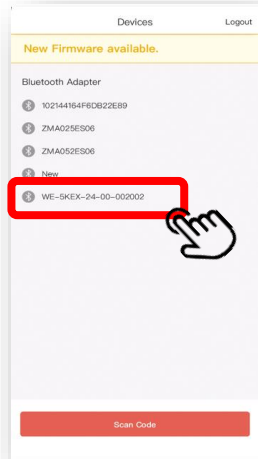
3 Access the APP via free access or by using the password 1010.
Then press **LOGIN** and select **Battery Module** to access the Overview page.



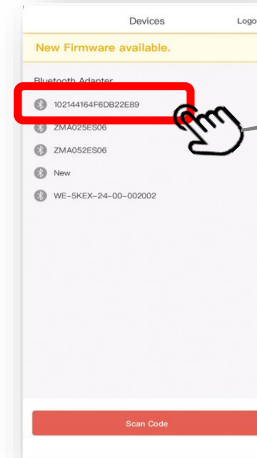




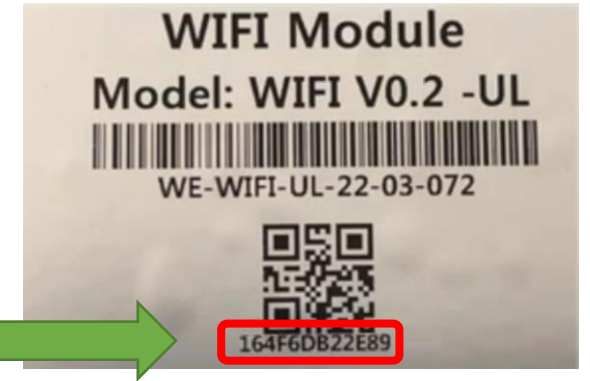
4 Select the Device from the list.



4 bis In case of external dongle select the Mac Address of the device.

