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# Destination Charging – Terra AC Wallbox

Smart Mobility

Technical presentation ChargerSync™ App

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# Contents

- Installation and configuration.



# Destination Charging

ChargerSync™ App

# Terra AC wallbox

## ChargerSync™ App

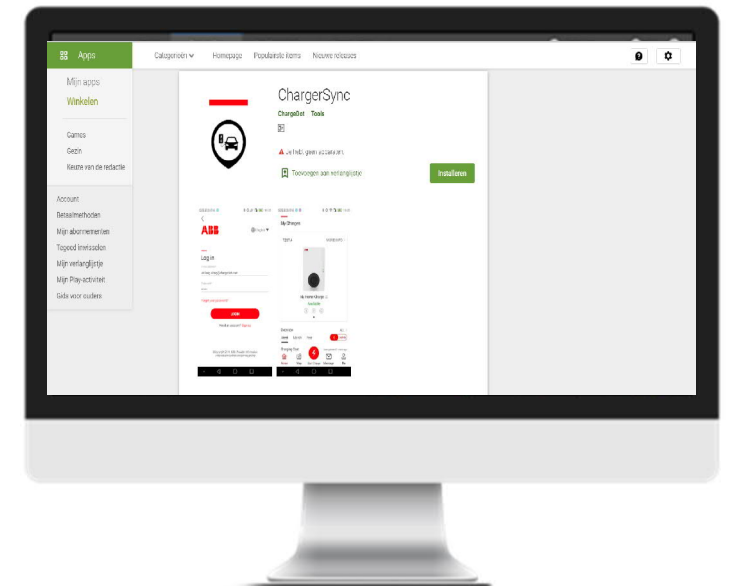
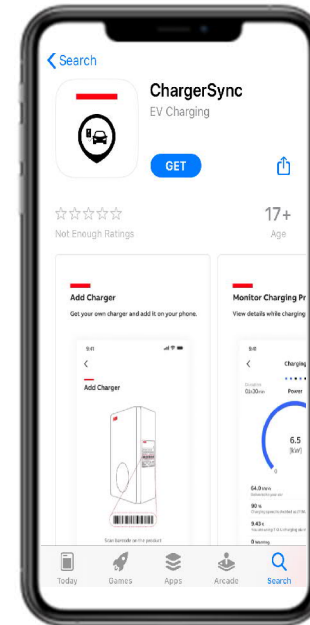
### Where to find the ChargerSync™ App?

- This application is made available.

The Terra AC wallbox app ChargerSync™ is made available via the [Google Play](#) & Apple Store to download and install on the “Smart” device Phone or Tablet.



- So, this app will have to be downloaded and installed first.
- Create a username and password and enter them.

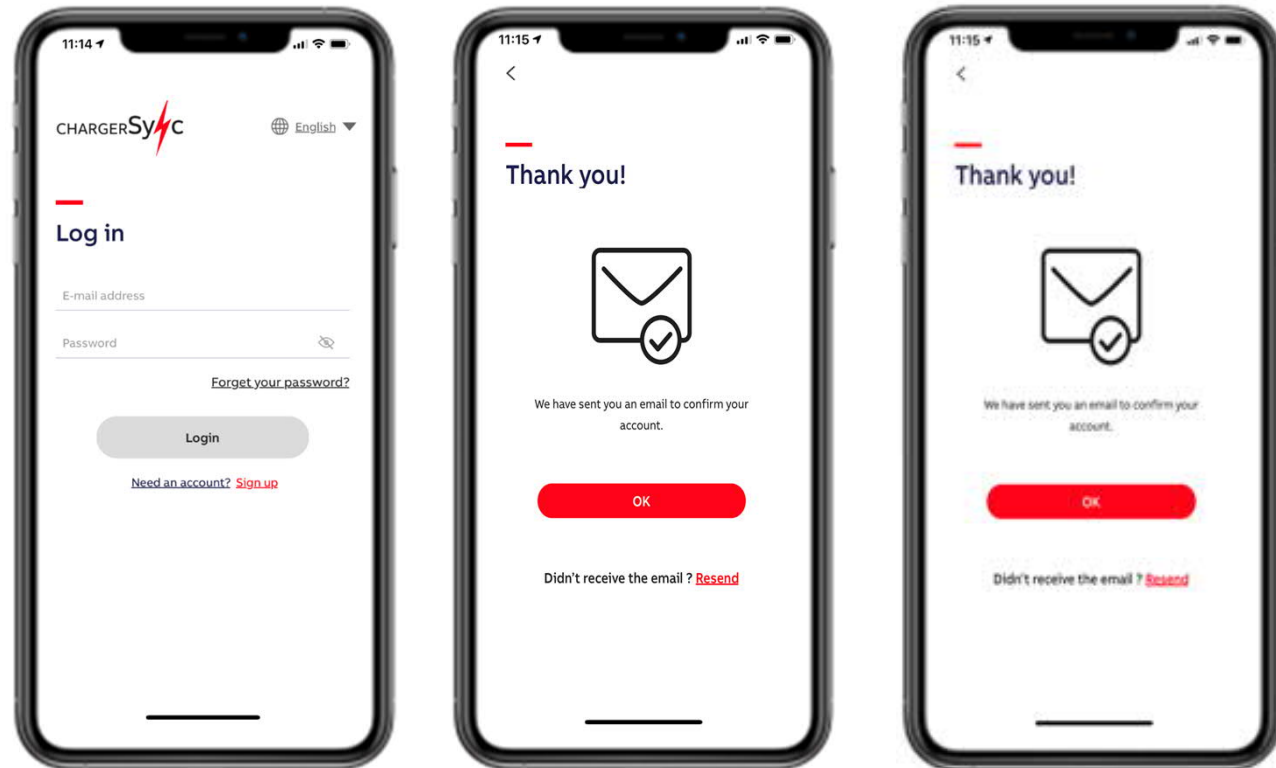


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## ChargerSync™ App

### Create your account in the app + login

- New user: Select "Sign up".
- Enter a username.
- An email address
- Create a password
- And confirm the same password again
- Check the 'Policy & Terms
- And send the request now

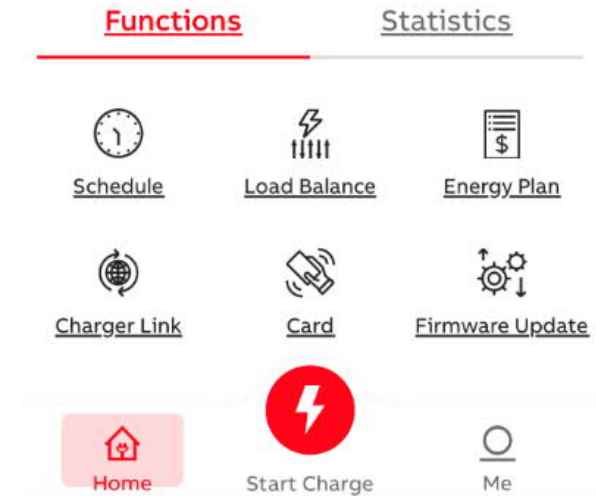
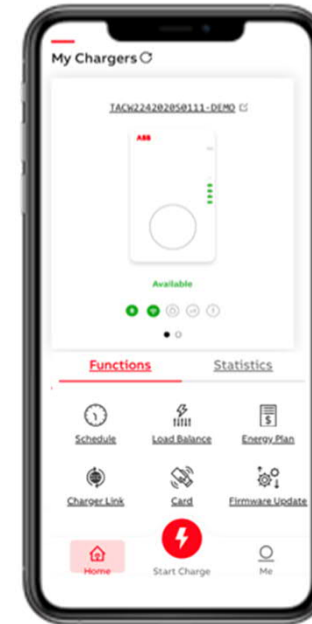


# Terra AC wallbox

## ChargerSync™ App

### "Home screen"

- Start screen overview:
  - Adding a charger "Add Charger" (and disconnecting a charger)
  - Schedule "Schedule"
  - Manage "Load Balance" - adjust to static power limit
  - Energy plan "Energy Plan" where the price per kWh can be set
  - Network connectivity options "Charger Link"
  - Add RFID "Card"
  - Firmware "Firmware Update" Update
  - Start screen "Home" button
  - Start loading "Start Charge"
  - In "Me" additional option....

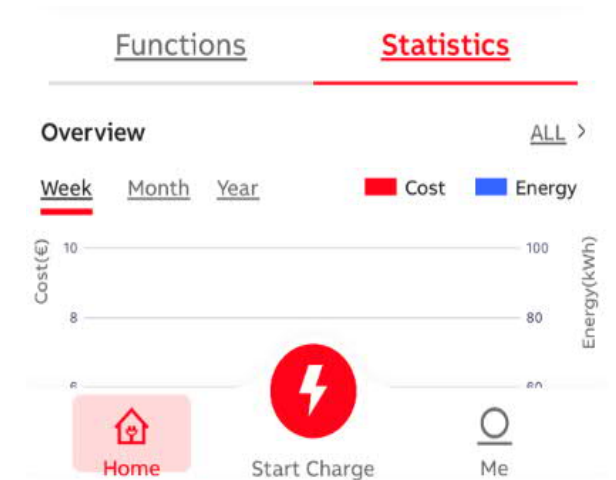
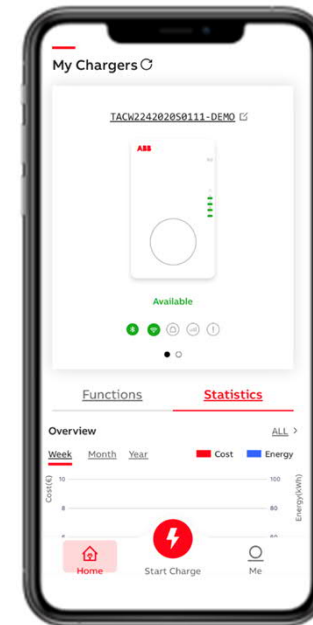


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## ChargerSync™ App

### "Home screen"

- Statistics (which will follow later):
  - Overview of the loading sessions
  - The different loading activities both public and private
  - And load trends overview



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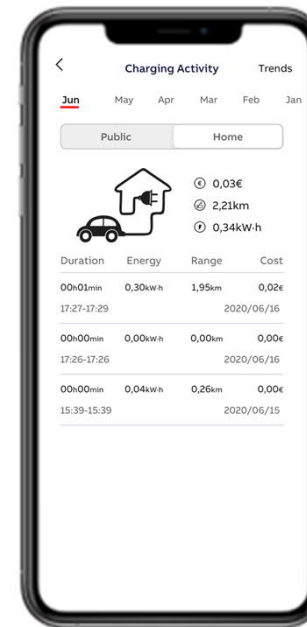
## ChargerSync™ App


### "Home screen"

- Start screen overview: Statistics (which will follow later):  
The "Charging Activity" screen has different information available for each loading session, both public and private.

