

Installation and Configuration Manual — eCharge Hardy Barth cPH2 2T22

Version:2026.10.1

Table of Contents

1. Introduction **2**
1.1. Legal provisions . . . 2
1.2. Qualification of the installing electrician . . . 2
2. Product description **3**
3. Commissioning **4**
3.1. Connecting the meter . . . 5
3.2. Configuration . . . 6
3.3. RFID authorization . . . 7
3.4. Updating the charging station firmware . . . 13
4. Install FEMS App eCharge Hardy Barth cPH2 2T22 Charging Station **15**
4.1. Installation wizard . . . 15
4.2. Interactions with other EMSs . . . 18
5. Phasenumschaltung bei der Hardy Barth eCharger cPH2 **19**
6. How to Use Installation and Configuration Manual — eCharge Hardy Barth cPH2 2T22 **20**
6.1. Charging stating main window . . . 20
6.2. Forecast . . . 22
6.3. History . . . 23
6.4. Energy limit . . . 24
6.5. Schedule (Active Mode) . . . 25
6.6. Base mode . . . 28
6.7. App Center Vehicles . . . 29
6.8. Phase Switching . . . 30
6.8.1. Manual Phase Switching . . . 30
6.8.2. Automatic Phase Switching . . . 31
7. Contact us **32**
8. Directories **33**
8.1. List of illustrations . . . 33

1. Introduction

1.1. Legal provisions

The information contained in these documents is the property of Heckert Solar GmbH. Publication, in whole or in part, requires the written consent of Heckert Solar GmbH.

Subject to changes and printing errors!

1.2. Qualification of the installing electrician

A qualified electrician is a person who has the necessary experience and training:

- Setting up, switching on, switching off, disconnecting, short-circuiting and repairing circuits and devices
- Standard maintenance and use of protective devices in accordance with current safety standards
- First aid/emergency care
- Current knowledge of local regulations, standards and guidelines

2. Product description

3. Commissioning

	To install the Hardy-Barth charging station, please follow the instructions in the "cPH2 Charging Station Installation and Operating Instructions." Installation- and Operating Manual for cPH2 Charging Station
	You should also read and familiarize yourself with the "Configuration Manual" for the Salia PCB: Configuration Guide — Salia PCB

This quick guide refers to the original user manuals.
It serves as an installation aid for qualified electricians in the area of communication interfaces, but is not a substitute for studying the user manuals.

Once the charging station has been installed, it must be connected to the customer network via the two network interfaces (LAN) of the two Salia boards (Master, Slave).

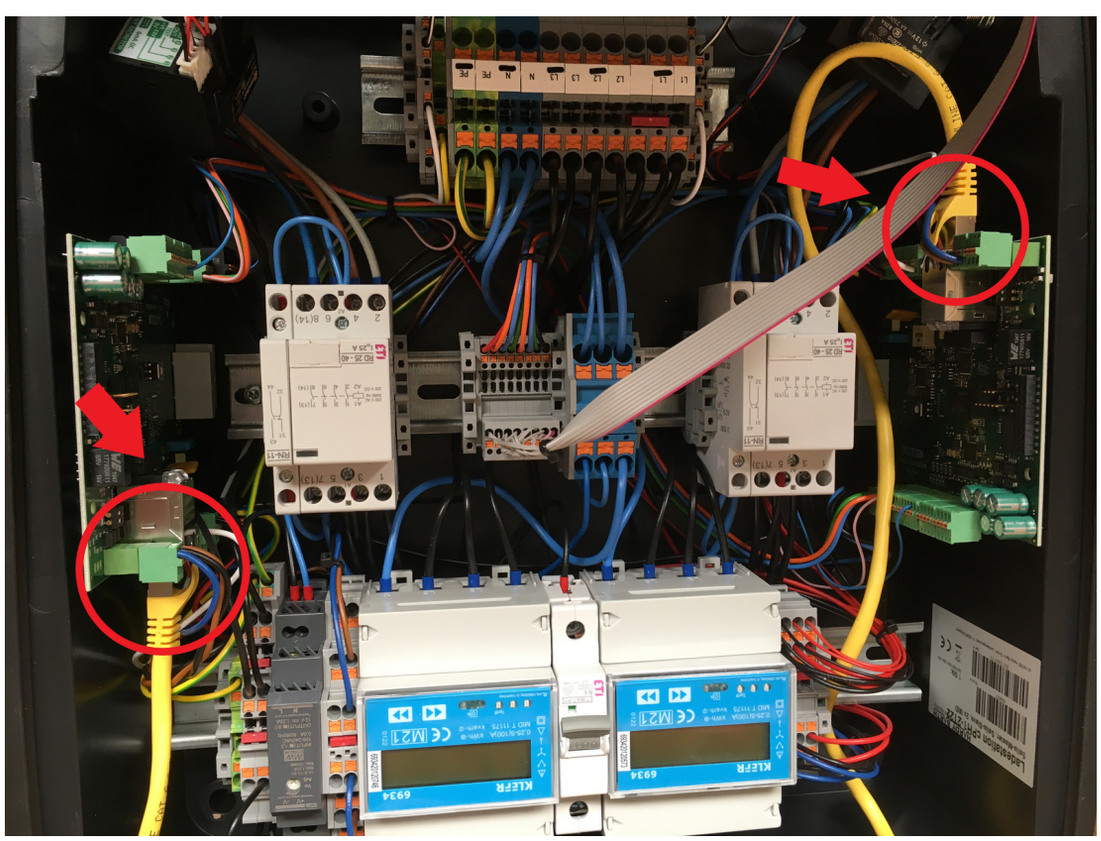


Image 1. Network interfaces (LAN) — Salia board

On delivery, the two network interfaces are connected to each other with a LAN cable. This cable must be disconnected so that each board can be connected separately to the customer network.

3.1. Connecting the meter

With the cPH2 2T22 model, the two necessary meters are already installed in the charging station. No further work is necessary here.

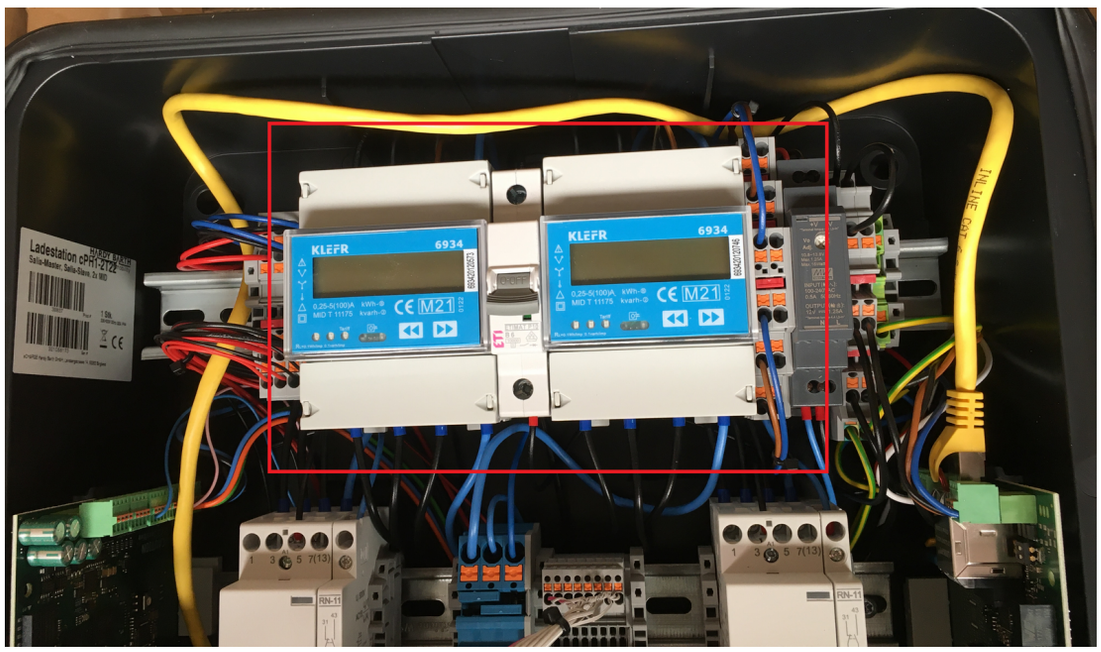


Image 2. Meter

From our experience, the meter plug connections on the circuit boards are sometimes a little loose. Make sure that *both* plugs are connected firmly.