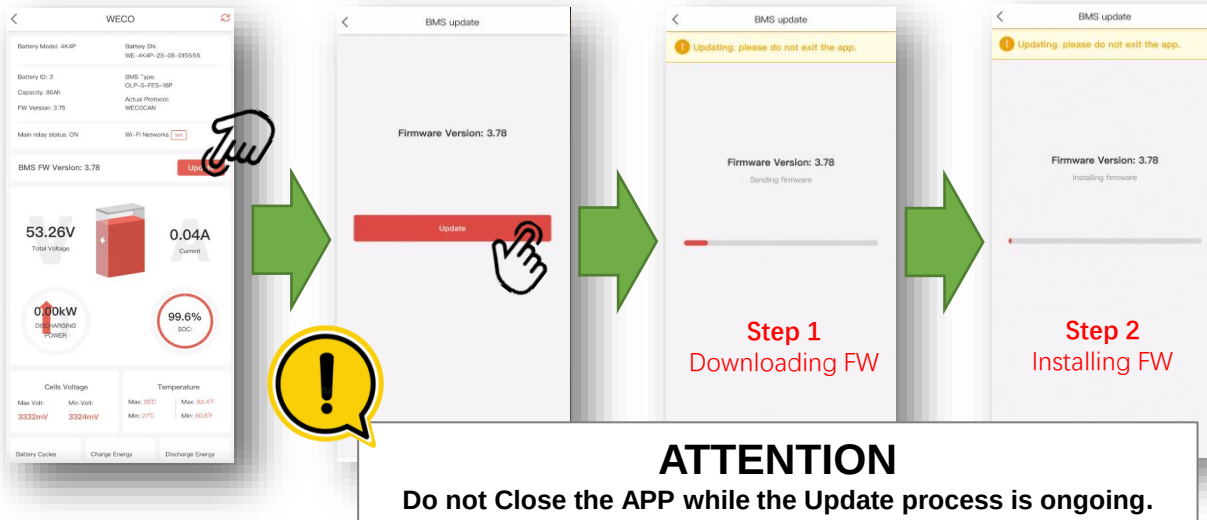


Select the External WiFi MAC ADDRESS

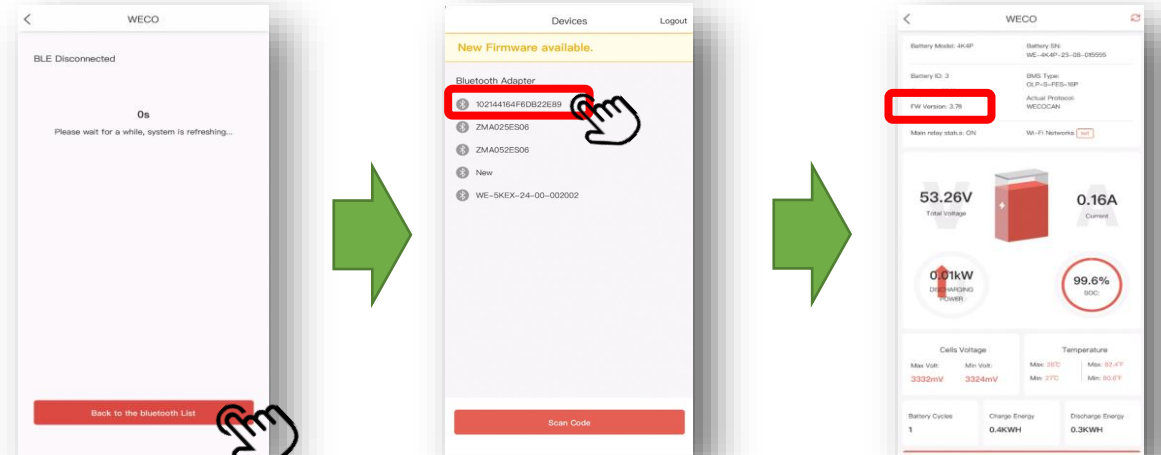


Sto solo leggendo

5 If the UPDATE button is visible means that a NEW FIRMWARE IS AVAILABLE.
Press UPDATE to start the process.



6 After the UPDATE process the NEW FIRMWARE will be visible on the APP.





Network Set

WECO

Battery Model: 4K4P Battery SN: WE-4K4P-23-08-015555

Battery ID: 3 BMS Type: OLP-S-FES-16P

Capacity: 86Ah Actual Protocol: WECOCAN

FW Version: 3.75

Main relay status: ON **Wi-Fi Networks** set

BMS FW Version: 3.78 Update

53.26V Total Voltage

0.04A Current

0.00kW DISCHARGING POWER

99.6% SOC

Cells Voltage Temperature

Max Volt: 3332mV Min Volt: 3324mV Max: 28°C Max: 82.4°F

Min: 27°C Min: 80.6°F

Battery Cycles Charge Energy Discharge Energy



Input your WiFi SSID and password,
then submit data

Configure Networks Get data

Device online status: Offline

WiFi connection status: ●

Cloud connection status: ●

Wi-Fi SSID

please input your wifi SSID

Wi-Fi Password

please input your wifi password

Modify BLE name ☐

Submit data

Data synced

App Ver:1.38



Go back to devices list, select the
serial number and then Get Data

Configure Networks **Get data**

Device online status: Offline

WiFi connection status: ●

Cloud connection status: ●

Wi-Fi SSID

please input your wifi SSID

Wi-Fi Password

please input your wifi password

Modify BLE name ☐

Submit data

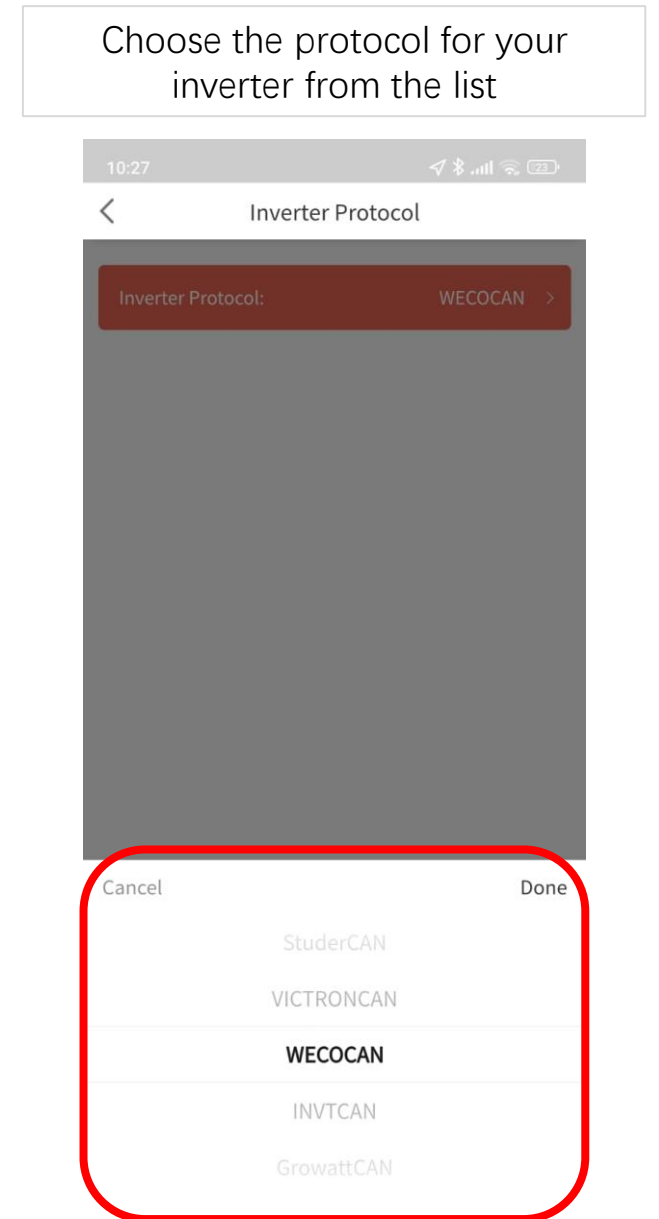
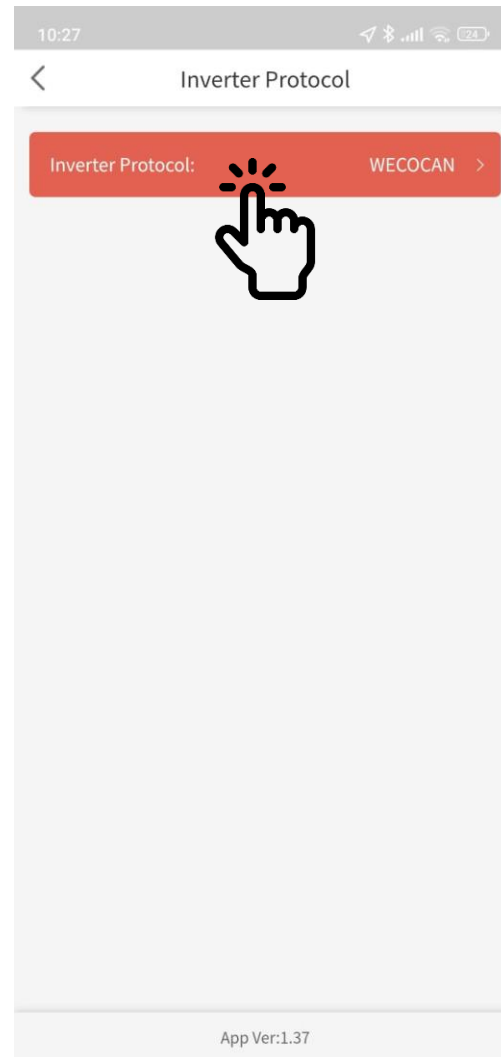
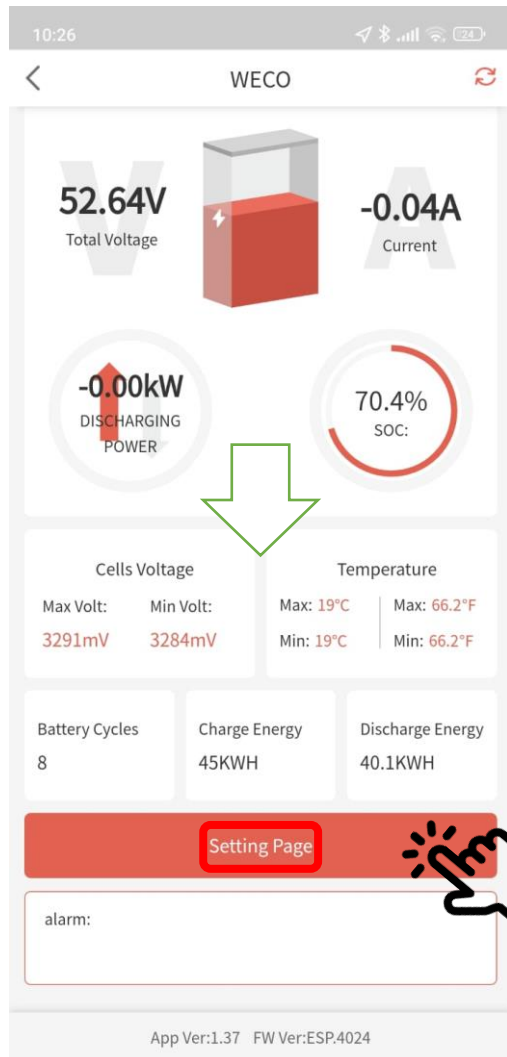
Data synced

App Ver:1.38





Protocol Setting





android 



AVAILABLE ON GOOGLE PLAY
WECO WIFI



 iOS



AVAILABLE ON APPLE STORE
WECO WIFI



Download the APP from Google Play or Apple Store

Search For: **WECO WiFi**

The app icon for WECO WiFi, which is a red square with rounded corners containing a white stylized 'W'.

WECO WiFi

Utilities

[OPEN](#)

IOS Apple Store

The app icon for WeCo WiFi, which is a white square with rounded corners containing a red stylized 'W'.

WeCo WiFi

WeCo Batteries • Productivity

✓ Installed

Android Google Play

Press register to create a new account

AT&T 9:41 AM 100%

WECO

Email

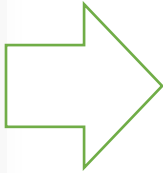
Password

FORGOT PASSWORD?

LOG IN

OR

REGISTER



Register a new Account

AT&T 9:41 AM 100%

WECO

<GO BACK

Name

Surname

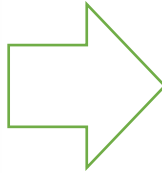
Email [Get Code](#)

Digit code received in your email

Password

Confirm Password

REGISTER



Get the code on your registered email

AT&T 9:41 AM 100%

WECO

<GO BACK

Name

Surname

myemail@gmail.com [Resend In 59s](#)

Digit code received in your email

Password

Confirm Password

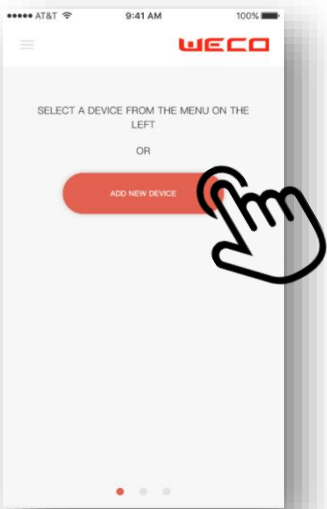
REGISTER

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

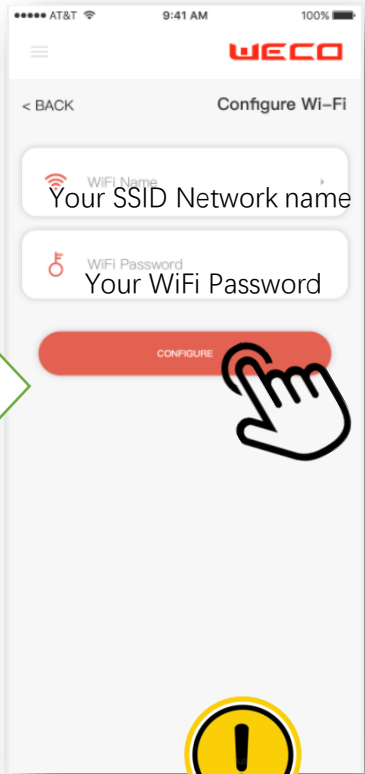
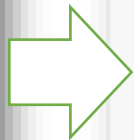
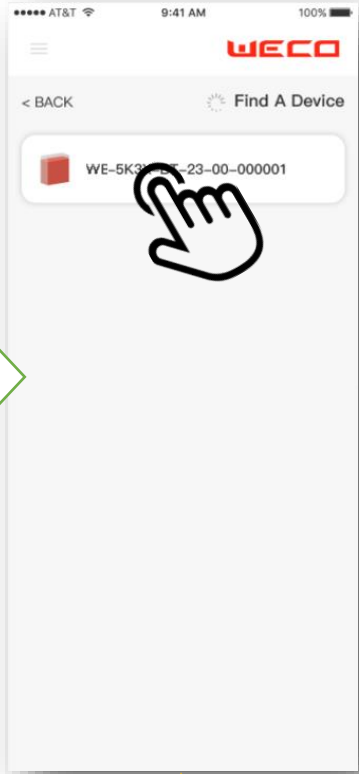
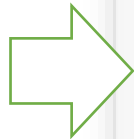
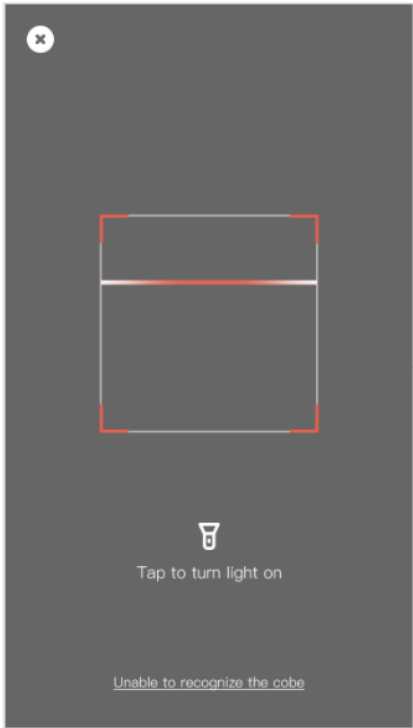
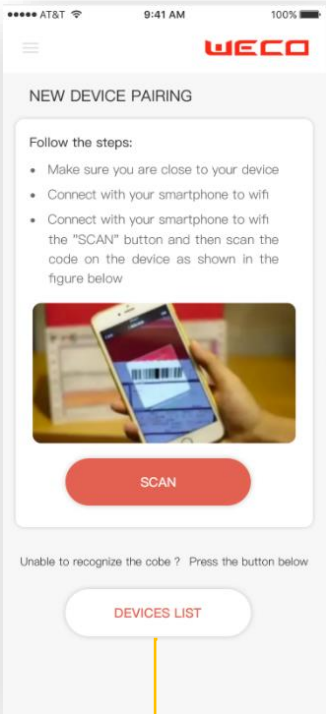
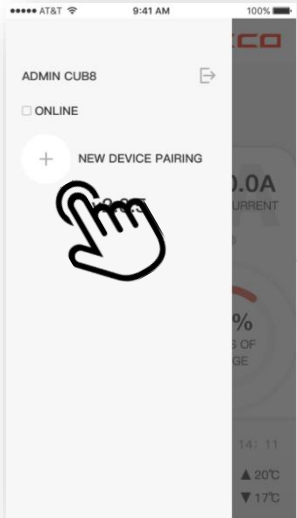
Give Permission to use the Camera + Light