- "Duration" the loading time of this session
- "Energy" the charged power of that session
- "Range" the possible range with that charging session.

These are stored per month and can then be consulted



Jun				May	Apr	Mar	Feb	Jan
Public				Home				
				€ 0,03€ 2,21km 0,34kW·h				
Duration	Energy	Range	Cost					
00h01min	0,30kW-h	1,95km	0,02€					
17:27-17:29			2020/06/16					
00h00min	0,00kW-h	0,00km	0,00€					
17:26-17:26			2020/06/16					
00h00min	0,04kW-h	0,26km	0,00€					
15:39-15:39			2020/06/15					



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## ChargerSync™ App

### "Home screen"

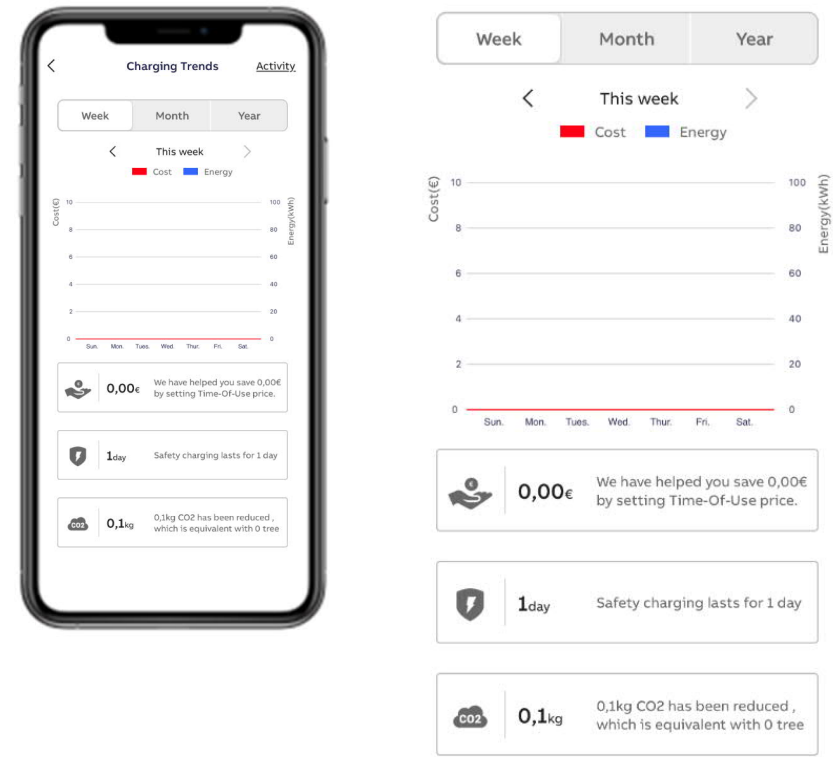
- Start screen overview: Statistics (which will follow later):  
The "Charging Trends" screen overview with more details of the "Cost" and "Energy" in a graph and in an overview of:

- Week
- Month
- Year

In addition, there is also available such as the cost saving when you have charged when prices for energy are low.

The number of safe charging sessions

And the CO2 saved when driving electrically



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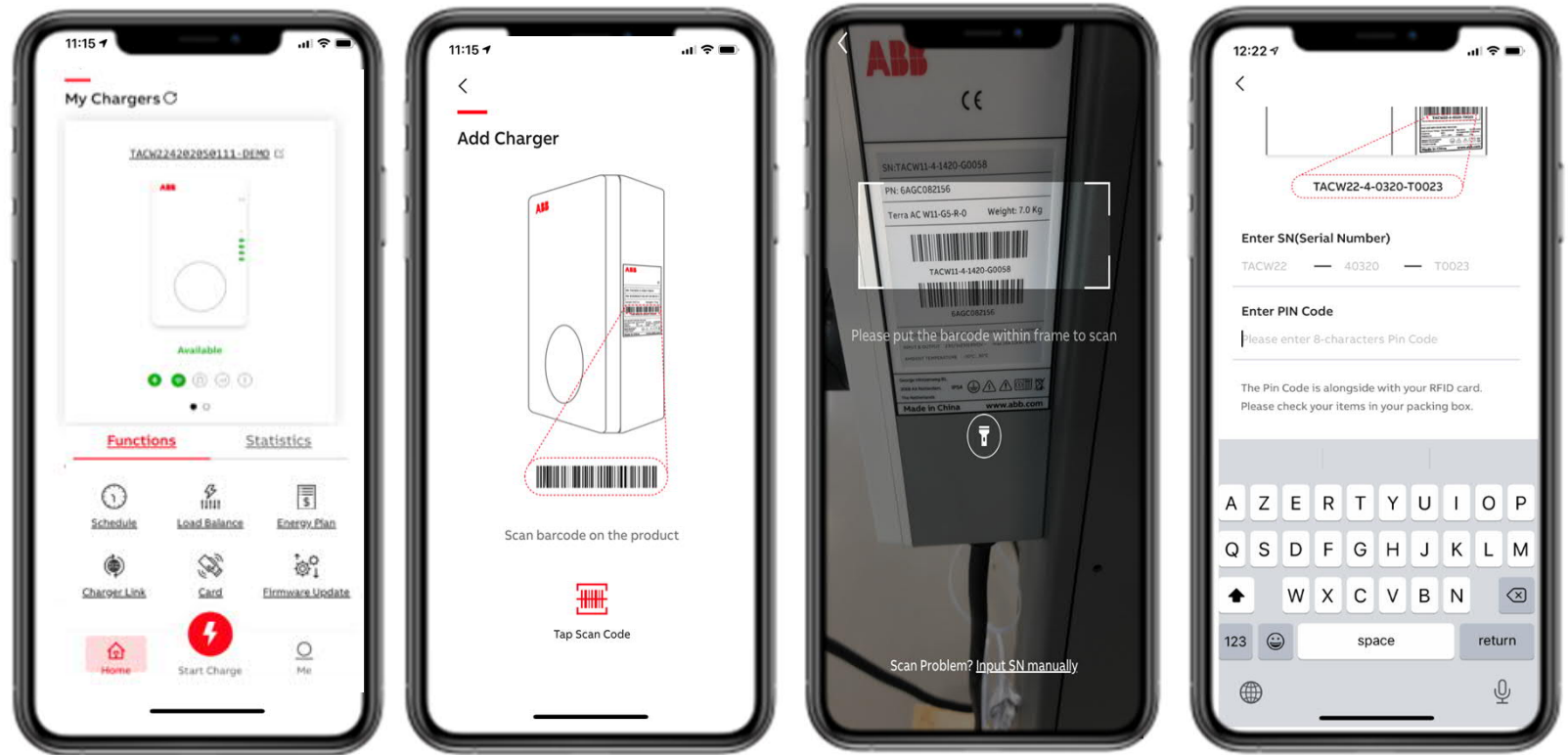
## ChargerSync™ App

### "Add Charge"

New user: Select "Add Charger".

- Scan the barcode on the product or enter the serial number of the product manually.
- And the Pin Code that is included with each charger and is in the packaging or with the RFID card.

Note: do not lose this Pin code! To retrieve the Pin code, you need to create a ticket through the EVCI service team.



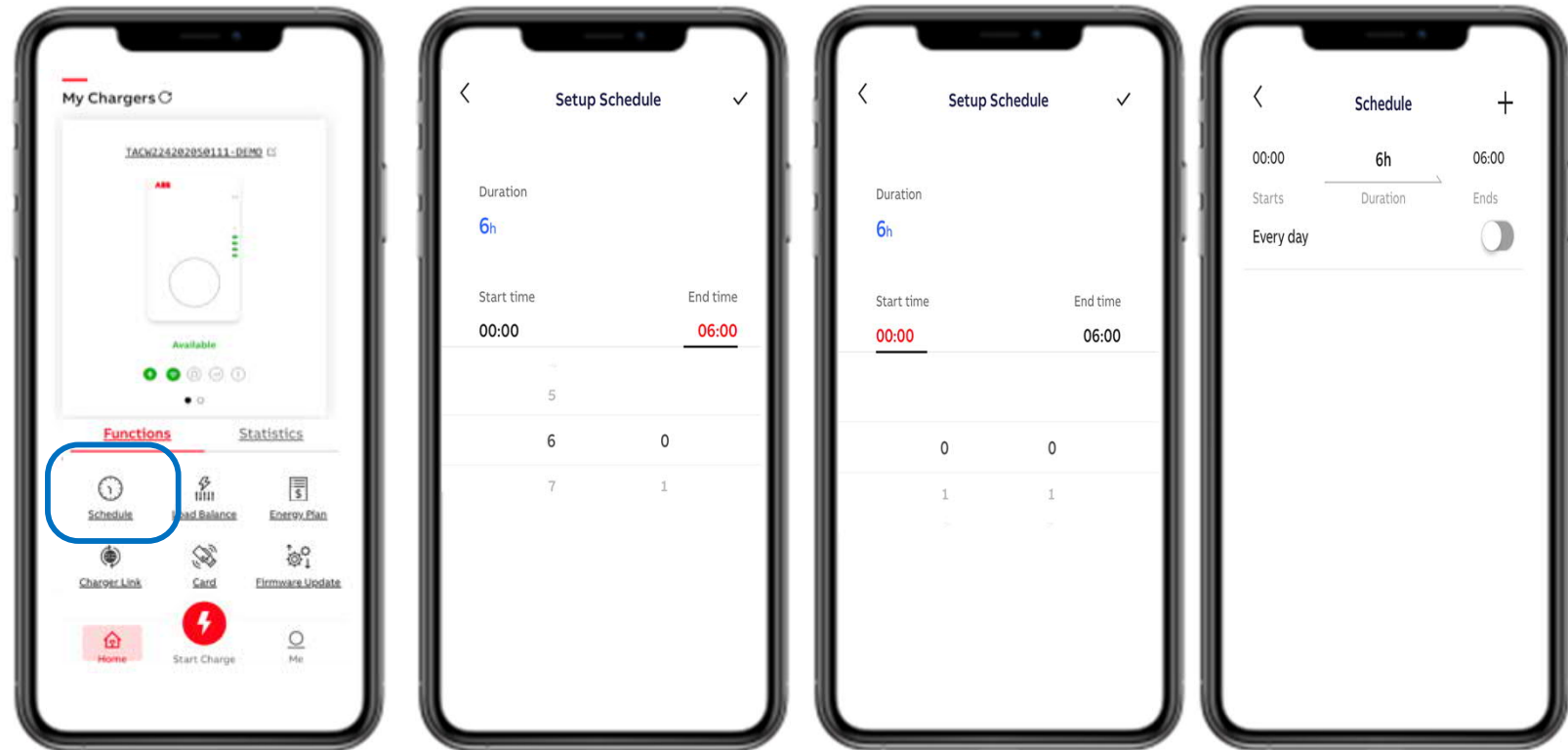
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## ChargerSync™ App