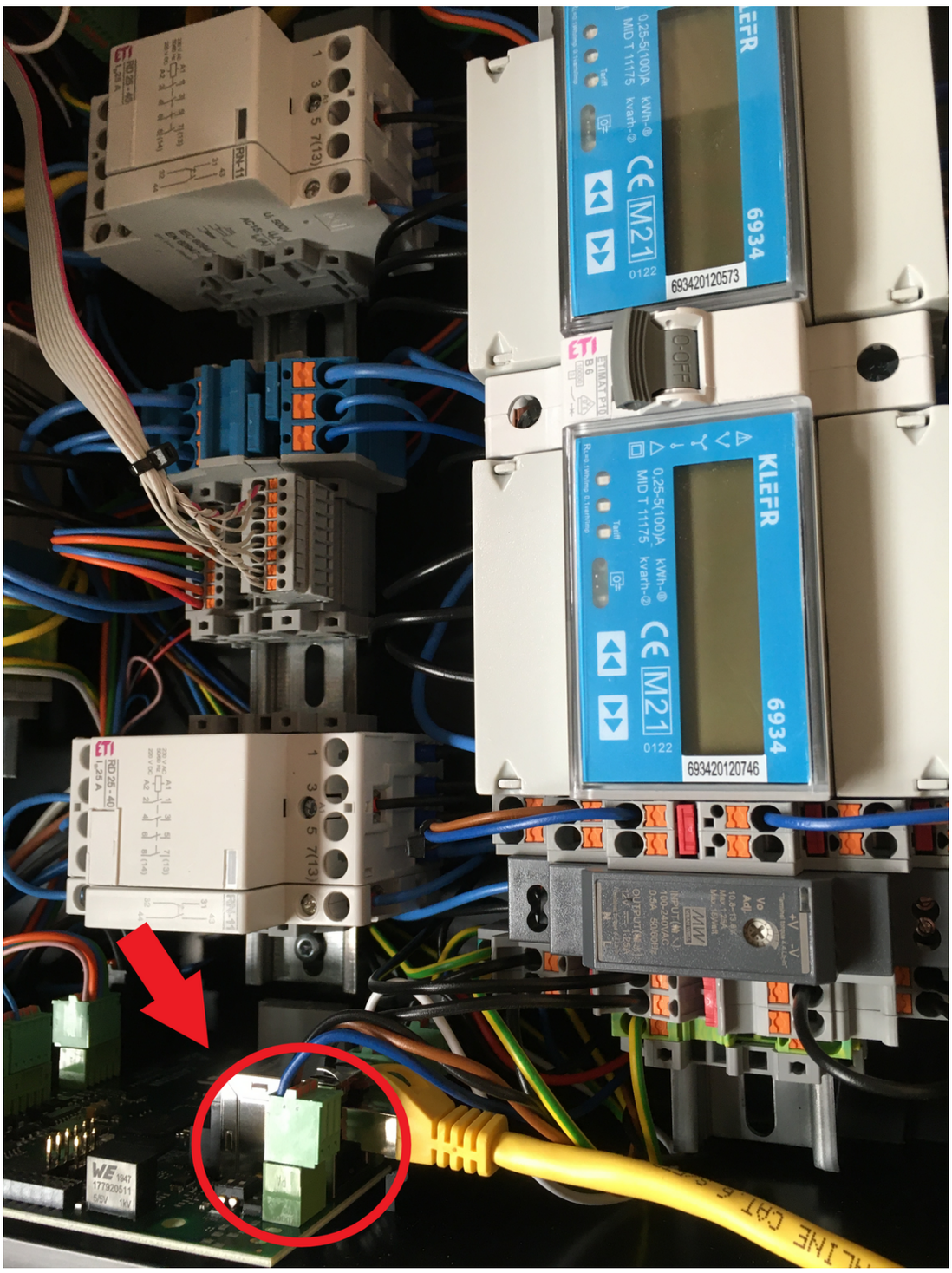


Image 3. Meter plug connection

3.2. Configuration

The cPH2 2T22 model is already preconfigured. No further work is required here.

By default, the first charging point of the charging station can be reached at the IP address 192.168.25.30, the second charging point at the IP address 192.168.25.31 and so on.

We recommend that you always use the latest firmware to ensure that all the latest functions of the charging station can be used.

3.3. RFID authorization

We are currently working on compatibility with Hardy Barth RFID authorization.



Please note the following software requirements for RFID authorization of your Hardy Barth eCharger cPH2.

Compatibility with Heckert Solar energy management system	
Hardy Barth eCharger	Requires software version *2.2.0* or newer.

To enable RFID authorization on a trial basis, please follow the steps below.