Confirm the Device

Pair the WiFi Local Network



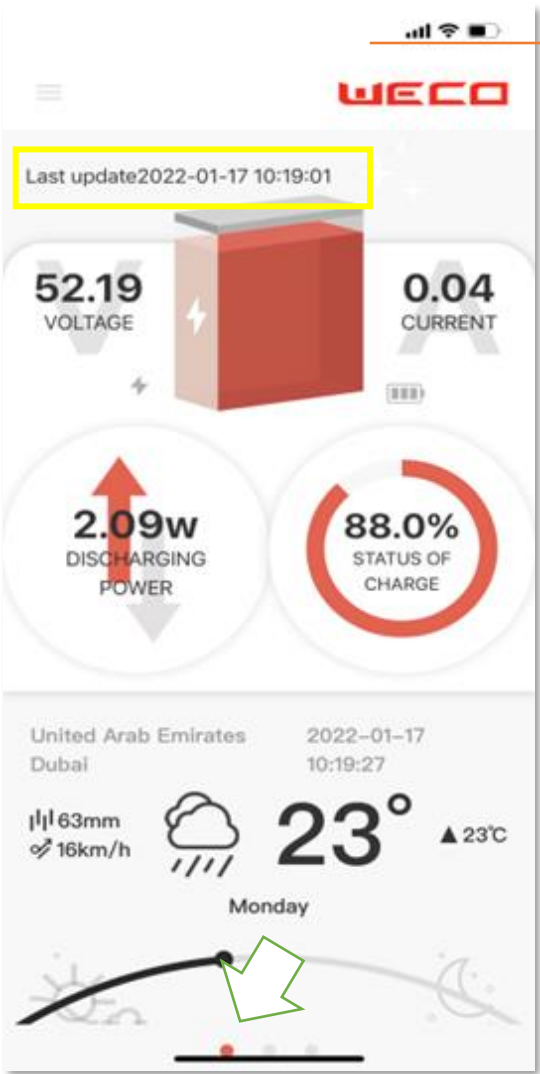
Or Add another Device



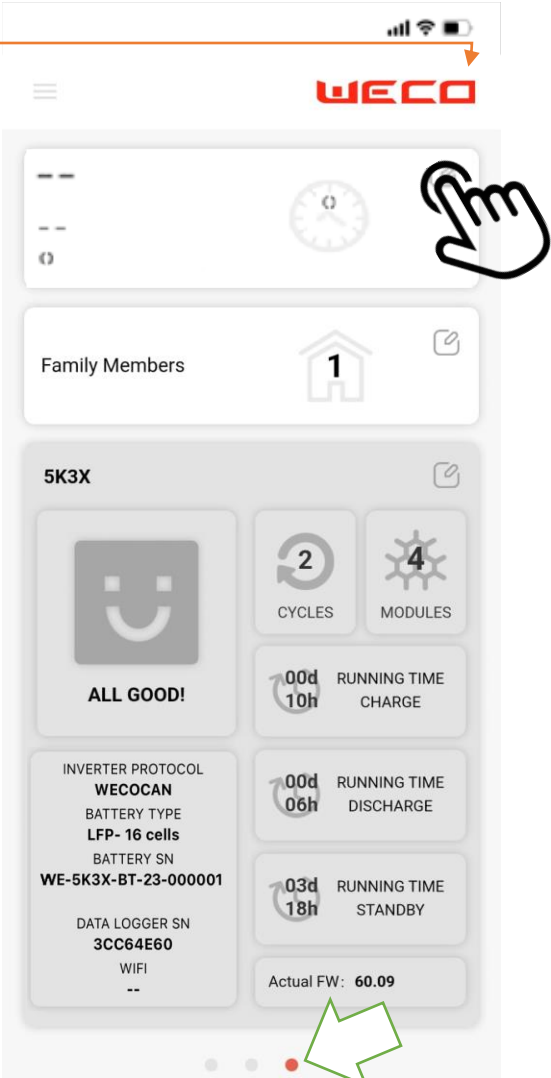
ATTENTION
WiFi Network must have a password, cannot be free access.