### "Schedule"

Scheduling "Schedule" allows you to set a specific loading time(s) to start a delayed loading session.

- Free access mode because no authorization is required when using Schedule.



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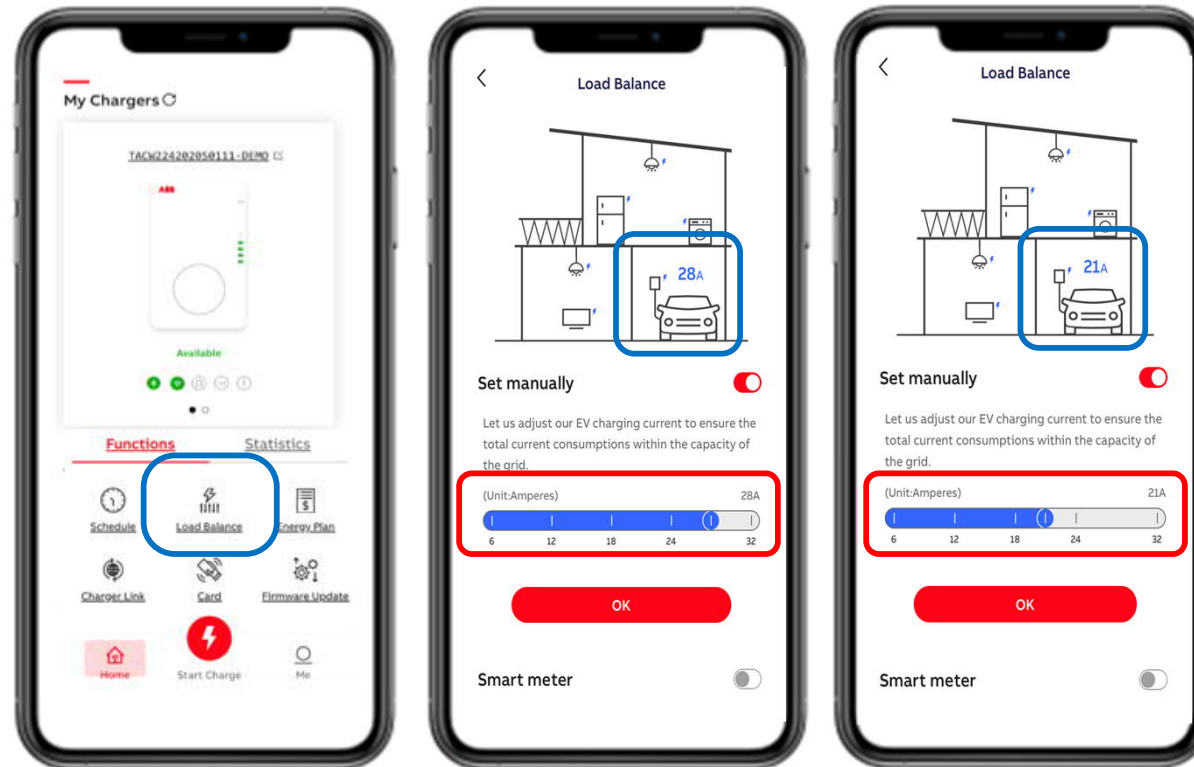
## ChargerSync™ App

### "Static Load Balanncce"

Load Balance can be used to set a user-selected power limit. The 'Manual setting' option is pre-selected. The 'Smart Meter' option will be released later.

- By sliding the blue dot in the bar, the desired percentage can be set.
- Confirm with 'OK'.

To reduce energy costs in the peak period.



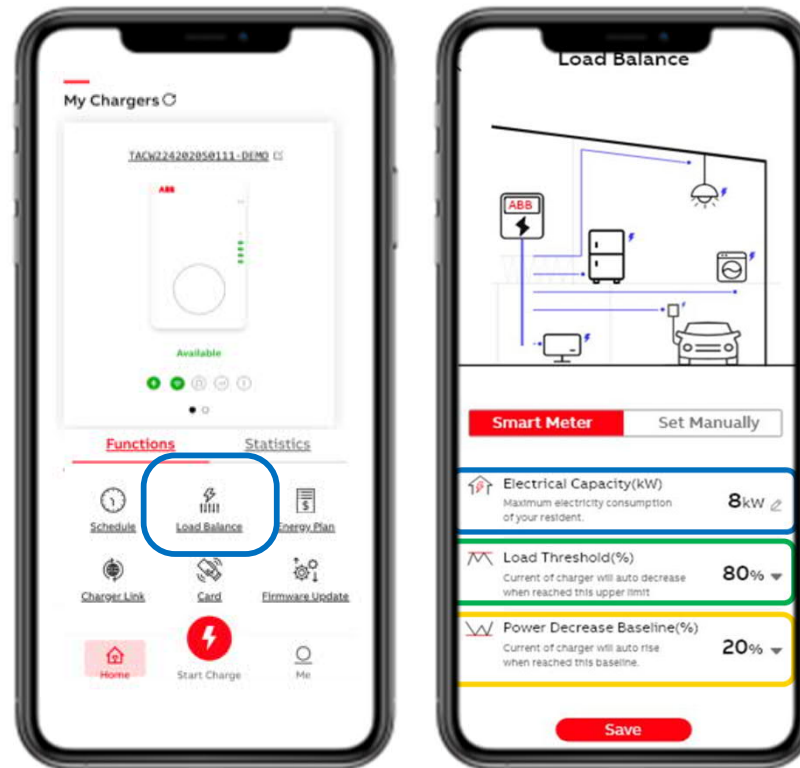
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## ChargerSync™ App

### "Dynamics Load Balance"

Dynamics Load Balance can be used and set with the 'Smart Meter' option. In that case is the smart meter the 'Master' and the Terra AC wallbox the 'Slave'.

- By selecting the 'Smart Meter' option in the application



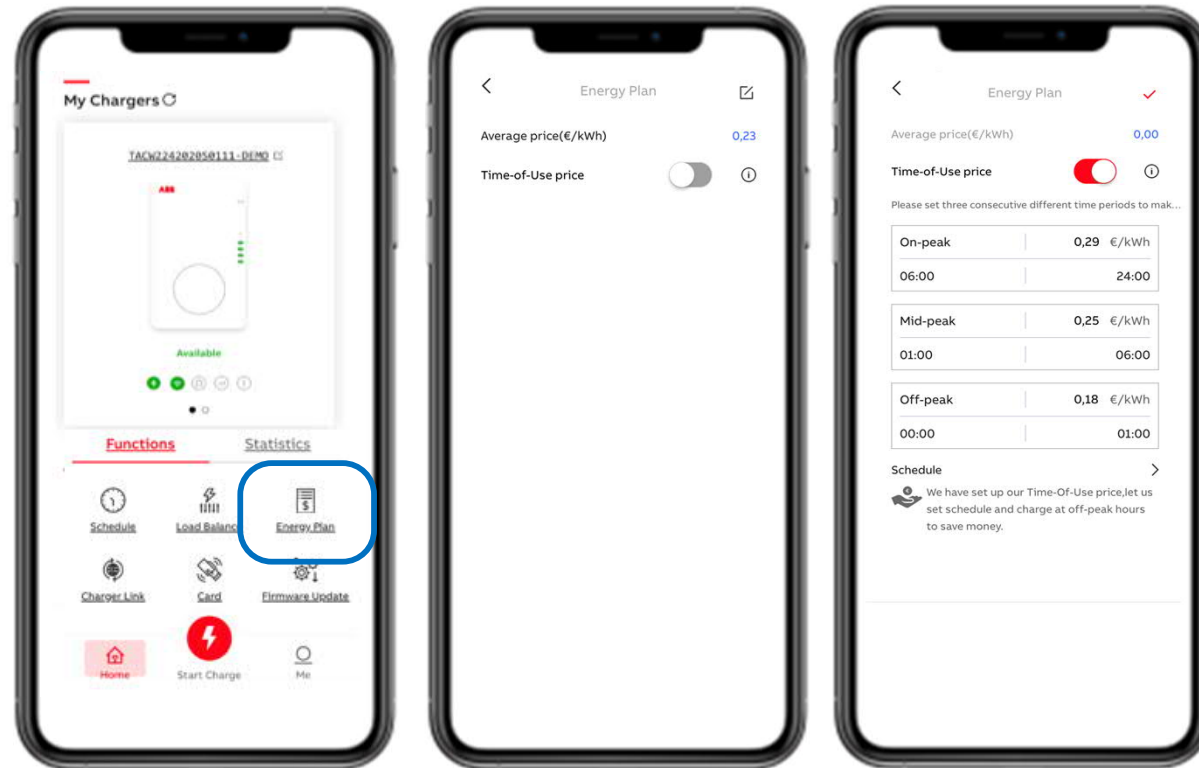
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## ChargerSync™ App

### "Energy Plan"

With the Energy Plan, the price per kWh can be determined and used for own energy monitoring.