1. To do this, open the SALIA web interface.



Image 4. SALIA web interface

2. Go to the *Configuration* tab.

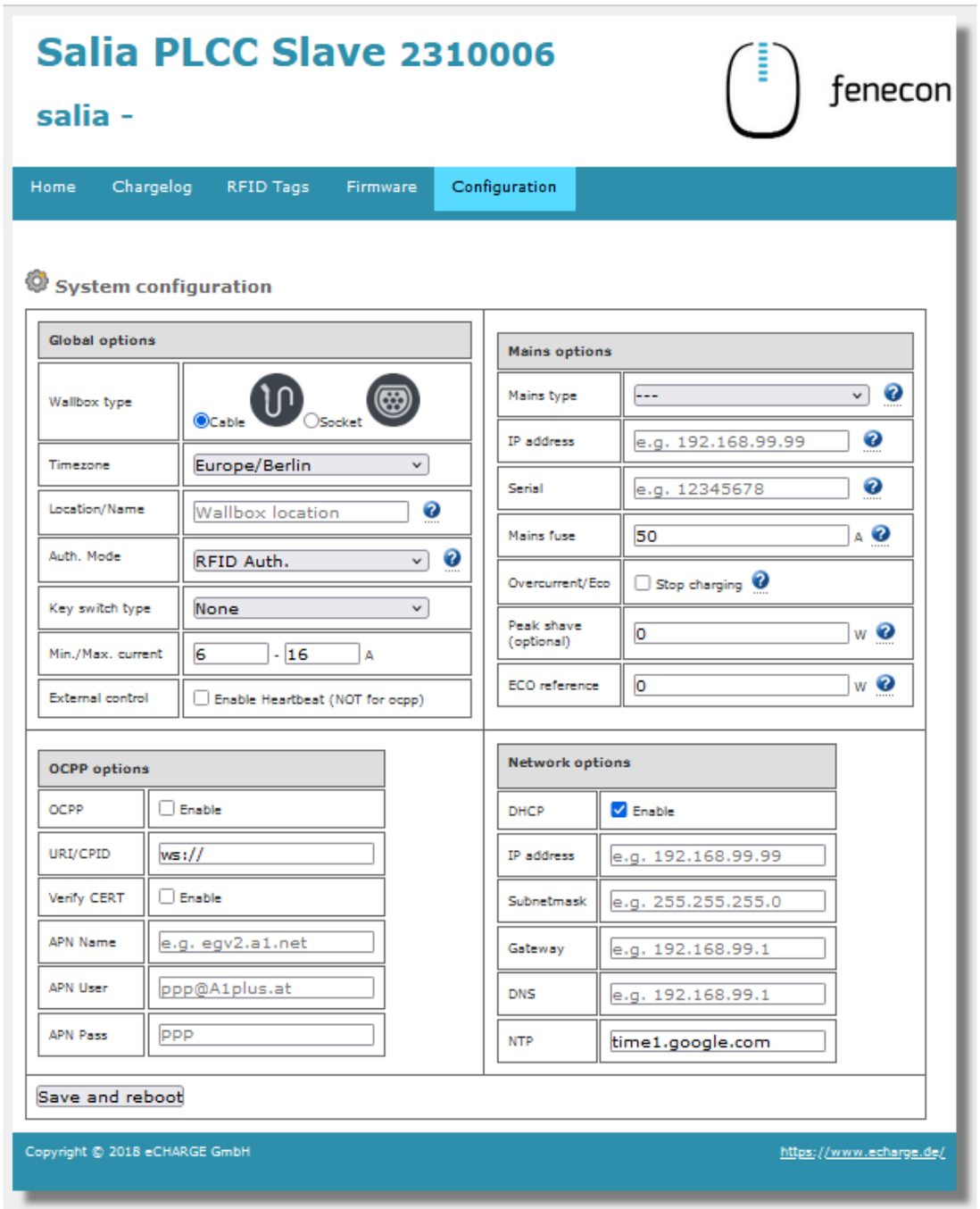


Image 5. Network settings

3. In the *Global Options* section, set the Authorization Mode from **Free Charging** to **RFID Authorization**.

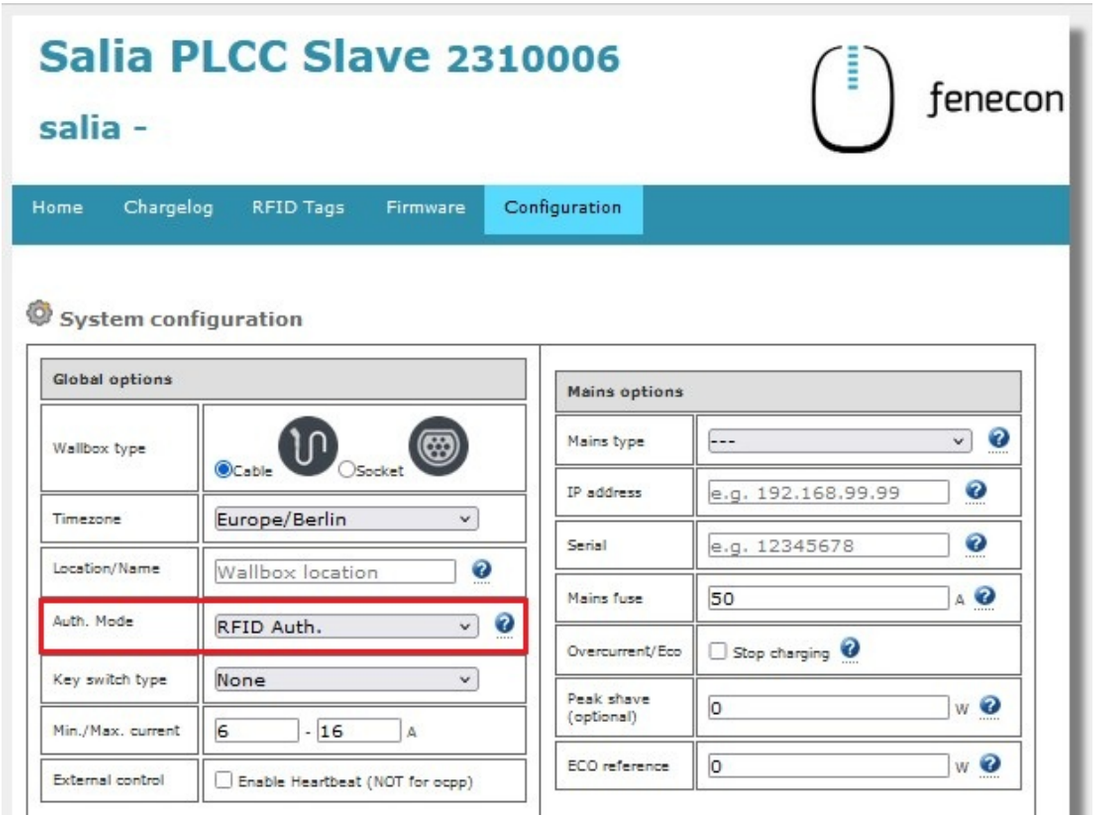


Image 6. Change authorization

4. To complete the configuration, please click **Save and Reboot**.

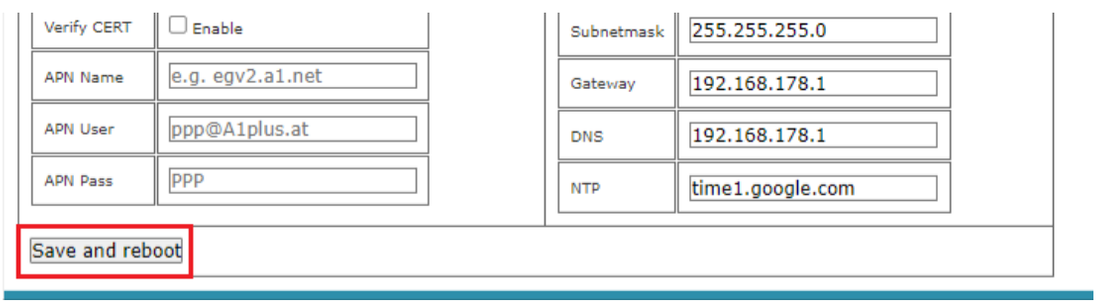


Image 7. Save and reboot

5. The RFID authorization icon should now appear on the home page of your SALIA web interface.



Please note that you can only change the RFID authorization for your Hardy Barth eCharger cPH2 through the SALIA web interface.

To disable RFID authorization for your Hardy Barth eCharger cPH2, follow steps 1 through 5.

Important: In Step 3, under *Global Options*, set the Authorization Mode from **RFID Authorization** to **Free Charging**.

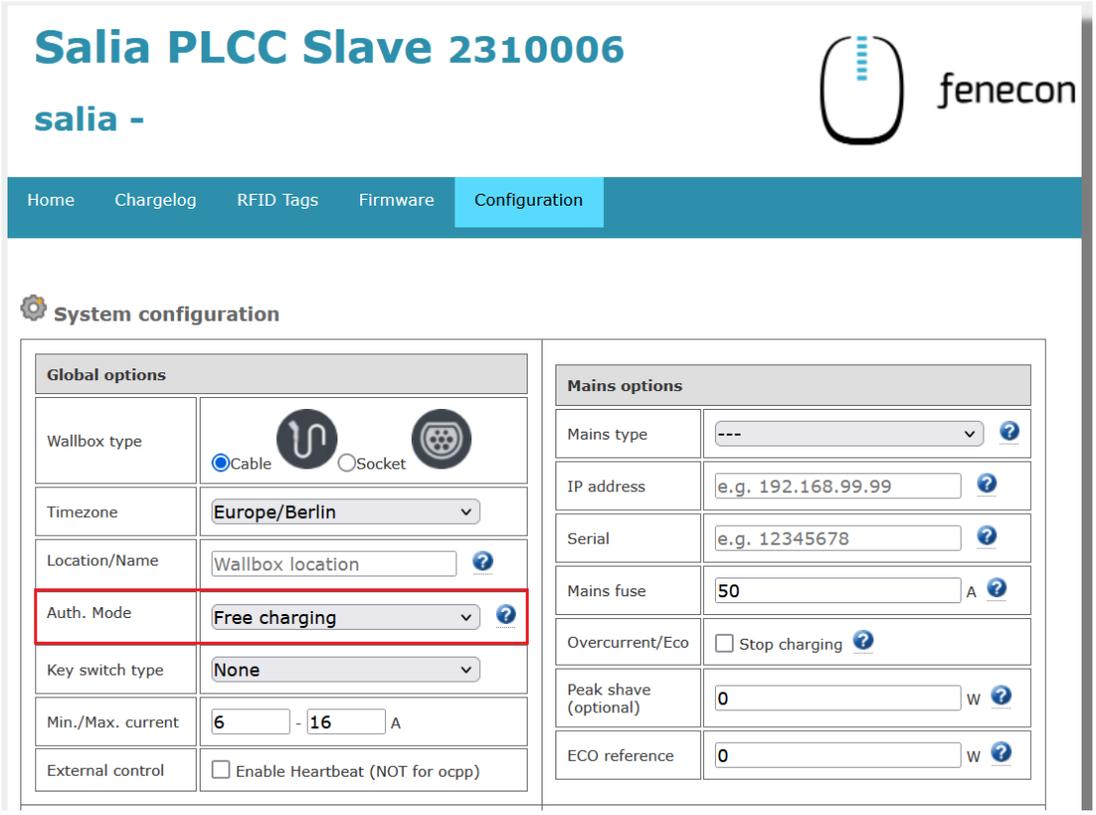


Image 8. Change authorization

On the home page of your SALIA web interface, the RFID authorization icon should now be grayed out.