Assign a System Name

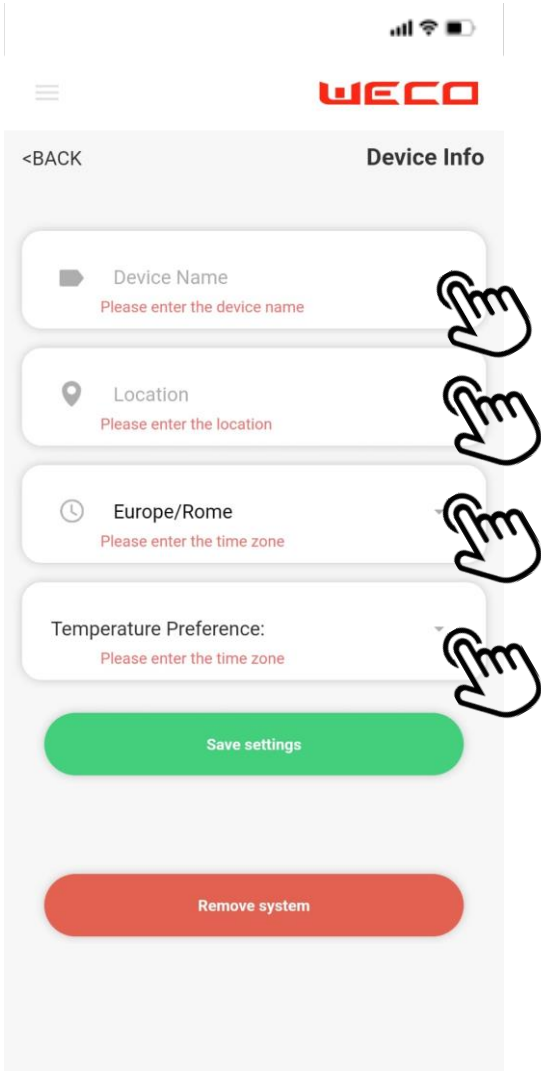
1. Scroll to page 3



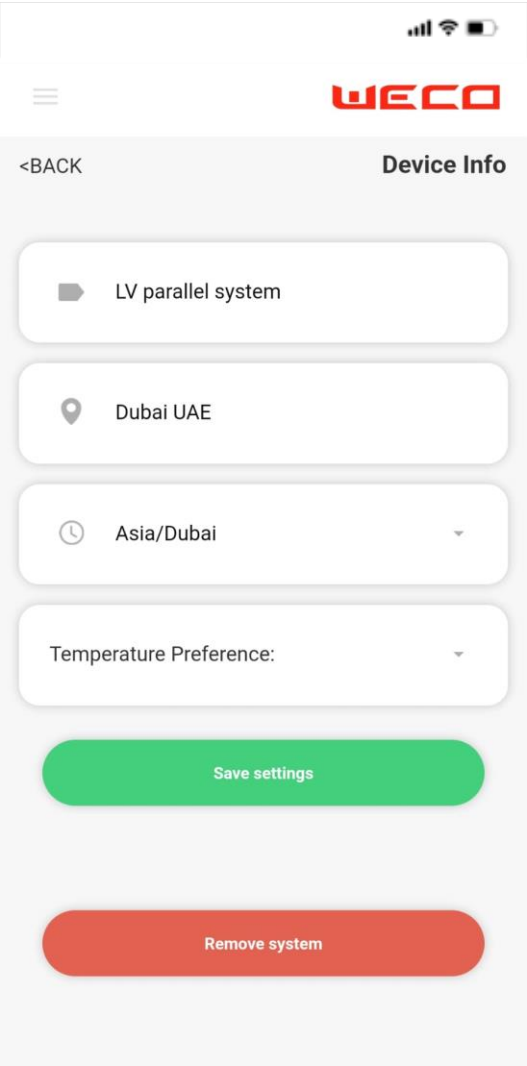
2. Tap on the Upper Setting Symbol



3. Tap on each field to modify

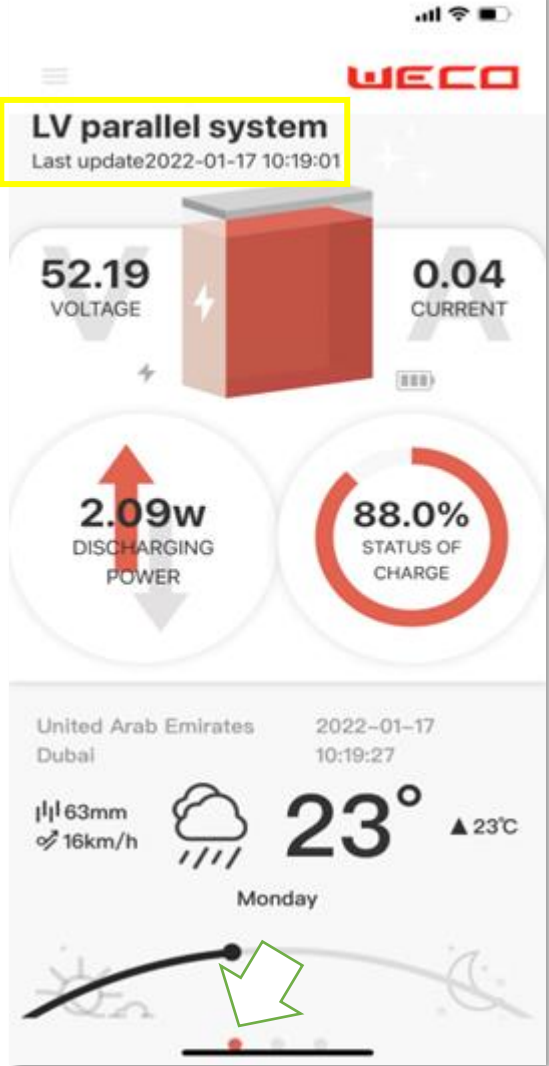
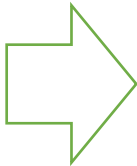
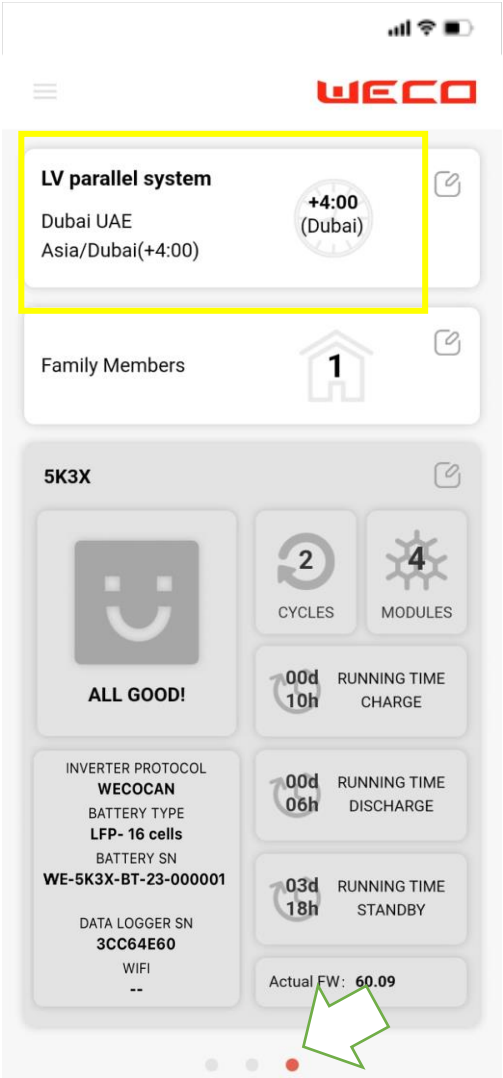


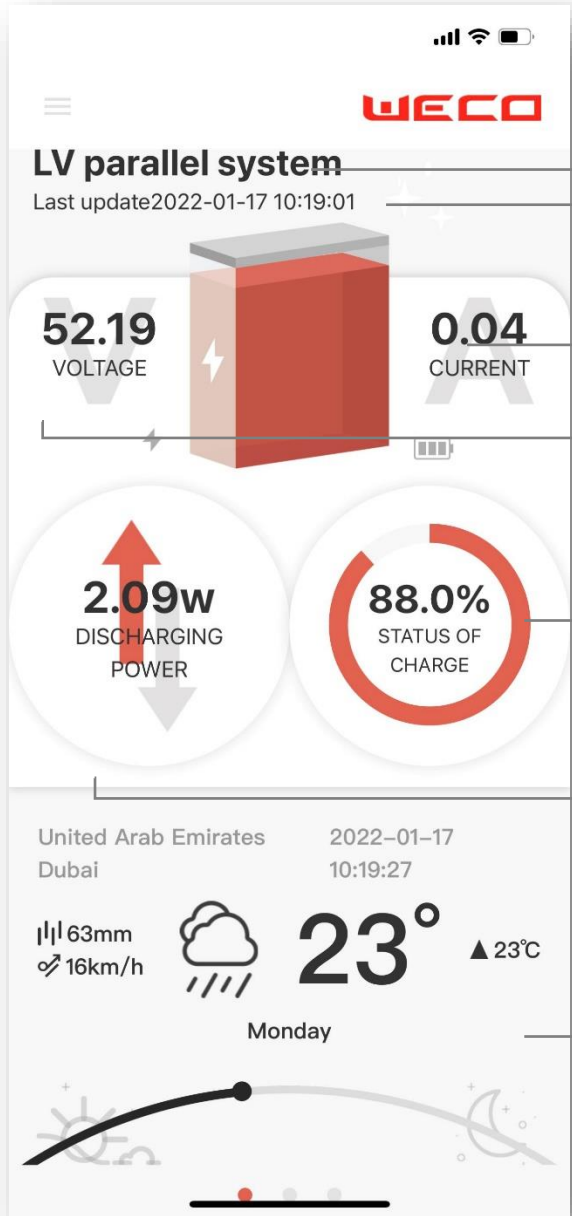
4. Type in the requested information and save



Assign a System Name

5. Information are now displayed in the different pages of the app





System name Assigned by the User * see previous 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

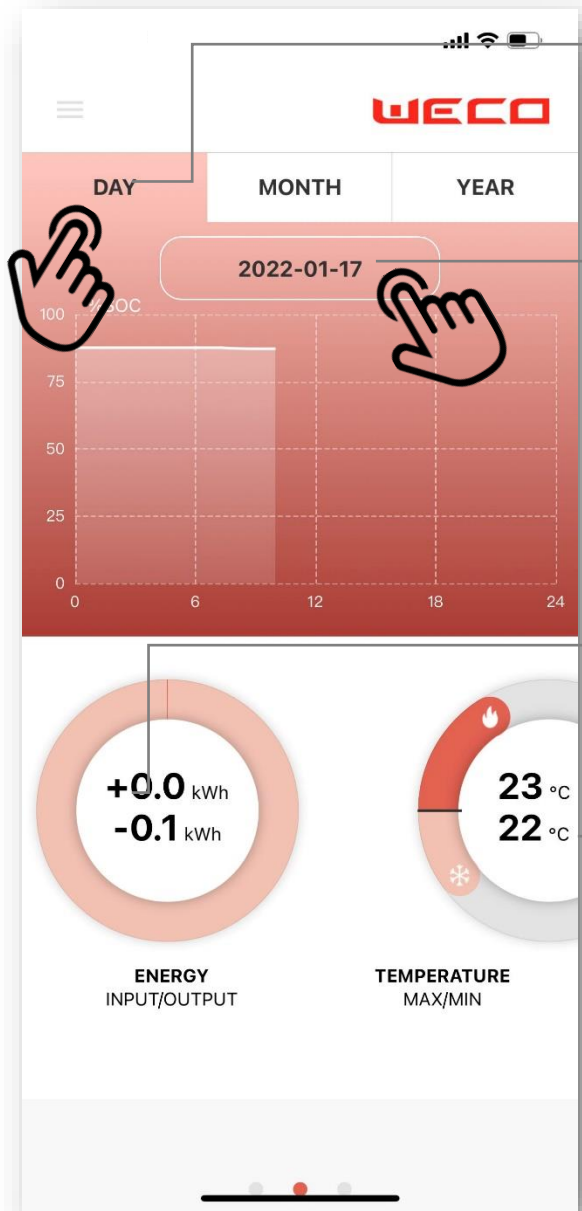
System Current, Charging or Discharging value in Ampere