*Other currencies and usage prices will be released later.*



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## ChargerSync™ App

### "Charger Link"

With 'Charger Link' the connectivity option can be selected between loader and ABB server backend. The available connectivity options depend on the model of the loader.

Options are LAN, WIFI, 4G (optional depending on version selected)

*The Charger Link feature in the Charger Sync app that is currently not supported will be released later.*



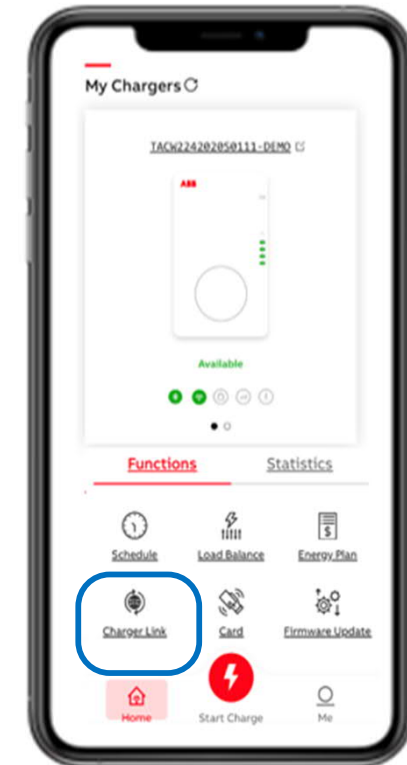
LAN = via ethernet cable (Plug & Play)



WIFI = settings can be configured via the TerraConfig App



4G = with (Nano) SIM cards work automatically or can be configured in another way via the TerraConfig App



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## ChargerSync™ App

### “Charger Link”

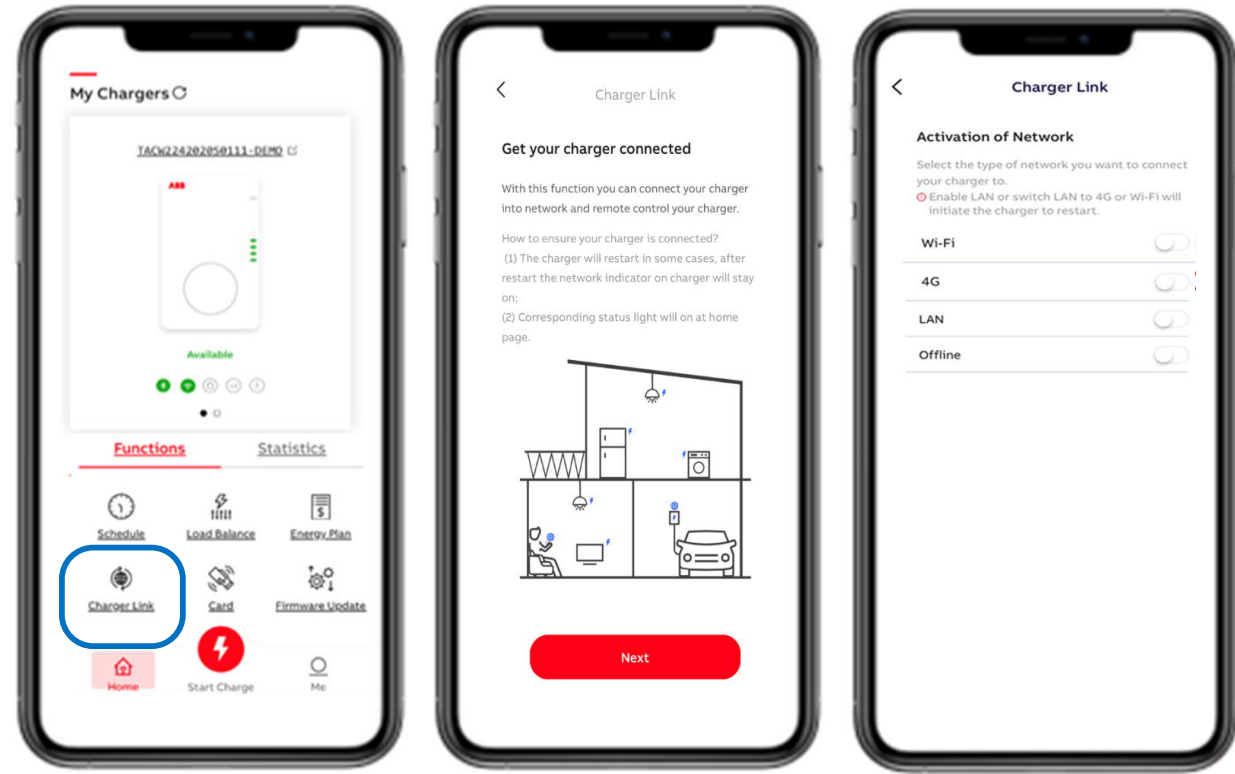
Select this connectivity option:

WIFI = settings will need to select the local network and specify the password..

4G = Again, additional configuration such as APN, Username and password will need to be done.

LAN = via the Ethernet cable Plug & Play and no further configuration is needed.

OFFLINE = if we check this, there is no connection to the Internet and the Internet connection LED will also be off.





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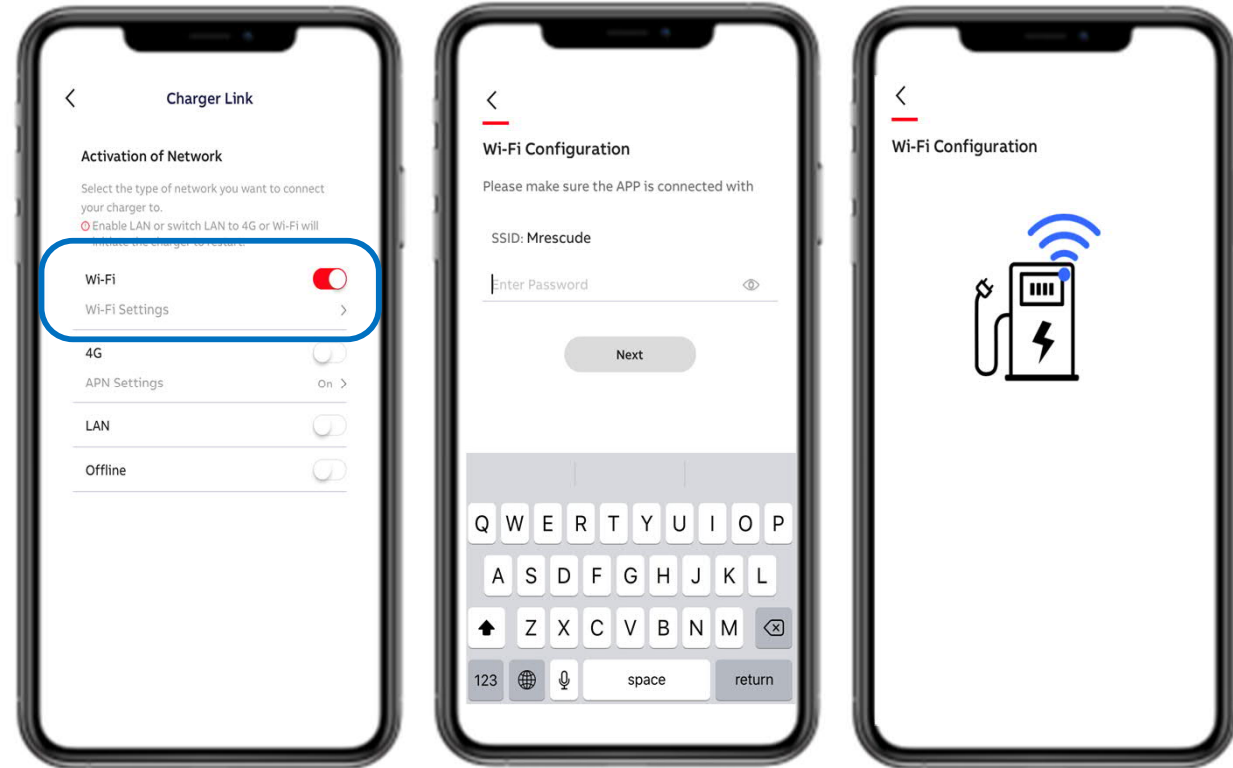
## ChargerSync™ App

### “Charger Link – WIFI-connection”

Before you can configure the charger's WIFI connection, the smartphone must first be connected to the selected WIFI network.

- Turn on WIFI and press WIFI Settings
- SSID shows the connected WIFI network
- Enter the WIFI password and press 'NEXT'.
- The charger is connected\* to the WIFI network.