Please note that no authorization is required in **Free Charging** mode. Therefore, set your Hardy Barth eCharger cPH2 to **OFF** via the FEMS AC charging station app when you will be away for an extended period.

3.4. Updating the charging station firmware

We recommend always using the latest firmware to ensure that all the latest functions of the charging station can

be used.

It can be obtained from the eCharge Hardy Barth manufacturer's website or directly via the link below:
Salia eCharge Firmware

The firmware can then be updated via the web interface of the charging station (see Web interface — Charging station).

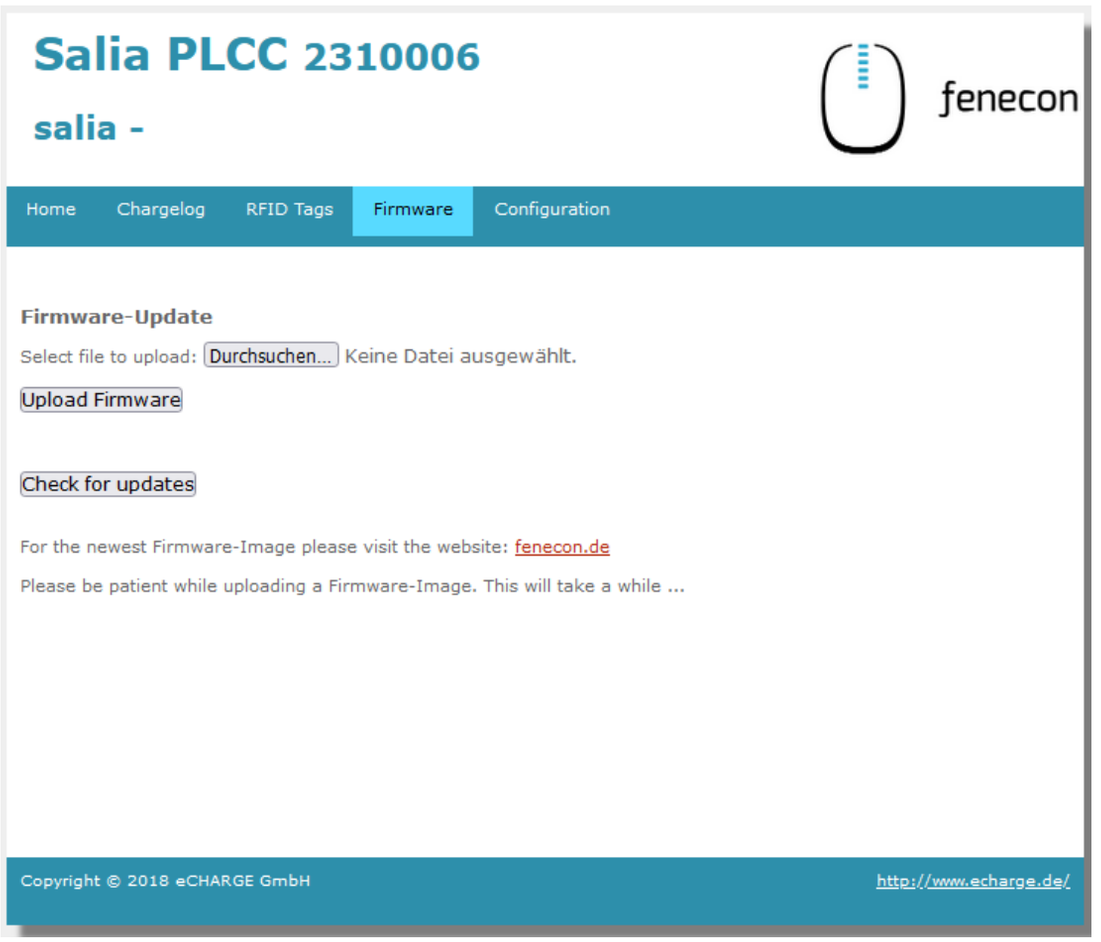


Image 9. Web interface — Charging station

Then proceed as follows:

1. Open the *Firmware* tab.
2. Select the previously downloaded firmware file with *Browse…*.
3. Click on *Upload Firmware*.

The *Check for updates* function is only available from version 1.50.0 and up.

The software update has now been completed.

The configuration is now complete.

4. Install FEMS App eCharge Hardy Barth cPH2 2T22 Charging Station

In the FEMS App Center you will find all installable FEMS Apps — such as the FEMS App eCharge Hardy Barth cPH2 2T22 Charging Station.

The user manual FEMS App Center provides detailed instructions on how to use the FEMS App Center. It also explains how to register and redeem a license key.

Then follow the instructions in the FEMS App installation wizard on your Hardy Barth eCharger cPH2.

4.1. Installation wizard

You will then be taken to the installation wizard for FEMS App eCharge Hardy Barth cPH2 2T22 Charging Station.

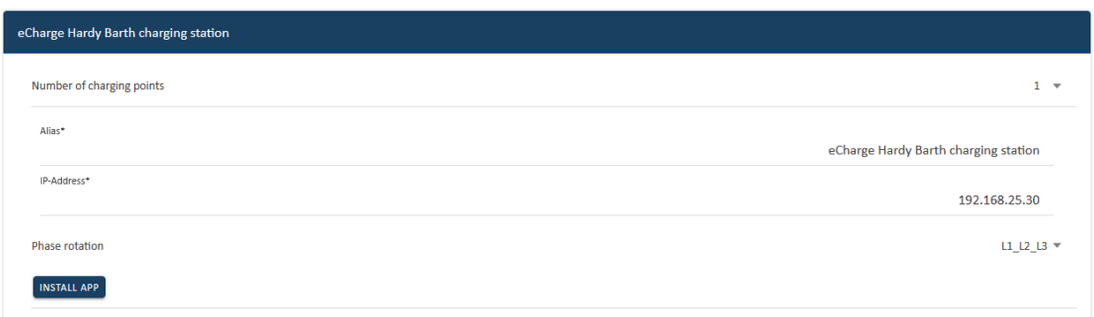


Image 10. App installation — Variant 2: Step 7

Some of the input fields are pre-filled. Nevertheless, enter your data if it differs from the default values (e. g. IP address). Otherwise, the default values can be retained (e. g. port, Modbus unit ID).

Mandatory fields are marked with *

Check your entries and make sure that they are correct. Otherwise the respective app will not work properly!

For the Hardy Barth eCharger cPH2 2T22, please select "2" for the number of charging points.

Use the drop-down menu to select the number of charging points.

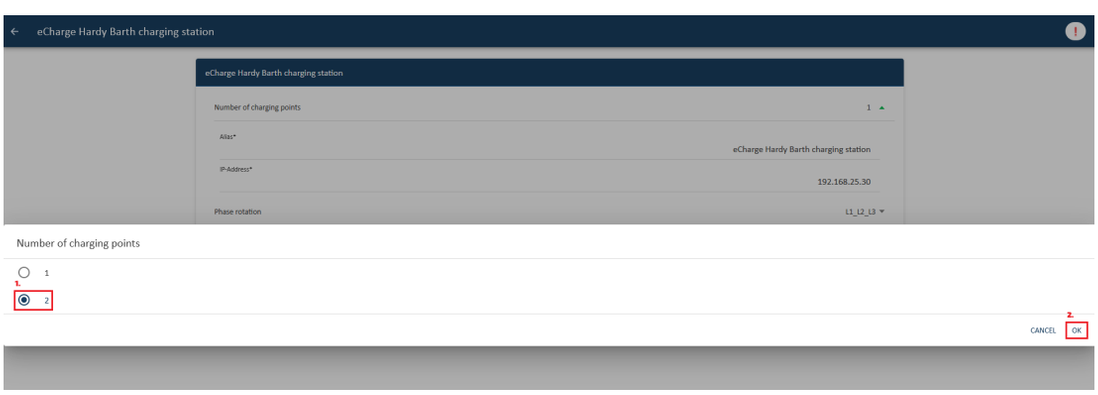


Image 11. App installation — Variant 2: Step 8

Confirm with "OK".