System Voltage in Volts DC

Status of Charging expressed in percentage

Charging or Discharging Status (When the Arrow is Upward means DISCHARGING, when Downward means CHARGING). The App will also show the value 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)

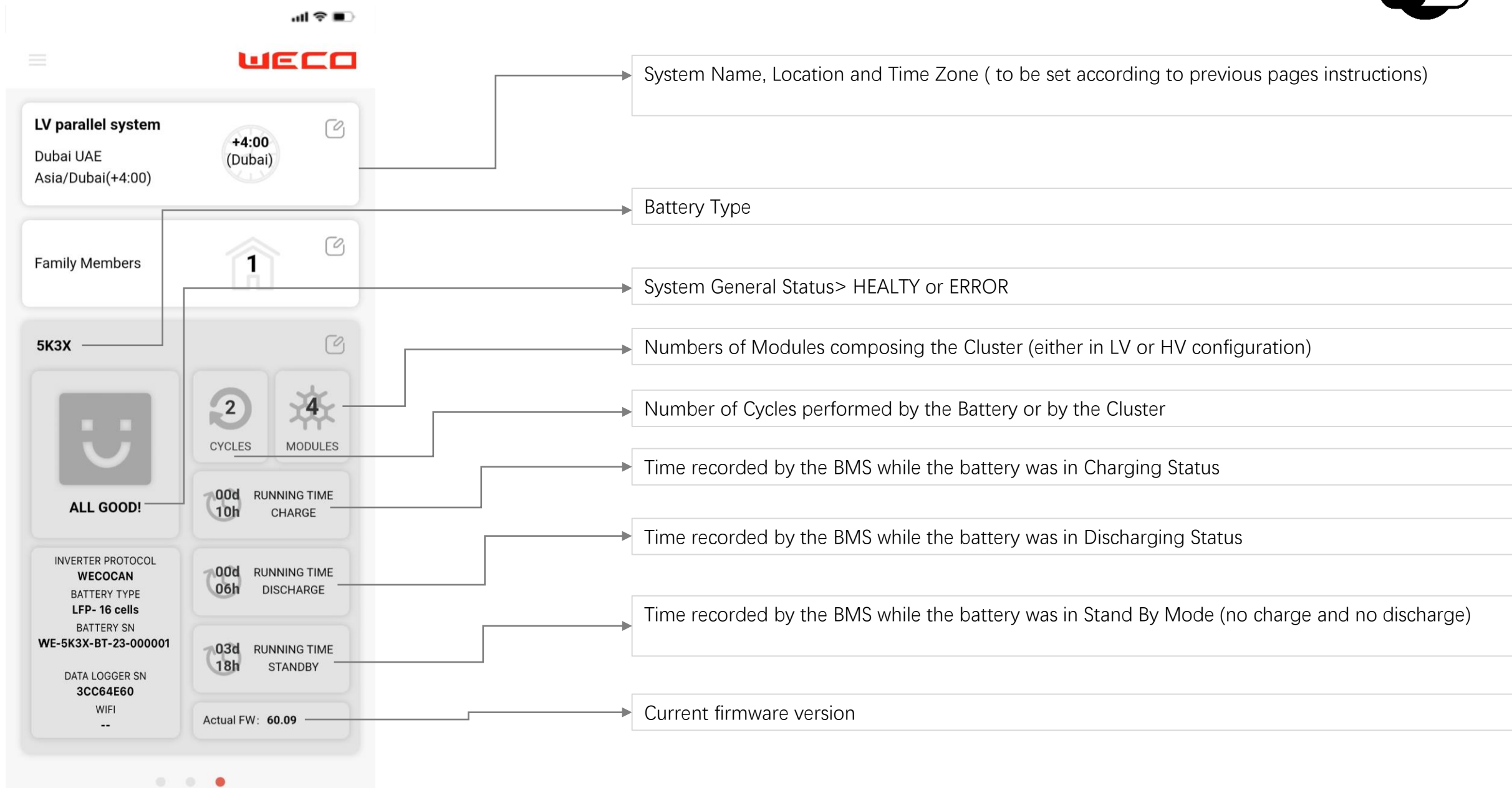


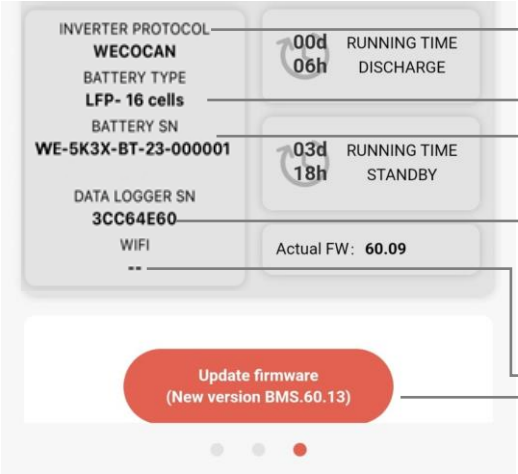
Daily, Monthly and Yearly SoC graph. Tap on the Upperpart of the display to see the result

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





Protocol currently set on the battery BMS

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

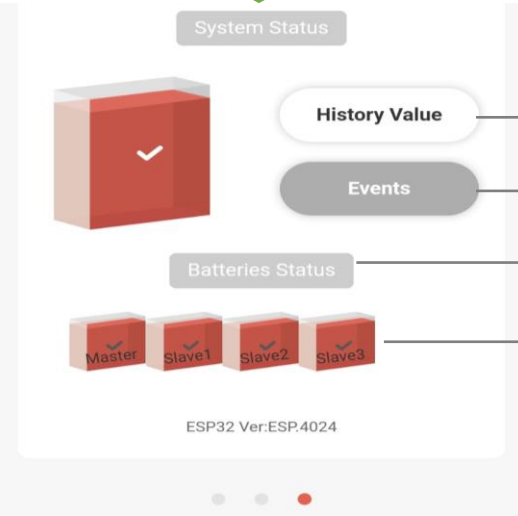
Battery Serial Number

Datalogger MAC address

WiFi network Name (if available by the router provider)

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

SCROLL
DOWN
THE PAGE



Last Detailed data available for each module of the cluster

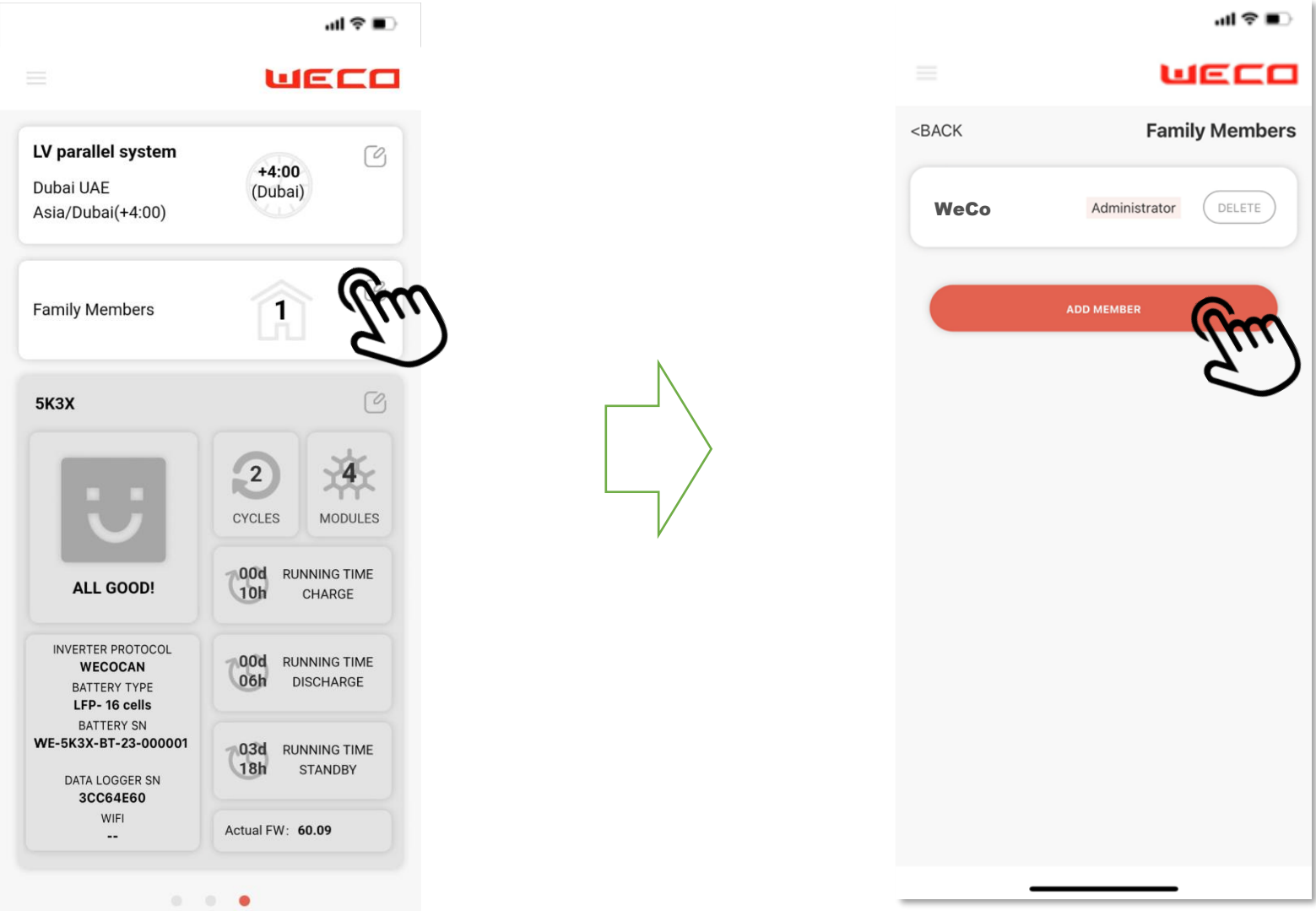
Events of the system, Warnings, Errors, Update process etc.