\*Attention this may take some time

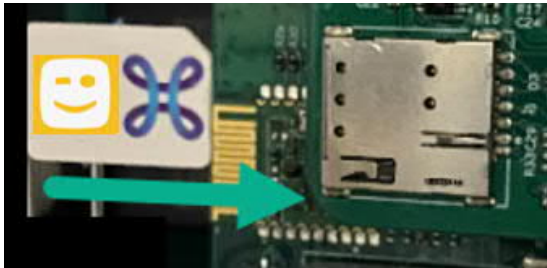


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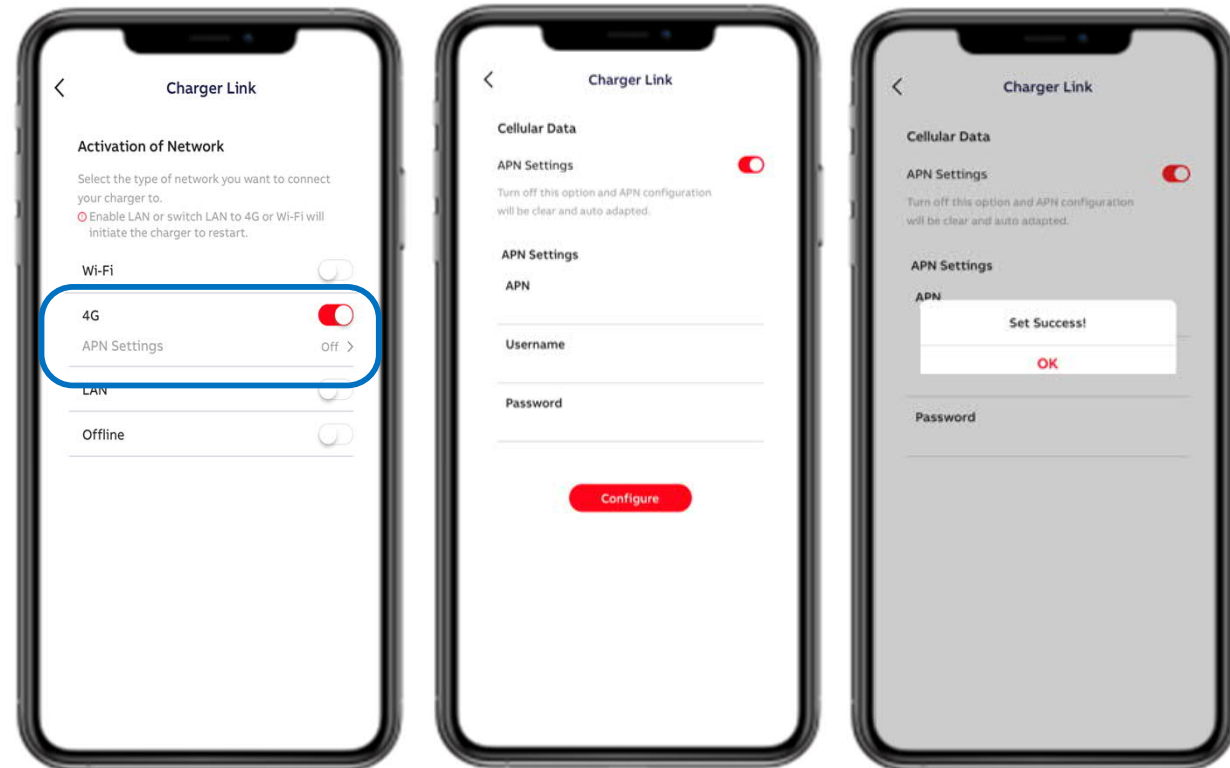
## ChargerSync™ App

### “Charger Link – 4G-connection”

To configure the charger via a 4G GSM data sim (type M2M\* Nano version) it must be placed correctly.



- Switch 4G and select the "APN Setting".
- Enter the necessary settings such as "APN, Username and Password" (best to coordinate with your provider) and press "Configure".
- The charger is connected via the 4G mobile network

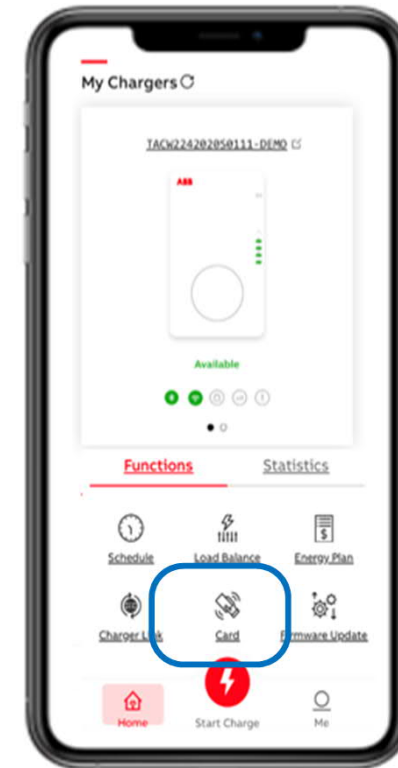


# Terra AC wallbox

## ChargerSync™ App

### "Card"


With 'Card' one can manage the RFID cards for this charger. This way only the people with such RFID card can log in and use the charger.



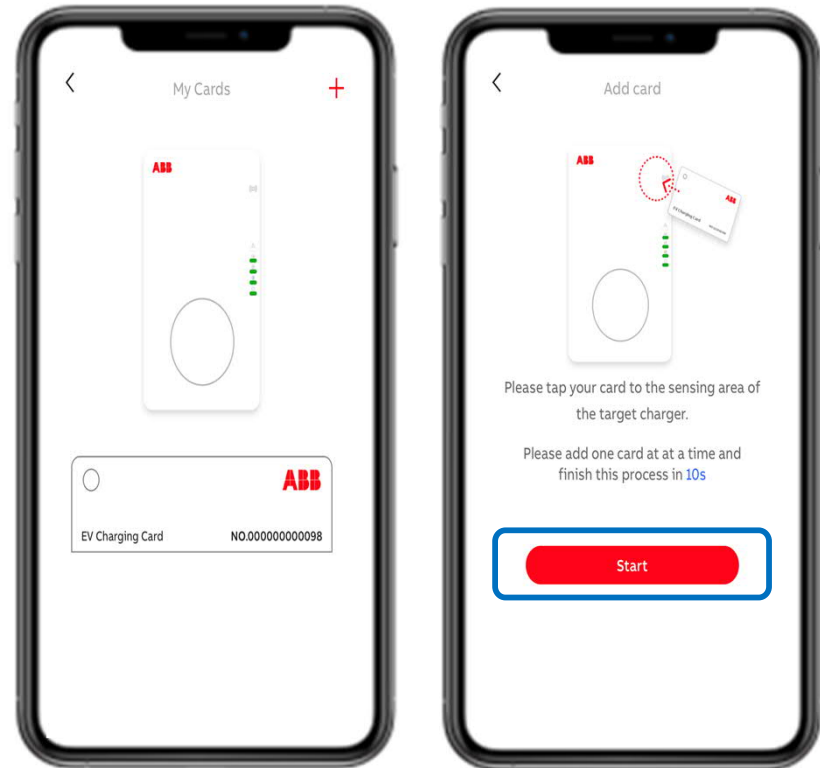
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## ChargerSync™ App

### "Card"

- Now go to the "Add Card" function in the app.
- Place the RFID card near the symbol  on your AC wallbox.
- Status display: Shows the "Binding..." status in the process of linking the RFID card.
- The indication will be shown when the "Binding" process is completed and confirmed.
- When adding the card via ChargerSync App the card will be an offline card.
- The offline card is stored in the memory of the charger. The charger can be offline authorized.

*Card(s) on the ChargerSync App can not be blocked or deleted.*



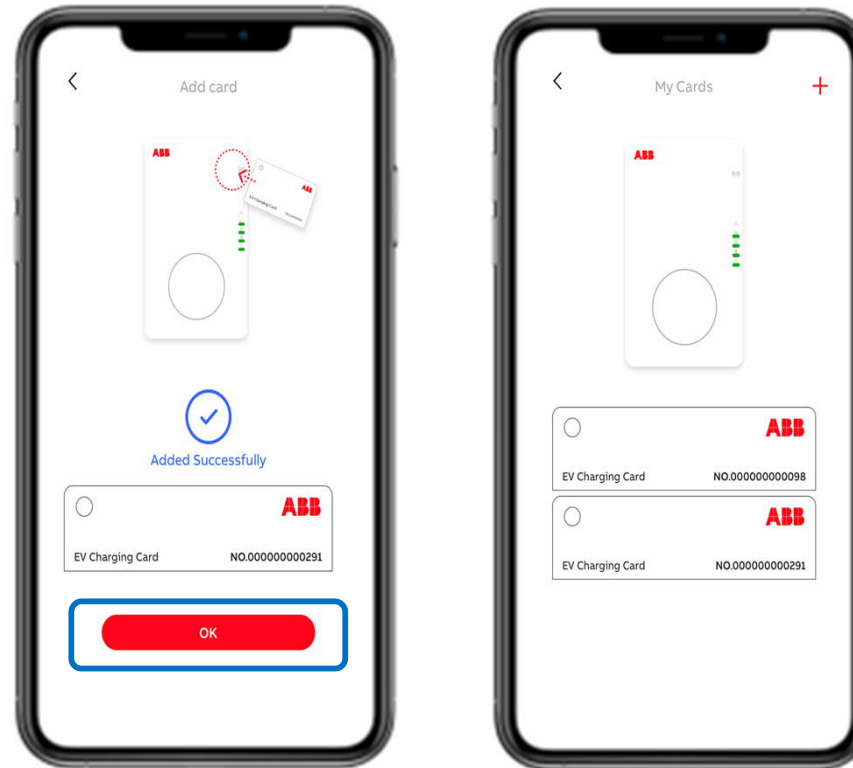
# Terra AC wallbox

## ChargerSync™ App

### "Card"

- The indication will be shown when the "Binding" process is completed and confirmed with OK.

You will therefore have an overview of the RFID cards that have been added to this AC wallbox.