Please note that the IP addresses for the right and left charging points of the Hardy Barth eCharger must be entered separately.

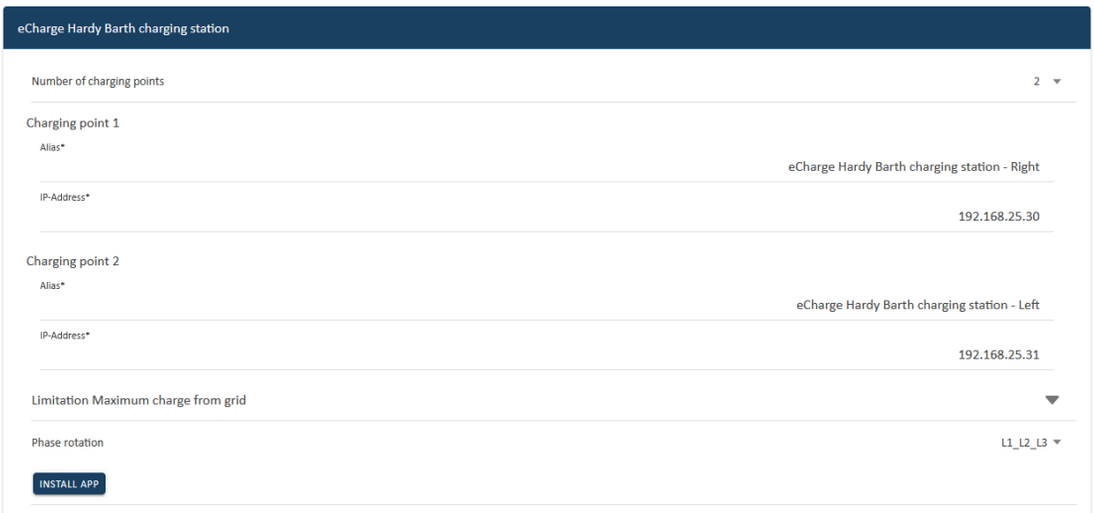


Image 12. App installation — Variant 2: Step 9

From the second charging point, a limitation of the maximum grid consumption in watts must be set.

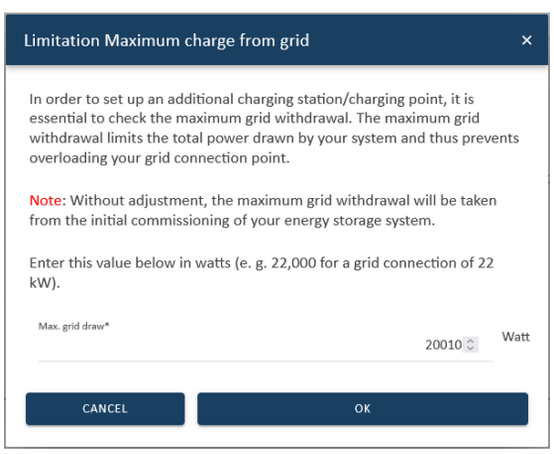


Image 13. App installation — Variant 2: Step 10

Please confirm that you have read the note and filled in the value correctly.

Confirm with "OK".

In the next step, you can set a phase rotation.

Please note that phase rotation is only included from FEMS release 2024.11.2 or later.

The phase connection L1_L2_L3 is selected as standard.



Image 14. App installation — Phase rotation: Step 1

If your phase connection differs from this, you can select a different phase connection using the drop-down button.

If you switch from the Write Access app version to the Read Access version, your wallbox requires a restart.

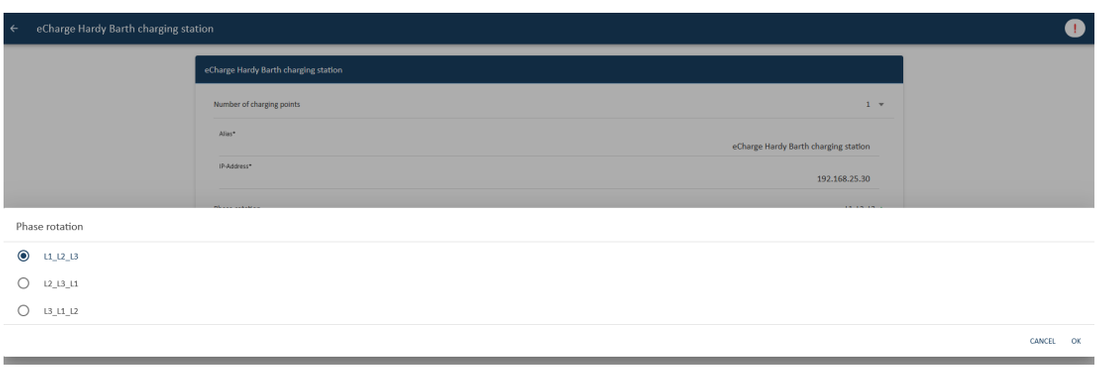


Image 15. App installation — Phase rotation 2: Step 2

Confirm with "OK".

Then click on "Install app".

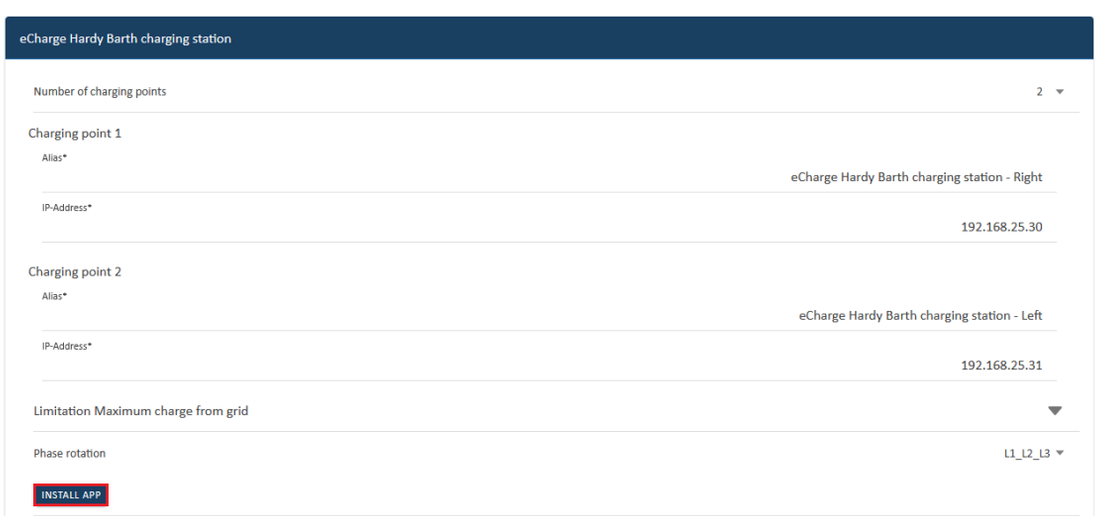


Image 16. App installation — Variant 2: Step 11

Once the installation process is complete, the new app appears in the overview of the FEMS App Center in the "Installed" category.

The FEMS App eCharge Hardy Barth cPH2 2T22 Charging Station has been successfully installed.

4.2. Interactions with other EMSs

It is possible that an energy management system (EMS) that was preinstalled on the wallbox is active.



Please note that unwanted interactions may occur if another EMS is installed in addition to EMS. General Information

5. Phasenumschaltung bei der Hardy Barth eCharger cPH2

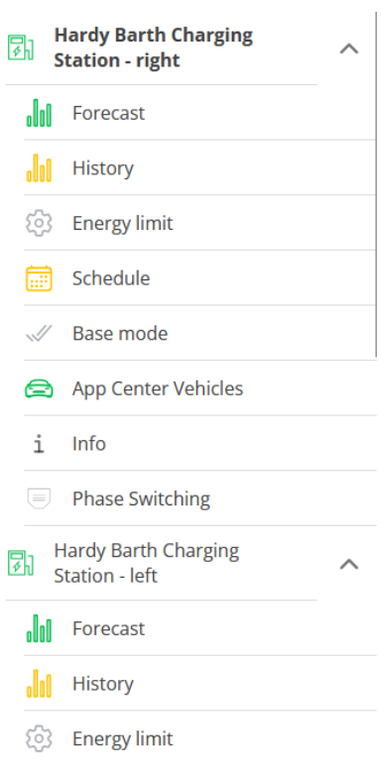
Die Phasenumschaltung bei der Hardy Barth eCharger cPH2 ist am rechten der beiden Ladepunkte verfügbar.