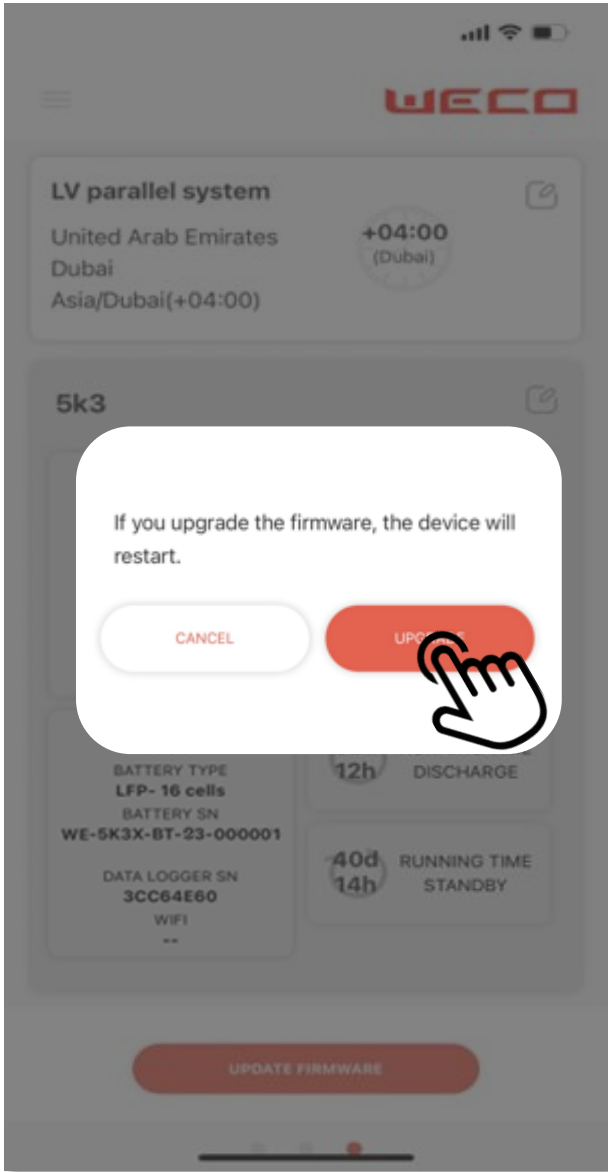
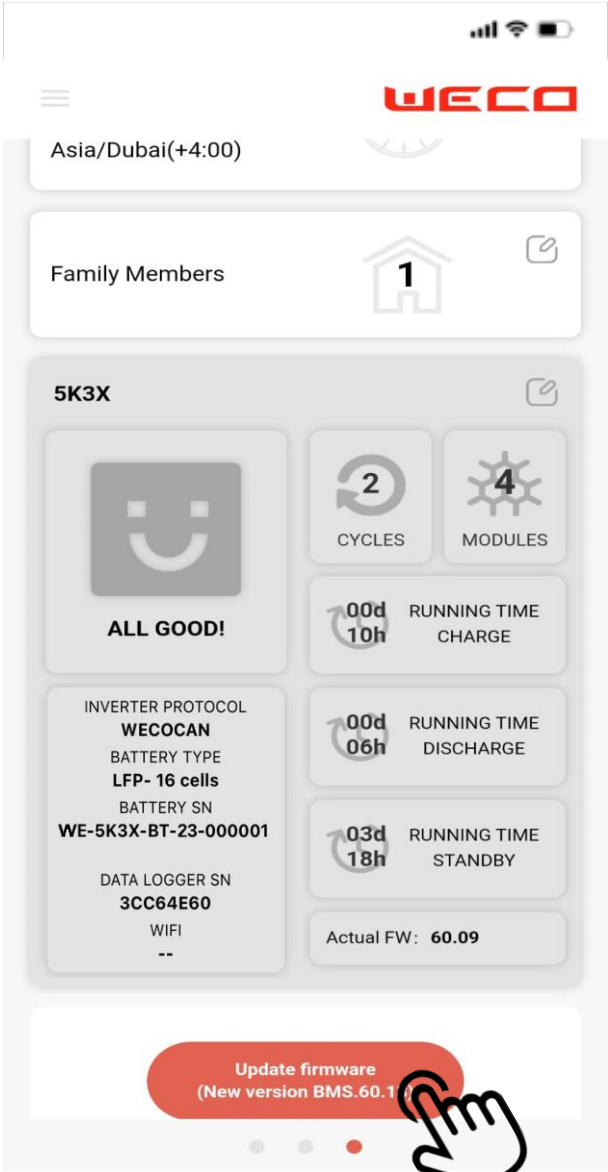
General Overview of the System SoC

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

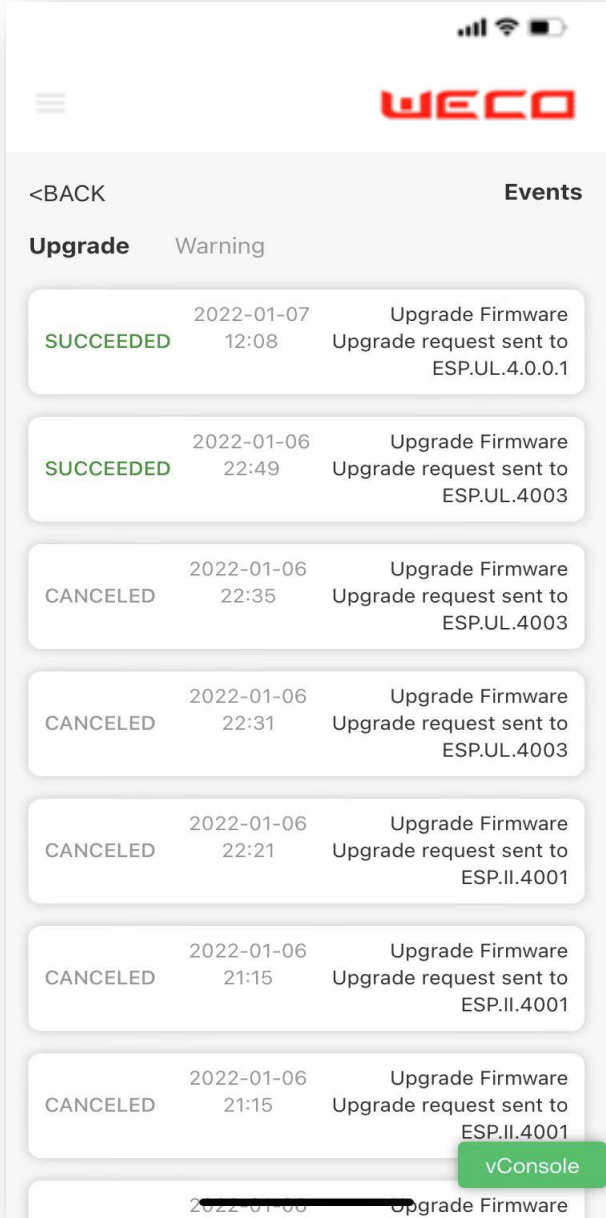
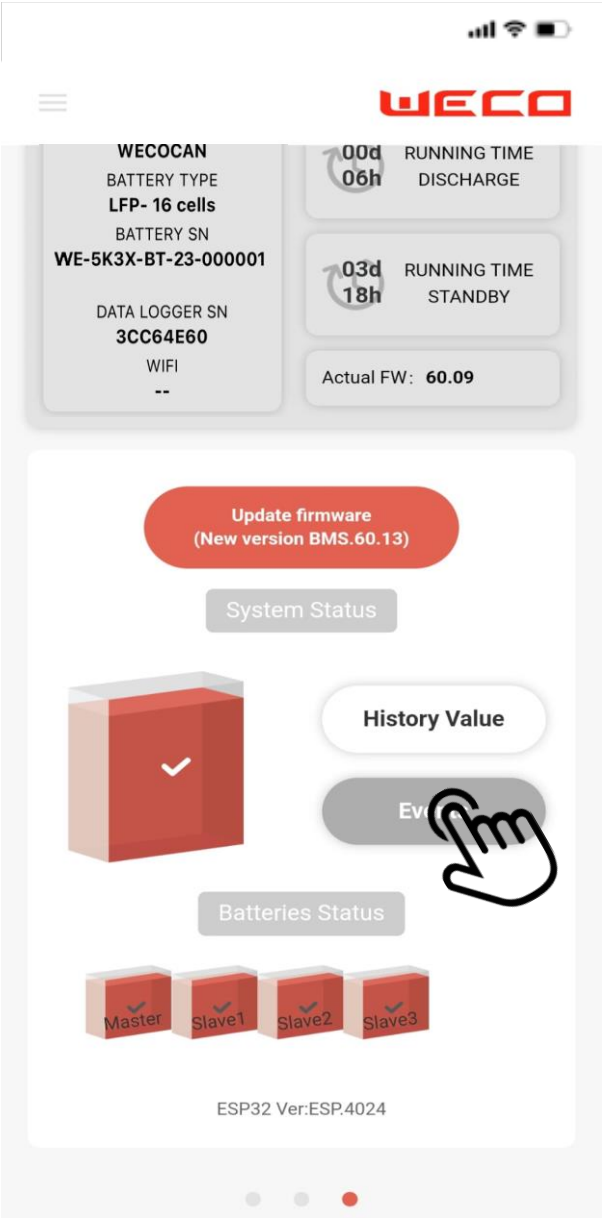
Give permission to another WeCo WiFi APP user to monitor a battery System