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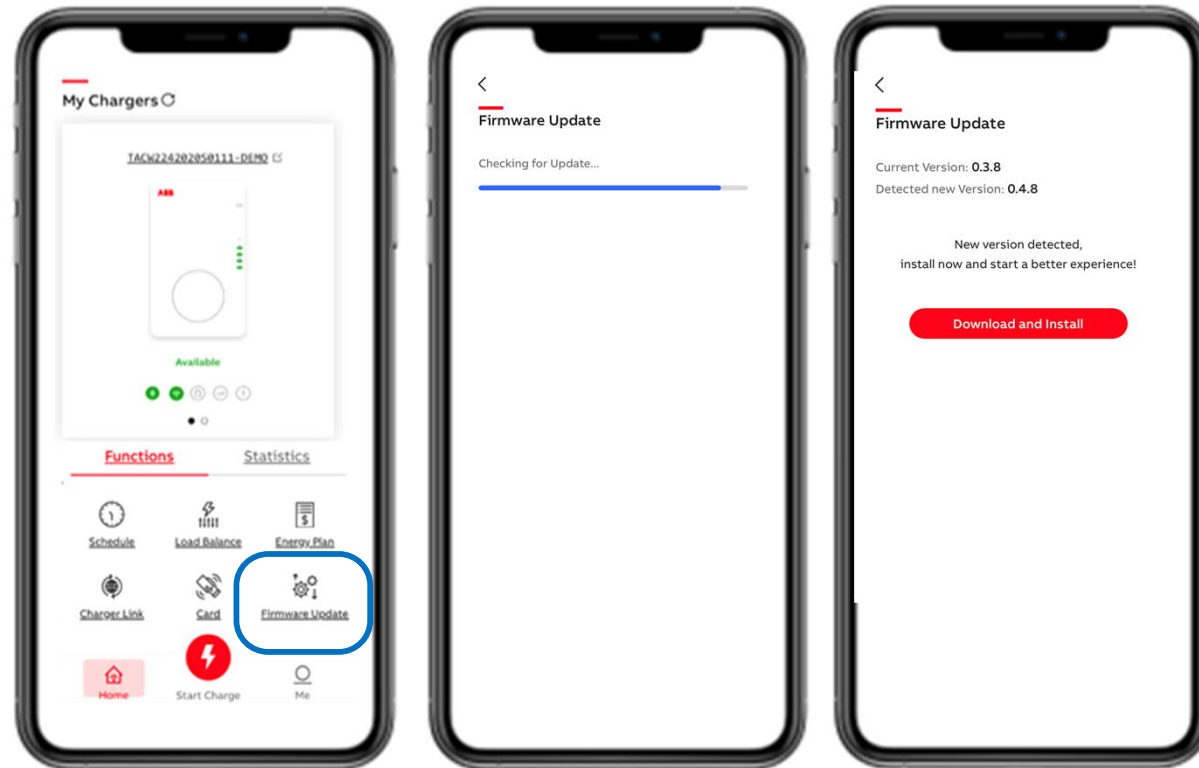
## ChargerSync™ App

### "Firmware Update"

With the 'Firmware Update' one can check whether the charger has the latest available version.

- First, we will check which version is available.
- Update takes +/- 5 min.
- Keep the charger and the phone switched on during the update
- Keep Bluetooth connection and phone network settings untouched

NOTE: Do not upgrade while charging



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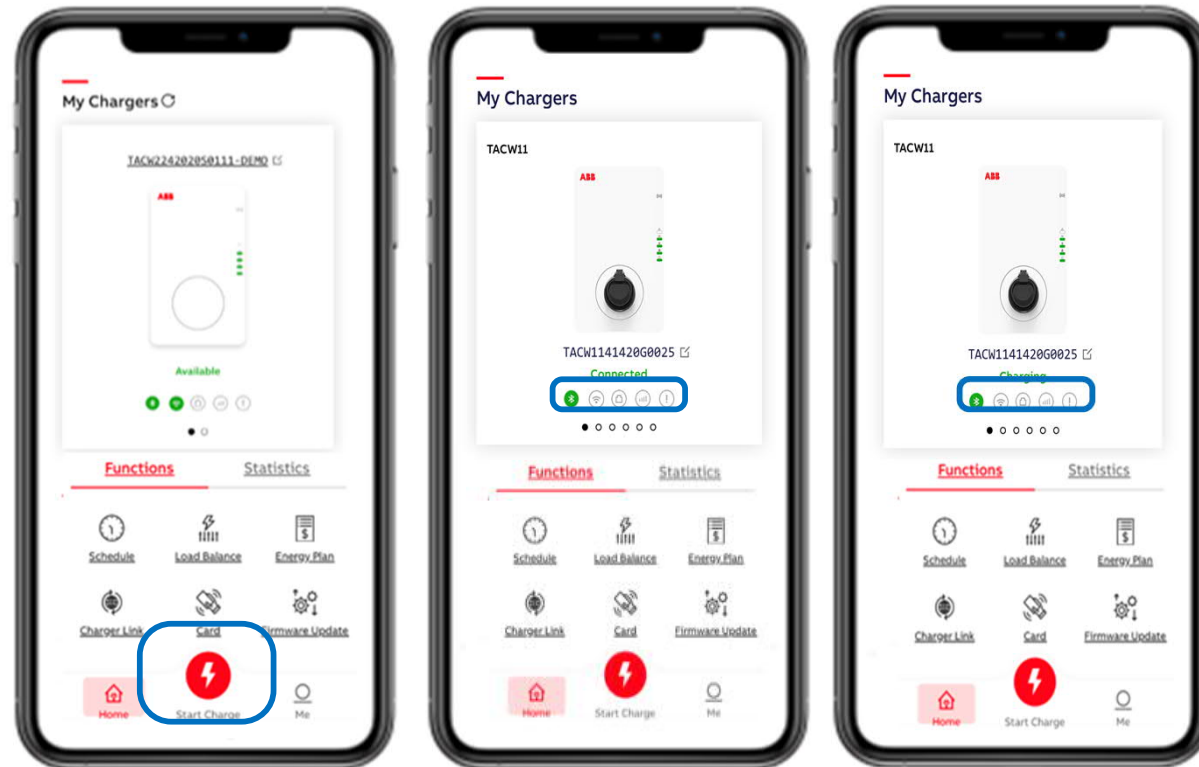
## ChargerSync™ App

### "Start - Charging"

When connecting the charger to the EV, the status bar changes from 'Available' to 'Connected'.

The charging session can be started via the red 'Start Charge' button.

The charging session will start after a quick check between the charger and the EV (seconds). The status bar will change from 'Available' to 'Charging'.



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## ChargerSync™ App

### “Charging Monitoring Data”

With 'Charging' one gets extra screens that become visible with additional information such as: Current, Power and Voltage .





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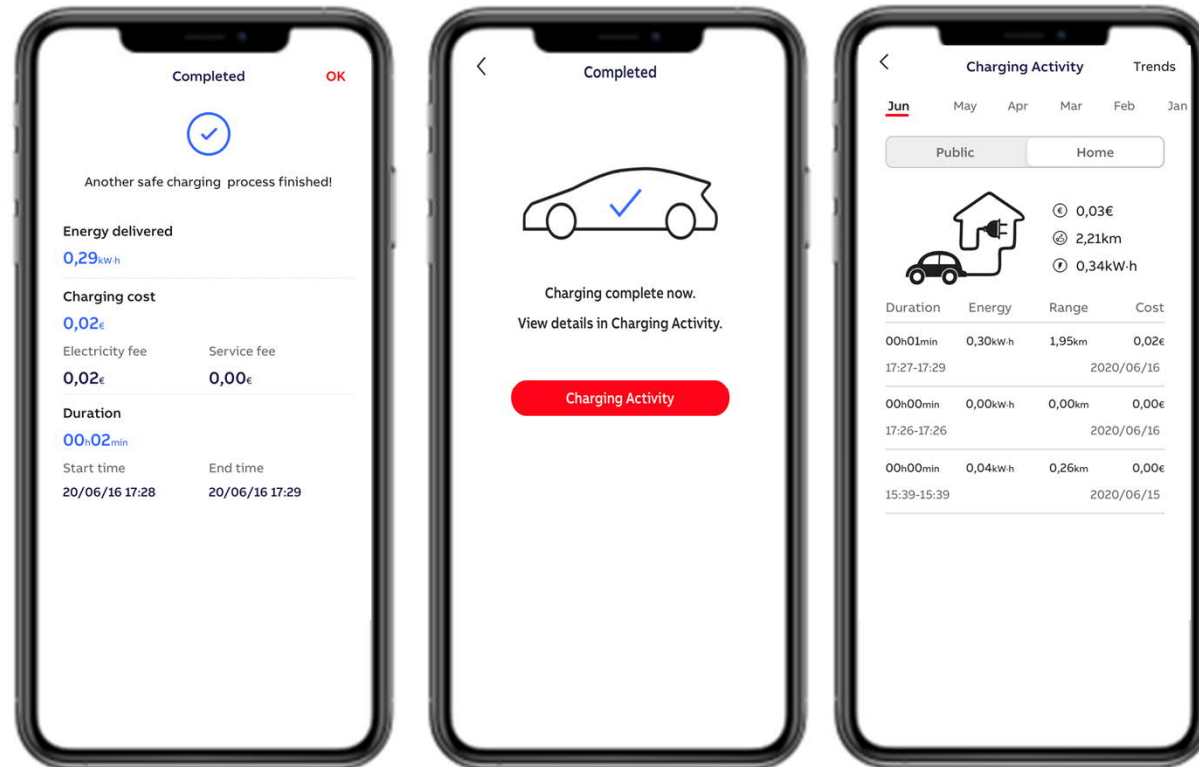
## ChargerSync™ App

### "Charging Complete"

To stop the charging session, the red '**stop**' button can be used. The status bar changes to '**Charging Complete**'.

Charging session details are shown in 'Completed'.

All charging sessions can be found with '**Charging Activity**'.



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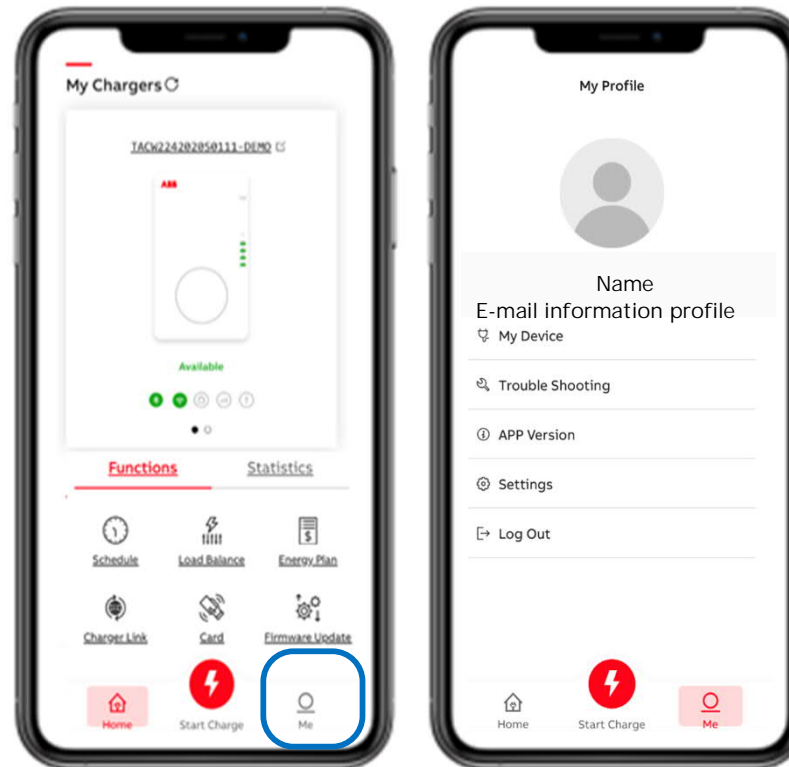
## ChargerSync™ App

### "Me – User Account "

The details of the user account can be found in 'Me'.