6. How to Use Installation and Configuration Manual — eCharge Hardy Barth cPH2 2T22

6.1. Charging stating main window

A charging station is displayed in EMS at Consumption.

Click or tap in the menu to open the main window for your charging station. This window displays various pieces of information, e. g. the current charging mode, charging power, etc.



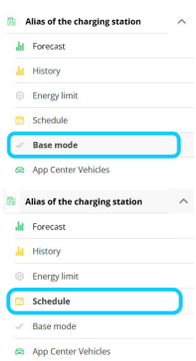
Depending on the submenu item selected, the main window displays different information and settings:



Base Mode	Off
Actual Mode	Off
State	Vehicle not connected
Power	0 W
Energy since the last charge start	0 Wh

The highlighted area below displays custom tasks (schedule).

In addition, the modes currently active — **Base Mode** and **Active Mode** — are displayed to the right of the charging station.

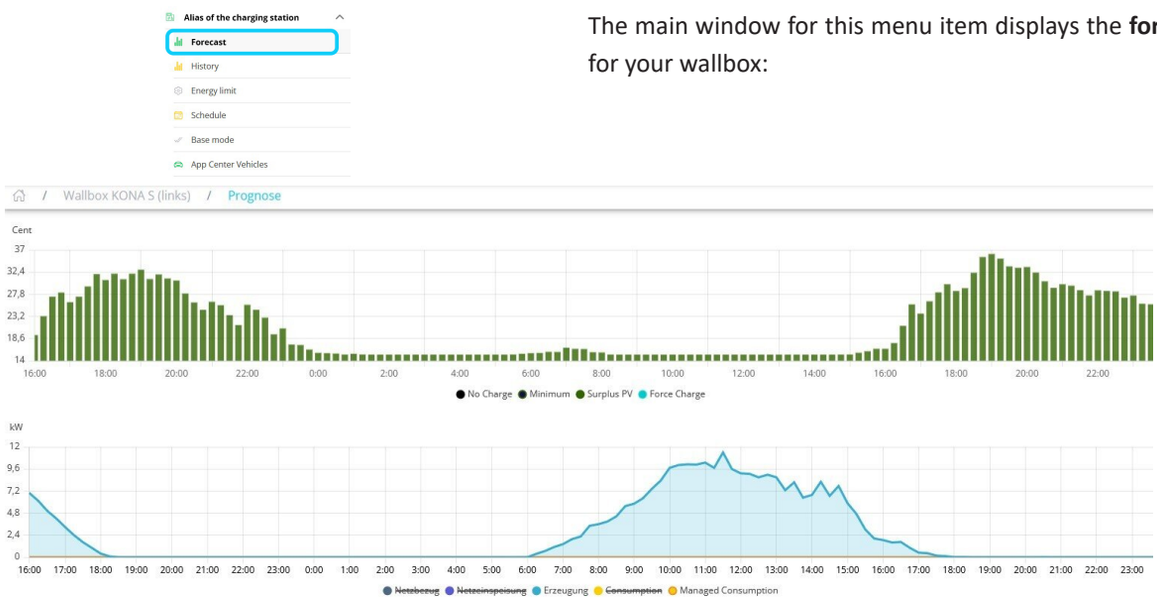


The **Base Mode** can be set via the submenu item {charging-station-base-mode-xref}.

Active Mode can be set via the submenu item {charging-station-task-scheduling-xref}.

Table 1. Explanation — Basic Mode and Active Mode

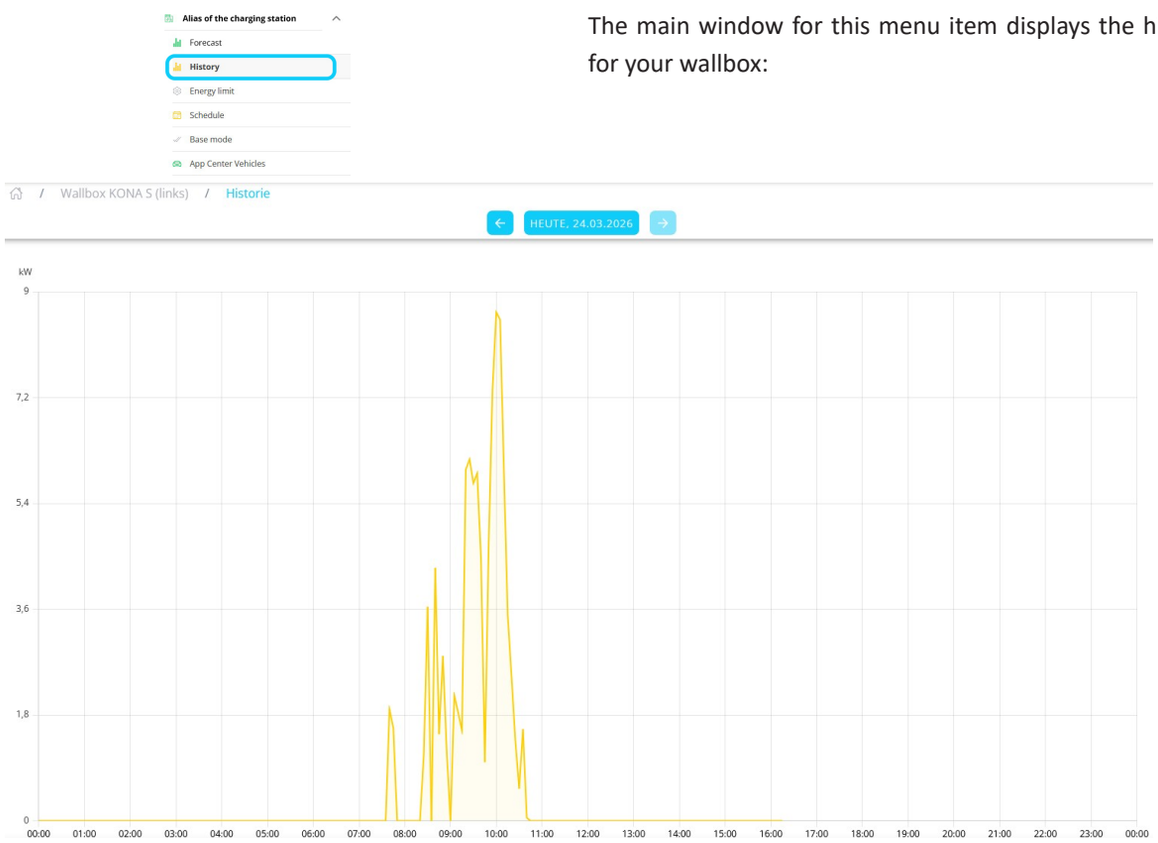
6.2. Forecast



The main window for this menu item displays the **forecast** for your wallbox:

Table 2. Explanation — Forecast

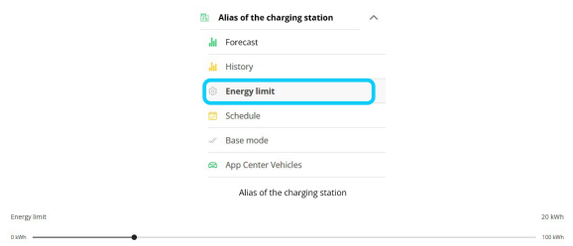
6.3. History



The main window for this menu item displays the history for your wallbox:

Table 3. Explanation — History

6.4. Energy limit



Use this menu item to set an **energy limit** for charging your vehicle.

There is a slider for this in the corresponding main window.

- Energy limit **0**: The vehicle will continue charging without restriction until its battery is fully charged or **Base Mode** is set to *Off*.
- Energy limit **20**: The battery is charged up to a maximum of 20 kWh during each charging cycle.