To add Family Member, insert the same email address used during the WeCo WiFi Registration.





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



WECOCAN

BATTERY TYPE

LFP- 16 cells

BATTERY SN

WE-5K3X-BT-23-000001

DATA LOGGER SN

3CC64E60

WIFI

--

00d 06h

RUNNING TIME

DISCHARGE

03d 18h

RUNNING TIME

STANDBY

Actual FW: 60.09

Update firmware

(New version BMS.60.13)

System Status

History Value

Events

Batteries Status

Master

Slave1

Slave2

Slave3

ESP32 Ver:ESP.4024



<BACK

Events

Upgrade

Warning

SUCCEEDED

2022-01-06 12:08

Upgrade Firmware

Upgrade request sent to

ESP.UL.4.0.0.1

SUCCEEDED

2022-01-06 22:49

Upgrade Firmware

Upgrade request sent to

ESP.UL.4003

CANCELED

2022-01-06 22:35

Upgrade Firmware

Upgrade request sent to

ESP.UL.4003

CANCELED

2022-01-06 22:31

Upgrade Firmware

Upgrade request sent to

ESP.UL.4003

CANCELED

2022-01-06 22:21

Upgrade Firmware

Upgrade request sent to

ESP.II.4001

CANCELED

2022-01-06 21:15

Upgrade Firmware

Upgrade request sent to

ESP.II.4001

CANCELED

2022-01-06 21:15

Upgrade Firmware

Upgrade request sent to

ESP.II.4001

2022-01-06

Upgrade Firmware

vConsole



<BACK

Events

Update

Warning

Recovery

2023-02-05 09:24

System

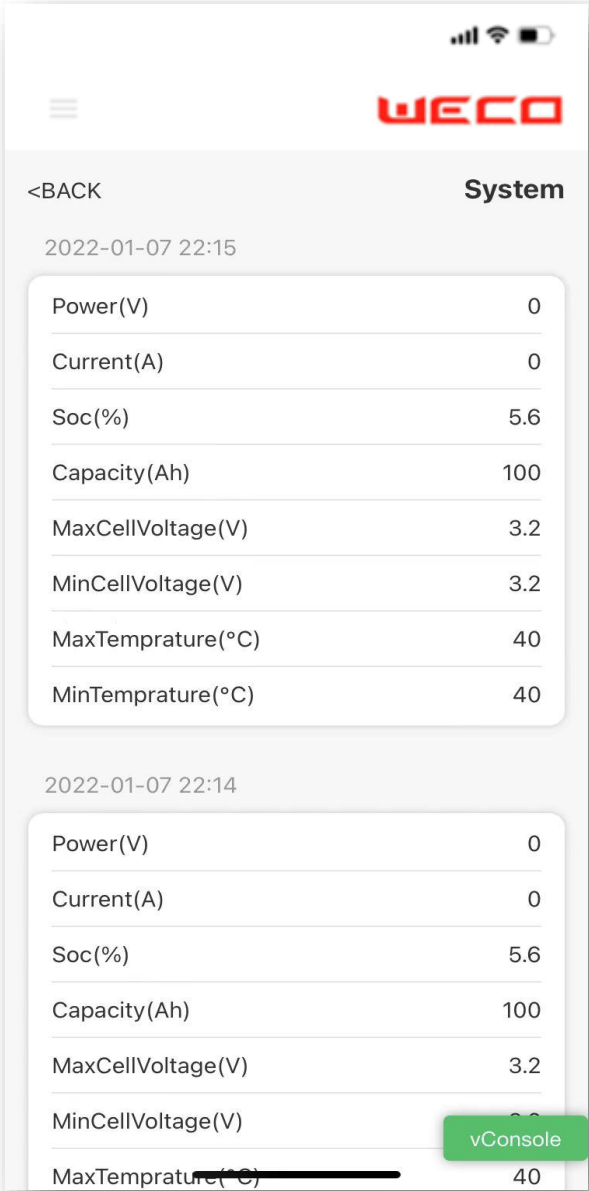
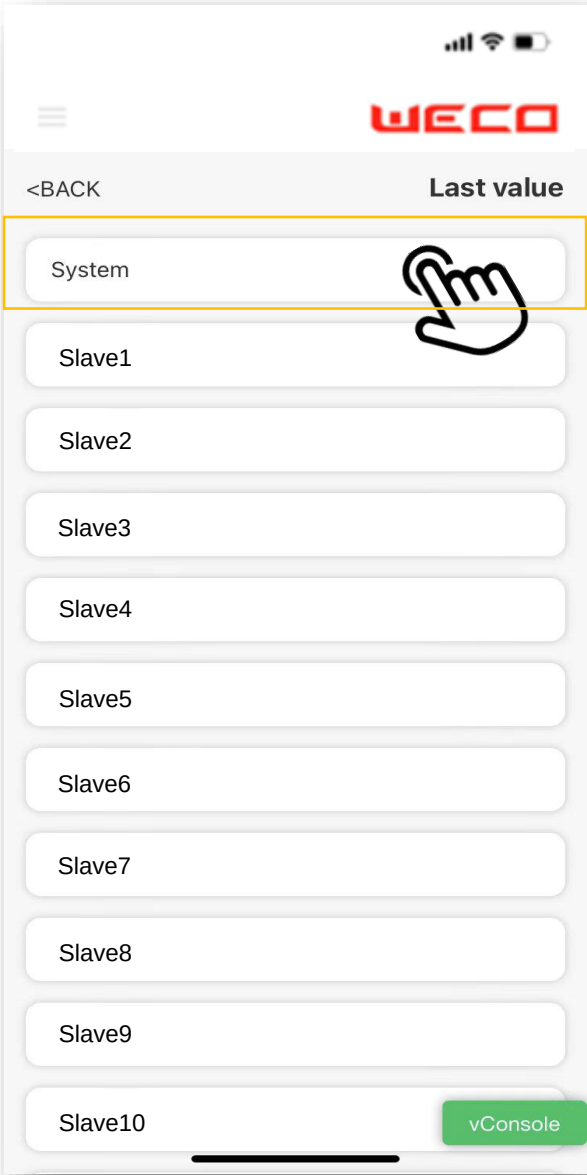
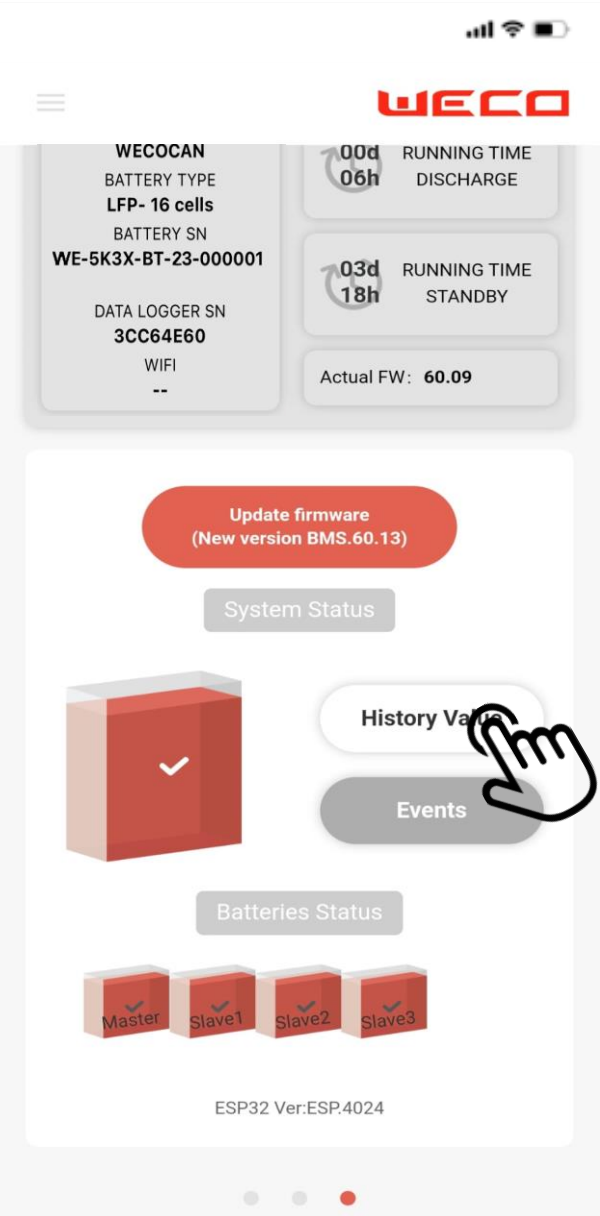
Internal Com Fault