- 'My Devices'
- 'Trouble Shooting' (not yet implemented)
- 'APP version' About ChargerSync
- 'Setting'
- 'Log Out'

Also, the option to log out of the user account.



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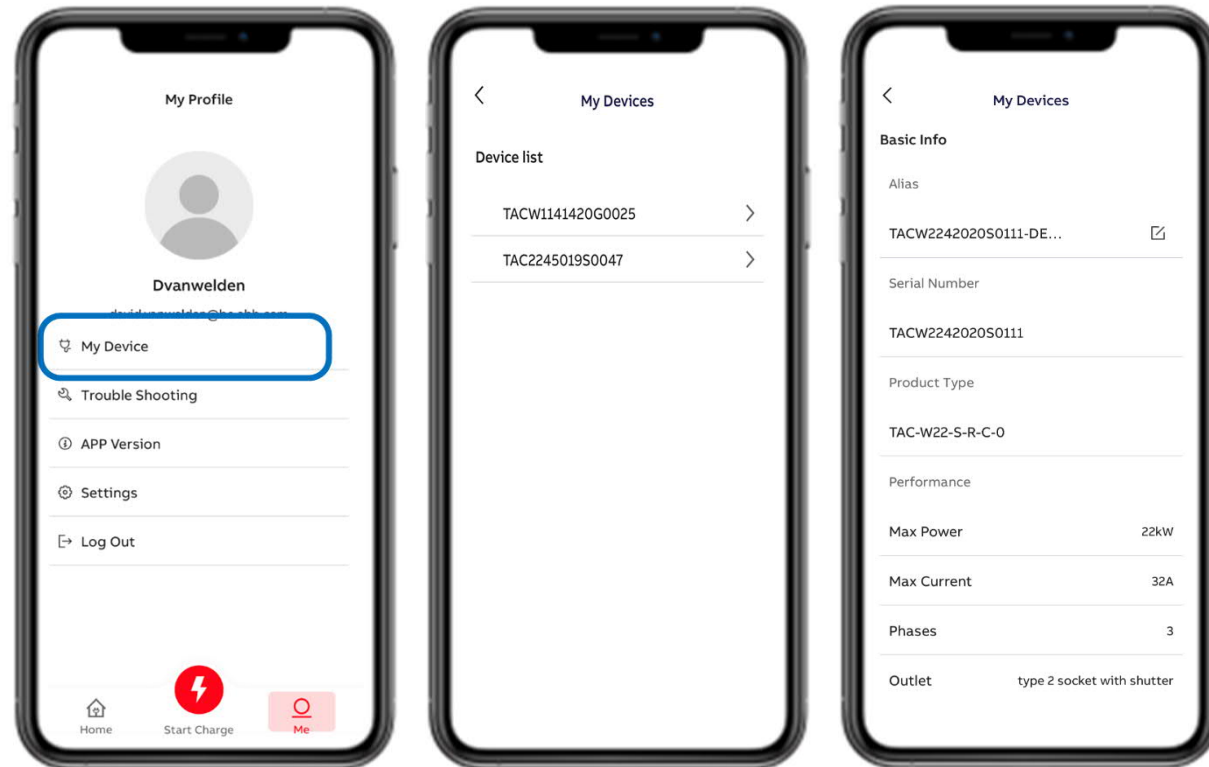
## ChargerSync™ App

### "Me – Device list"

In 'My Device' you can find the list of the user account's own devices.

When selecting one of the chargers, the following screen shows an overview with "Basic info" about this charger such as:

- Alias
- Serial Number
- Product type
- Performance
- ...
- Pin Code



# Terra AC wallbox

## ChargerSync™ App

### "Me – Device – Pin Code"

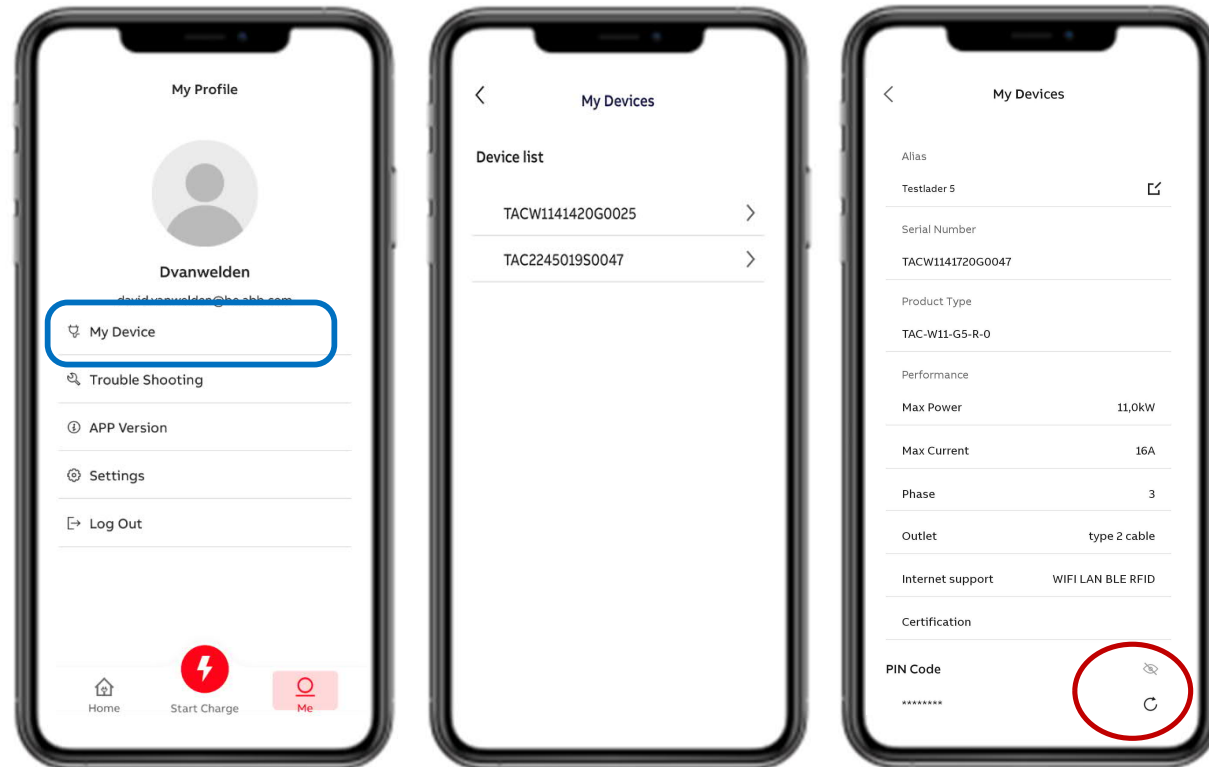
If you are already bound to your charger via ChargerSync APP and you have lost the pin code, there is a way to restore it.

On ChargerSync APP, go via "Me" to "My Devices" and click on your charger.

At the bottom you will be able to find your current pin code and change it, if needed.

How to change it: Click on the arrow icon

Warning: Once you change it, the previous pin code will not work anymore!



# Terra AC wallbox

## ChargerSync™ App

### “Me – Unbind – the Charger”

In 'My Device' you can find the list of the user account's own devices.

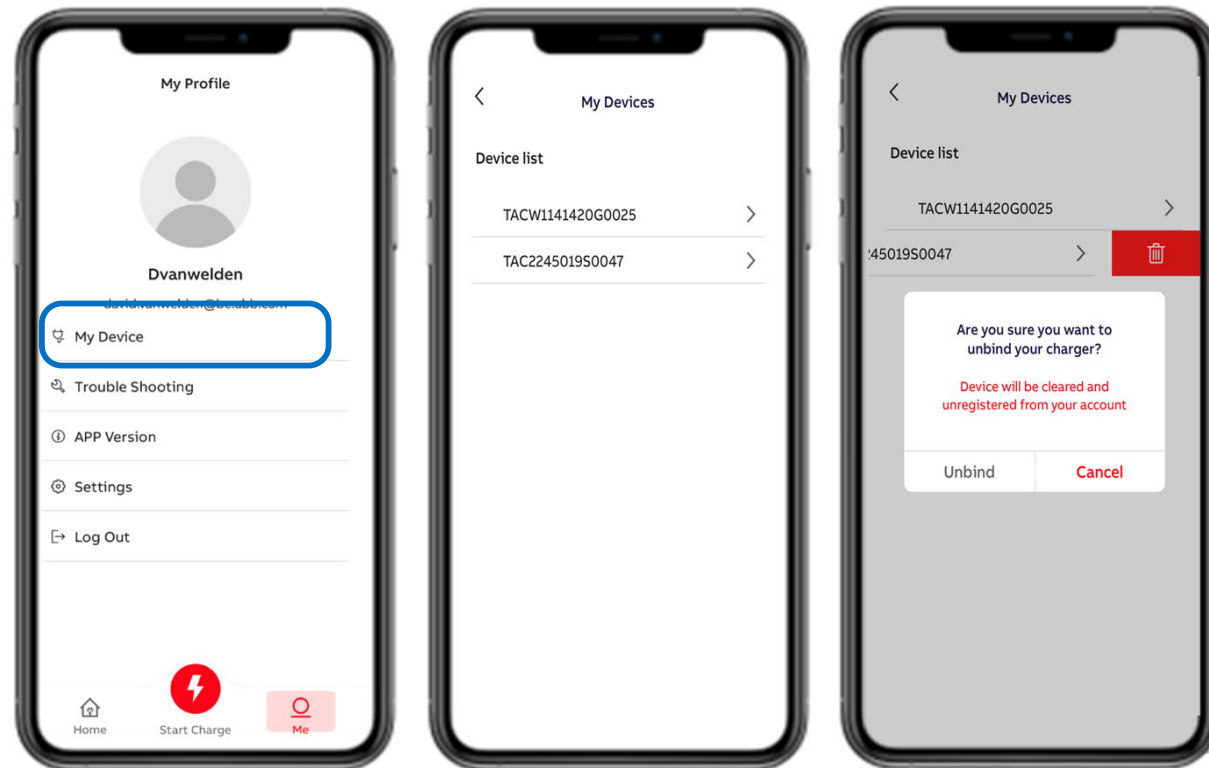
(Authentication via Pin code)

Removing the device(s) from the user account can be done via the 'Unbind' option.