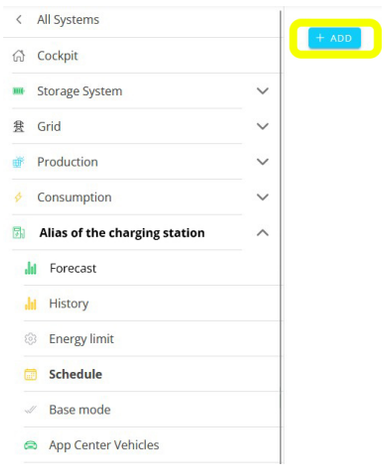
etc.

Confirm the setting using the ☑ in the lower-right corner of the main window.

Table 4. Explanation — Energy limit

6.5. Schedule (Active Mode)

Klicken oder tippen Sie auf die Menüoption *Zeitplan*, um einen **Aktiven Modus** einzustellen.
Dieser Modus überschreibt den Grundmodus der Ladestation mit benutzerdefinierten Aufgaben.

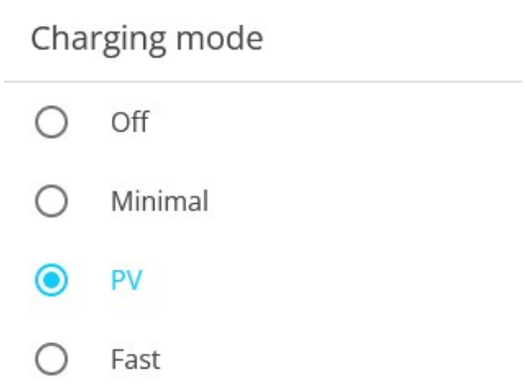


In the main window, click or tap **[+ ADD]** to create a new task.

Now you can configure settings for your task:



Charging Mode
Select the desired charging mode for the task. The following options are available:



No charging

Completely disables the charging station.

Excess solar power with guaranteed charging

The *PV Surplus with Guaranteed Charging* mode **guarantees a minimum charging status for the vehicle**. If there is sufficient PV surplus, it is used. If there is no PV surplus, the vehicle is charged using grid with-

drawal up to the minimum charging power.

Excess solar power

In *PV Surplus* mode, EV charging is dynamically adjusted to the excess electrical energy.

Fast charging

In *Fast Charging* mode, the vehicle charges as quickly as possible.

Wiederholung und Start-/Endzeiten

Stellen Sie dann den **Wiederholungsintervall** ein und definieren Sie eine **Start- und Endzeit** für die Aufgabe.

Using **[+ ACCEPT]** saves the task and displays it in the overview of your charging station in the main window.

Edit Task

This main window displays your custom tasks (schedule).

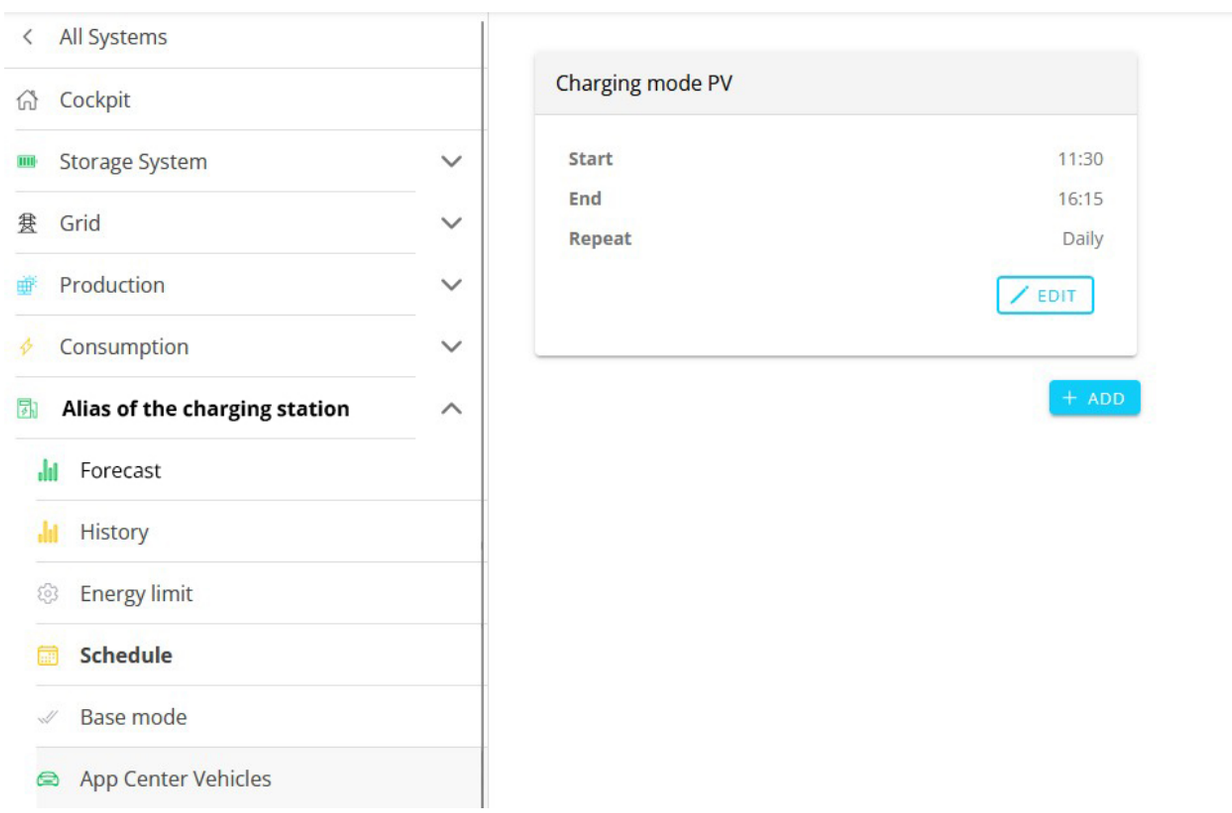


Image 17. Overview — Schedule with a created task

If you already have a task in the list, you can *EDIT* it to, e. g. adjust the time period or the charging mode during that time period.



Use **[ACCEPT]** to save your changes to the task.

Click/tap DELETE to delete the task.

6.6. Base mode

Click or tap the *Base Mode* menu item to open the following main window:

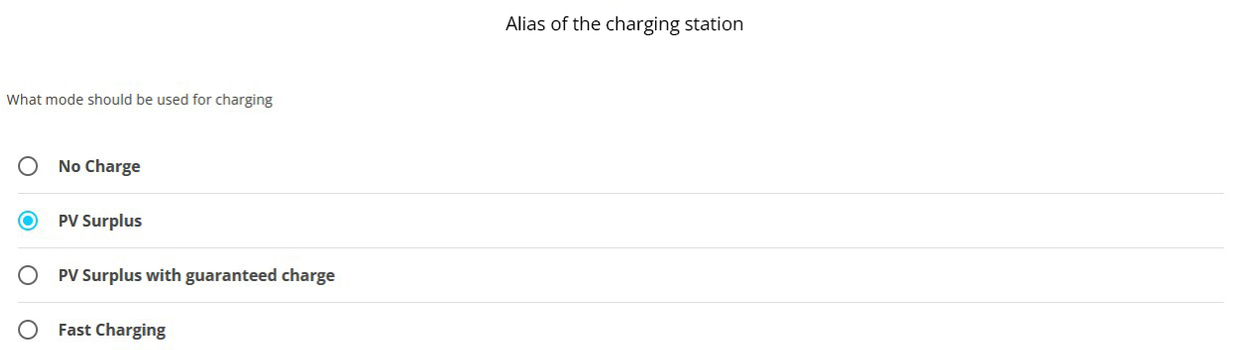


Image 18. Example — Overview — Base Modes

No charging

Completely disables the charging station.

Excess solar power

In *PV Surplus* mode, EV charging is dynamically adjusted to the excess electrical energy.

Excess solar power with guaranteed charging

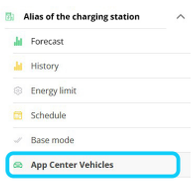
The *PV Surplus with Guaranteed Charging* mode **guarantees a minimum charging status for the vehicle**. If there is sufficient PV surplus, it is used. If there is no PV surplus, the vehicle is charged using grid withdrawal up to the minimum charging power.