Alarm

2023-02-05 09:15

System

Internal Com Fault



Model	WE-BTWF Module	WE-BTWF box
Size (LxWxH)	75 x 54 x 17mm	92 x 68 x 28mm
Power specification		
Rated voltage	12V	
Working voltage range	5V~15V	
Working current	When i5V, <100mA in average	
	When 12V, <50mA in average	
Power supply current	When 5V, min.300mA	
	When 12V, min.120mA	
Indicator	Green light: power light	
	Yellow/red light: communication light	
Bluetooth communication		
Bluetooth protocol	Bluetooth v4.2 BR/EDR and BLE standard	
Bluetooth Radio	Class-1、 Class-2 、 Class-3 emitter NZIF Receiver AFH Frequency hopping	
Frequency range	2402MHz~2480 GHz	
Radiated power	+9 dBm(Max.)	
Working mode	Support low power Bluetooth mode	

Model	WE-BTWF Module	WE-BTWF box
Communication		
Protocol	802.11 b/g/n	
Transmission speed	802.11 n(2.4GHz) up to 150 Mbps	
Frequency	2.4 GHz	
Frequency range	2412MHz~2472 GHz	
Radiated power	+20dBm (Max.)	
RS232 Communication		
Channel qty	1 channel	
Supported baud rate	9600, 115200bps	
Communication protocol	MODBUS	
Isolation type	Non-Isolated	
Communication interface	A2502-WV04, stitch length 2.54mm	RJ45
Environment Parameters		
Working temp.	-20℃~+70℃	
Storage temp.	-20℃~+80℃	
Environment humidity	10%~85%RH	

TERMS OF SERVICE

Declaration

This Terms of Service is made to explain our Privacy Policy and to reflect the requirements of the European General Data Protection Regulation (GDPR), offering better understanding of how our Cloud Devices manages data while using WEKO APP

WeCo, hereinafter will be referred to as “we” or “our”, and the data subject, hereinafter will be referred to as “you” or “your”.

1. Services we provide

Account Registration

You can register a unique account through the mobile phone APP (WEKO WiFi, Available on Google Play Store and Apple Store). Mobile number is not requested.

WeCo uses Servers that are located in Europe China and USA, your data will be stored in such Countries.

When you SIGN IN it will be required a valid email where we will SEND you a temporary code (OTP) that will confirm your email address within our in APP service.

Data export

You can export information of your BESS if you have a master account authorized by WeCo

Notification

You can select the option to obtain notifications on your mobile phone

2. Data Policy

Processing

We will process your data in order to provide the services above mentioned. This processing include: data collecting, recording, organizing, structuring, storing, revising, retrieving, consulting, disclosing, transmission and associated alignment or combination, restriction, erasure or destruction, by manual or automated services

Information Recording

In order to offer you the service mentioned and full fill our legal obligations under this Terms of Service, we may record and retain your information as long as you use our APP, if you decide to erase your account we will remove all the data stored from our server within 30 days.

Communication

We will notify any particular request using the email address that you register when you create your account with our APP

Security

We will take technically reasonable endeavours to ensure the security of the personal data that we collect from you.

We will also take measures to prevent security breaches and unauthorized access to your data.

a. In compliance with the General Data Protection Regulation (GDPR), we will inform you of the following information timely: basic information and possible impact of security incidents, disposal measures we have taken or will take, suggestions on how to prevent and mitigate risk and relevant remedies for you. We will inform you of the event conditions in a timely manner by email, or letter, or telephone, or push notifications, etc. In the case it is difficult to reach each user, we will publish an official announcement in a reasonable and effective way.

b. Meanwhile, we will report security incidents related to users to the authority.

c. We will take reasonable measures to ensure security of your information in case operation of our platform and/or services is ceased: the measures may include immediate termination of user information collection. A notification of service cease will be sent to you and your personal information which we’ve collected will be deleted or will undergo an anonymization process, etc.

d. If we need to use your information for a purpose not mentioned above or beyond a direct and reasonable range, we will inform you and ask for your consent before taking an action.

Notification

In case a data breach occurs, we shall notify supervisory authority about the case without undue delay and, if feasible, not later than 72 hours after discovering the incident, unless the personal data breach is unlikely to endanger personal rights and freedom.

If a data breach is most likely to endanger your right and freedom, we will notify you the case without undue delay.

3. Your rights

Access

In any moment you entitled to ask how we are processing your personal data, which data we are processing, and to whom we are sharing it and you have the right to complain to us and a supervisory authority if you believe the process breaches these Terms of Services and General Data Protection Regulation (GDPR).

Deletion

You're authorized to ask us to delete (or amend) your personal data and we have to take action without any delay if one of the following conditions applies:

- a. purposes of personal data collection and process are no longer necessarily required;
- b. the personal data have been processed illegally;
- c. the personal data have to be erased in order to comply with our legal obligations subject to Laws of European Union or its Member States.

Restriction

You have right to ask us to restrict data processing if one of the following applies:

- a. you disagree with your personal data and allow us to verify the data accuracy within an agreed period;
- b. the data processing is illegal and you oppose to the process or request usage restriction;
- c. personal data is no longer needed for processing purposes, but still useful, under your requirement, for establishing, exercising or defending your legal claims.

Objection

You have the right to object to processing your personal data and we will take your request into account. In order to properly assess whether we have to continue the process due to an available compelling legal interest or due to dealing of legal claims, we shall understand the reasons of your objection.

4. Your Commitments

(1) You hereby agree that we may process your personal data in order to provide you the services described above (Article 1), while you shall also reserve the right to recall your agreement at any time. This recall shall not affect the effectiveness of data processing before recalling.

We have the right to terminate these Terms of Service if you disagree with these terms or recall your consent at any time.

(2) You agree that we may disclose your personal data to other device manufacturer and installer, at our sole discretion, for providing you better service.

(3) You agree that you will not engage in any behaviour that may interfere with the proper functioning of our system and will not take any action that may undermine your data security according to our understanding.

(4) You acknowledge and agree that any liability, claim and lawsuit that may be incurred to us will be waived, as long as your data are properly used according to this Terms of Services.

(5) You acknowledge and agree that some information you provided will be transferred to, stored and processed in the country where we, our affiliates, or our sub-contractors reserve facilities for the Services. This may be subjected to a different jurisdiction from the country where you reside.

(6) You acknowledge and agree that any oversea data transfer or processing is necessary and always under your consent. You also agree us to process, on your behalf, your information pertaining to the Terms of Services.

(7) You acknowledge and agree that we have the right, at our sole discretion, to remove, modify or reject any content of the APP.

5. Service and Service interruption and cancellation

Unless otherwise stated in the terms and conditions of the relevant Services, under no circumstances, we shall be held liable for any delay or failure or disruption of the content or the Services that is resulted directly or indirectly from acts of nature, forces or causes beyond our reasonable control, including but not limited to, Internet failures, computer viruses, cyber-attacks, failure of telecommunications or any other equipment, electrical power failures, strikes, labour disputes, riots, insurrections, civil disturbances, shortages of labour or materials, fires, flood, storms, explosions, acts of God, war, governmental actions, orders of domestic or foreign courts or tribunals or non-performance of any third parties.

The WeCo's APPs are offered free of charge and the remote monitoring system is offered without limitations. WeCo can decide to interrupt or suspend the remote monitoring App anytime giving 30 days' notice to the user registered email.

6. Governing Law and Dispute Resolution

The Terms shall be governed by the laws of the Italian Republic, Court of Firenze.

7. Complaints

In the event that you would wish to make a complaint about how we process your personal information, please contact our Data Protection Officer at rdp@wecobatteries.com and we will take any reasonable effort to deal with it.

8. Notification of Changes

We reserve the right to modify these Terms of Services at any time, so we could ask you to often review it. We will notify you of any change via email or in APP notification.



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