Slide the device from right to left and use the red delete box to open the unbind option.

With 'Unbind' the charger is removed from the user account.

Note: the owner of the PIN code is the owner of the charger!



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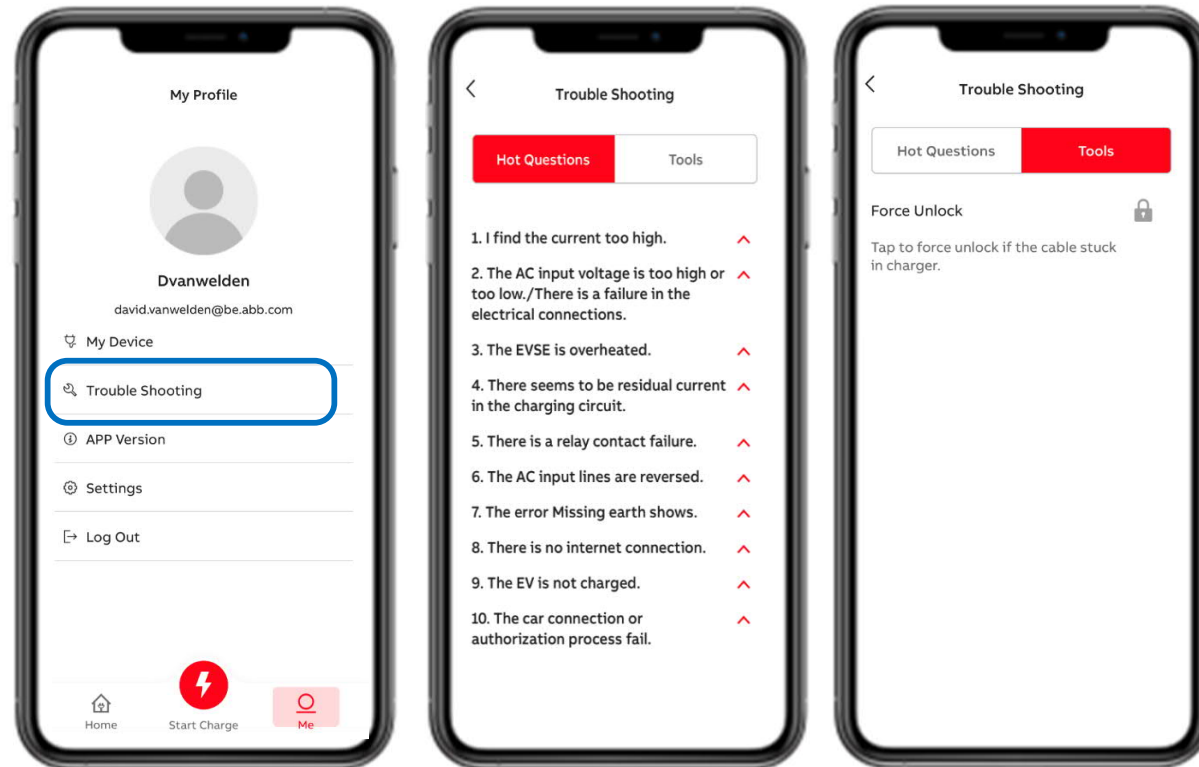
## ChargerSync™ App

### "Me - Trouble shooting"

Via 'Me' the EV driver can find the basic 'Trouble Shooting Guide' for this AC wallbox.

- Hot Questions
- Tools "Force Unlock"

*In Diagnosis, the charger's log file can be found (will be released later).*

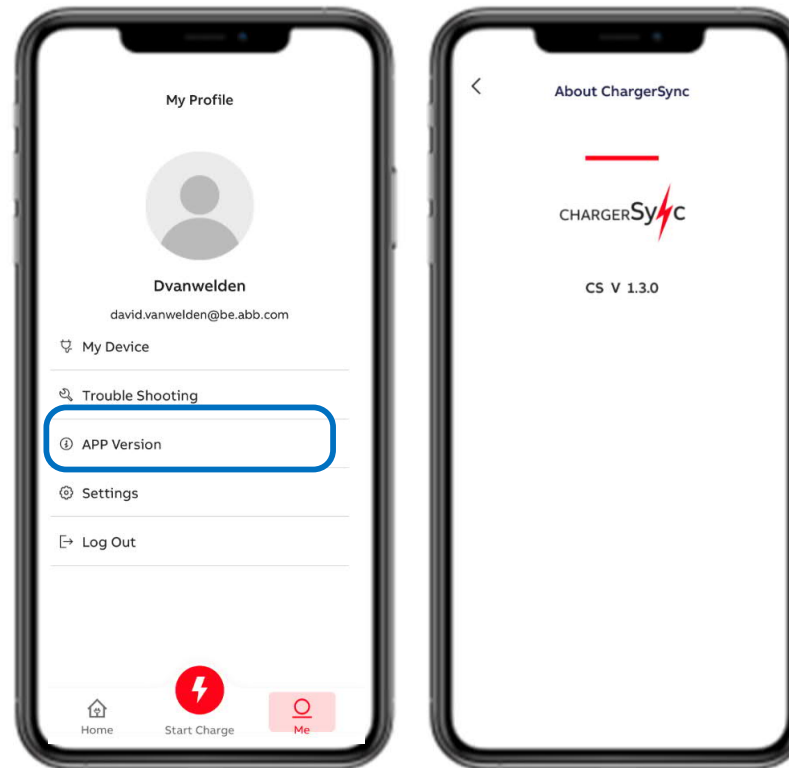


# Terra AC wallbox

## ChargerSync™ App

### "Me – APP version"

In 'Me' it is also possible to check which version of the 'ChargerSync' app you are currently using.

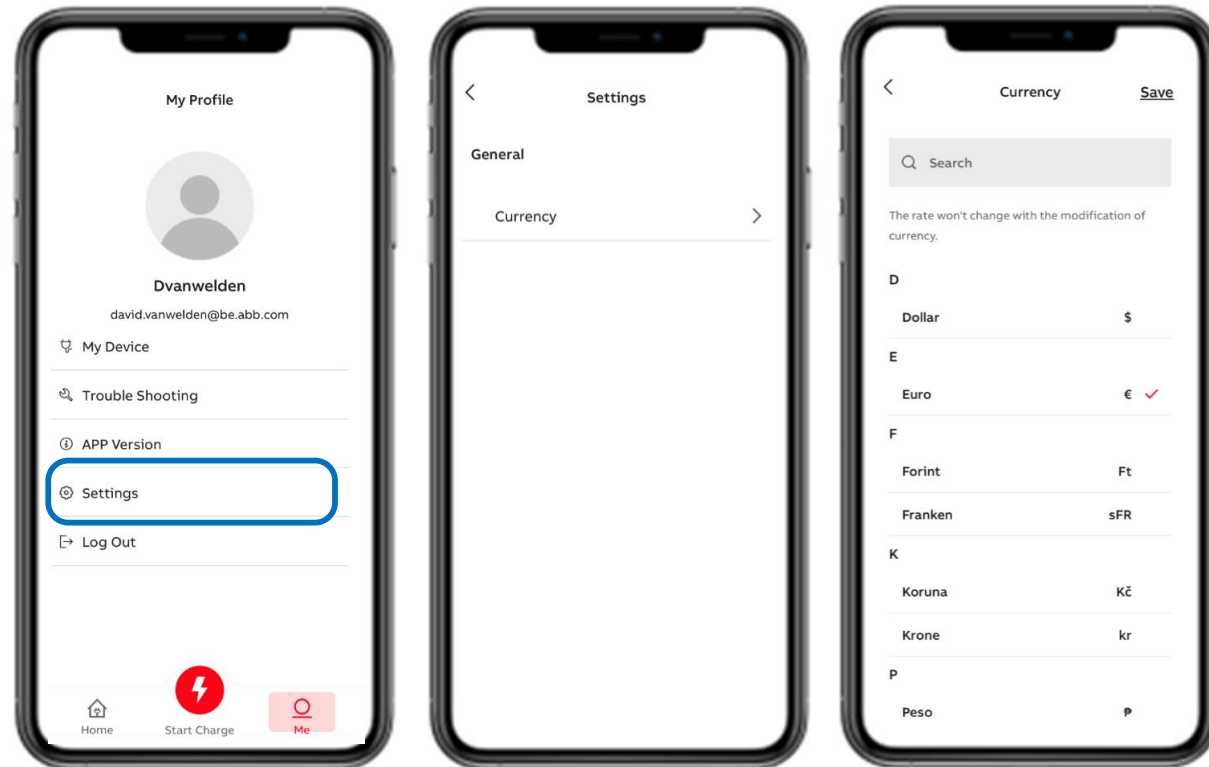


# Terra AC wallbox

## ChargerSync™ App

### "Me – Setting – Currency"

In 'Setting' it is possible to change the currency ( EUR, POUND, DOLLAR...) for the coast of a charge session .





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Do you want to know more?

ABB EV Charging Solutions

[ABB Terra AC wallbox](#)



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