Fast charging

In *Fast Charging* mode, the vehicle charges as quickly as possible.

Confirm the setting using the ☑ in the lower-right corner of the main window.

6.7. App Center Vehicles



Use this menu item to configure vehicle-specific settings.

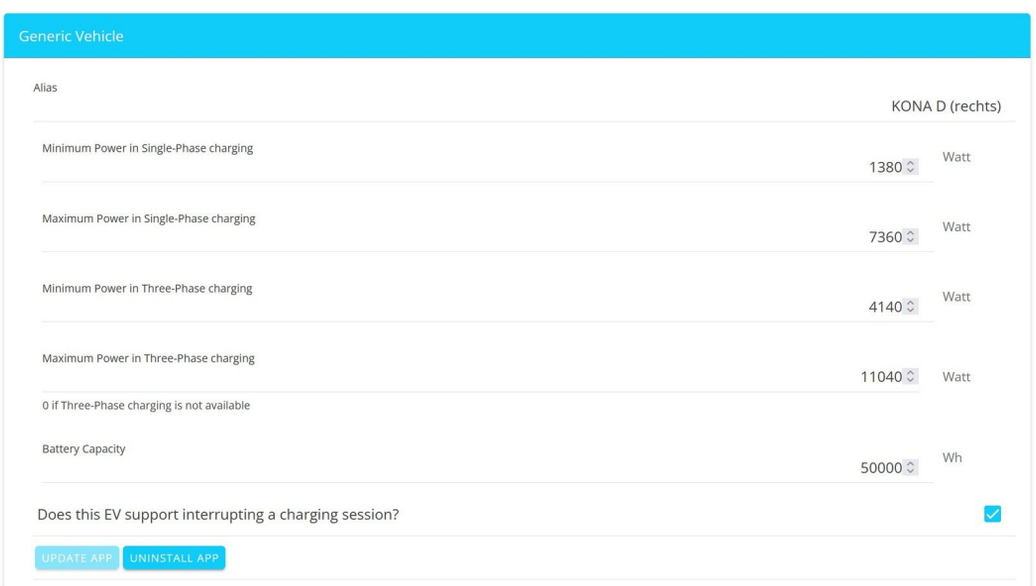
The main window displays the settings for the *Generic Vehicle* app.

The *Generic Vehicle* app is automatically installed when you install FEMS App eCharge Hardy Barth cPH2 2T22 Charging Station.

Generic Vehicle means:

- The **primary vehicle** that is charged at this charging station by default.
- We recommend that you provide the correct model name of the vehicle.
- You can also define more than one vehicle.

The following settings are available for the connected Generic Vehicle:



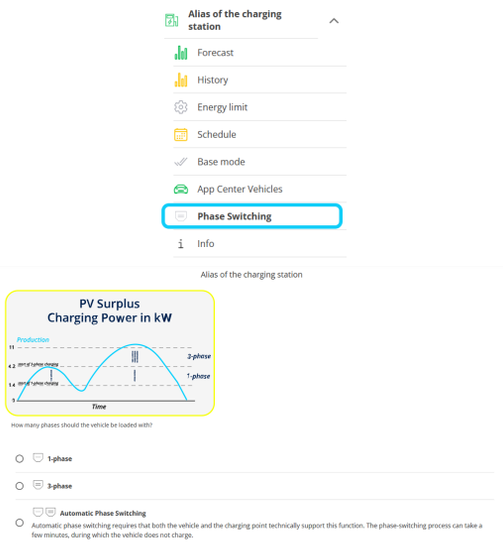
Once you have made the desired changes, save them by clicking **[UPDATE APP]**.



These settings provide EMS with more precise vehicle data, making the charging forecast for your vehicle more accurate. You can also enter your vehicle's model name here so that it appears in the app.

6.8. Phase Switching

If a PV charging mode (*PV Surplus* or *PV Surplus with guaranteed charging*) is selected for your charging station, you can manually switch from 1-phase to 3-phase charging in the submenu using the *Phase Switching* option:

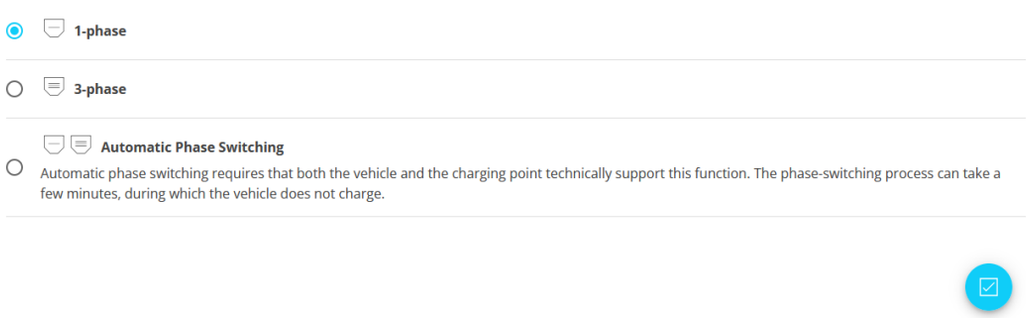


Tap or click the submenu item to access the following main screen.

The following options are available here:

- Manual Phase Switching, 1- or 3-phase
- Automatic Phase Switching

6.8.1. Manual Phase Switching



Use Case

One scenario would be to use the limited PV production to charge the vehicle anyway by manually switching to single-phase charging.

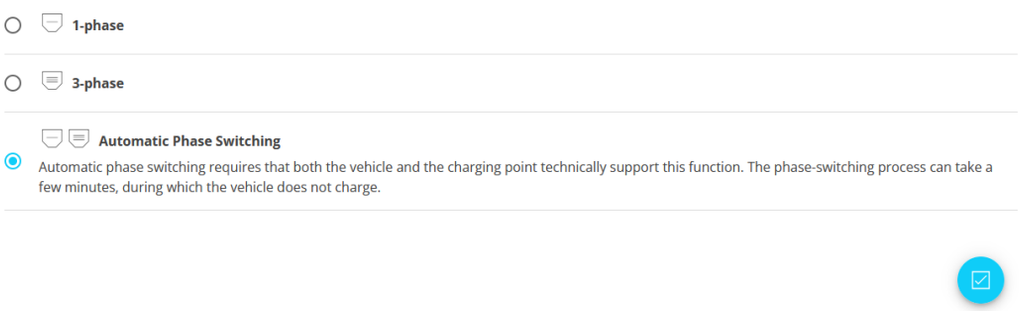
Switching During Charging:
When manually switching from single-phase to three-phase and vice versa, the hardware undergoes a 30-second switching process each time.

- Please wait during this switchover.
- During these 30 seconds, the charging power is reduced to 0 kW, and then the switchover occurs.

- When performing phase switching, vehicles behave differently depending on the model.
- Your vehicle must support phase switching.

6.8.2. Automatic Phase Switching

In addition to the Manual Phase Switching (1- or 3-phase), there is the option of Automatic Phase Switching:



The phases are automatically switched based on the charging power. This allows even a small amount of excess PV power to be utilized.

- The *Fast Charge* mode always uses 3 phases.
- Your vehicle must support dynamic phase switching.

- The switching times depend on the wallbox and its internal logic.
- The phase change may take a few minutes.

7. Contact us

For support, please contact:

Symphon-E Service

Service phone: +49 (0) 371 45 85 68 - 100

E-mail service: symphon-e@heckert-solar.com

8. Directories

8.1. List of illustrations

Image 1. Network interfaces (LAN) — Salia board
Image 2. Meter
Image 3. Meter plug connection
Image 4. SALIA web interface
Image 5. Network settings
Image 6. Change authorization
Image 7. Save and reboot
Image 8. Change authorization
Image 9. Web interface — Charging station
Image 10. App installation — Variant 2: Step 7
Image 11. App installation — Variant 2: Step 8
Image 12. App installation — Variant 2: Step 9
Image 13. App installation — Variant 2: Step 10
Image 14. App installation — Phase rotation: Step 1
Image 15. App installation — Phase rotation 2: Step 2
Image 16. App installation — Variant 2: Step 11
Image 17. Overview — Schedule with a created task
Image 18. Example — Overview — Base Modes