

Audi Wallbox Installation and User Manual

EN

Powered by Elli ⚡

Manufacturer of this wallbox:
EVBox Manufacturing B.V.
Kabelweg 47
1014 BA, Amsterdam
Netherlands

Distribution of Audi Wallbox by
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Karl-Liebknecht-Straße 32
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English

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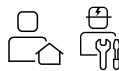
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General information



Scope of the document

Retain all documentation delivered with the wallbox in a safe place for the entire life cycle of the product. Forward all documentation to any subsequent owners or users of the product.

This manual is intended for users, as well as certified electricians. It provides important information on installing and using the wallbox. In this manual, the term „wallbox“ refers to the wallbox including the charging cable. Please read and follow the procedures and recommendations described in the manual carefully.



Information for the user:

Please note that the installation must only be performed by certified electricians, who can correctly and safely install the wallbox and identify potential danger. The user must read and obey the usage-related chapters marked with this user symbol to correctly and safely operate the wallbox.



Information for the certified electrician:

The installation-related and troubleshooting chapters marked with this certified electrician symbol are intended for certified electricians, who can correctly and safely install the wallbox and identify potential danger.



Danger

Not following the instructions given in this manual will result in the risk of electric shock to users, which will cause severe injuries or death.

- › The installation must only be performed by certified electricians, who can correctly and safely install the wallbox and identify potential danger.

Editorial deadline

All information in this manual and in the Safety Instructions and Quick Installation Guide correspond to the information available at the time of going to press. Due to the ongoing development of the wallbox, deviations between the wallbox and the information in these documents are possible. No claims can be derived from the different information, illustrations or descriptions.

Software updates

Make sure that the wallbox always has the latest software. Please note that a software update requires the approval via the myAudi app. Information about the latest software updates can be found at <https://www.elli.eco/de/changelog/wallbox>. The user is free to install or reject the update. However, this may impair the security as well as functionality of the wallbox. It will then potentially no longer be possible to use new functions or functionalities may be restricted.

 If an update is not agreed to, Elli and Audi will not be liable for any product defects in the wallbox that are caused by the missing update.

Audi customer support

We are happy to assist with any questions about the wallbox and this manual. Please contact us using one of the following options.

Hotline: 00800 2834925

E-Mail: audi-support@elli.eco

Safety precautions

Read and obey the following safety precautions before installing, servicing or using the wall-box. A certified electrician must ensure that the wallbox is installed in accordance with the relevant country-specific standards and local regulations.

Symbols

The symbols used in this manual have the following meaning:

Symbols used and their explanations

1., a. or l.

Actions to be followed in the stated order.

›

Actions to be followed in a non-specific order.



Texts with this symbol contain supplementary information.

Highlighted sections



Danger

Texts with this symbol contain information regarding hazardous situations which will cause death or severe injuries if ignored.



Warning

Texts with this symbol contain information regarding hazardous situations which could cause death or severe injuries if ignored.



Caution

Texts with this symbol contain information regarding hazardous situations which could cause minor or moderate injuries if ignored.



Notice

Texts with this symbol contain information regarding situations which could cause damage to the product if ignored.

The following sections contain general information that applies when using the wallbox.



Danger

Not following the instructions given in this document will result in the risk of electric shock to users, which will cause severe injuries or death.

- › The installation must only be performed by certified electricians, who can correctly and safely install the wallbox and identify potential danger.
- › If unsure about how to use the wallbox after reading this document, ask for help at audi-support@elli.eco, refer to www.elli.eco/en/contact or visit a local dealer for more information.

Operating the wallbox when it indicates an error state, or when the wallbox or the charging cable have cracks, show extensive wear, or other physical damage (e.g. expanded housing, etc.) will result in the risk of electric shock, which will cause severe injuries or death.

- › Contact audi-support@elli.eco or the distributor if it is suspected that the wallbox or cable is damaged.
- › Do not operate the wallbox if it is physically damaged.

- › In the event of danger and/or an accident (e.g. formation or smell of smoke, cable breaks, etc.) disconnect the electrical supply to the wallbox immediately. Contact your installer if you suspect that the wallbox is damaged.

- › See chapter Troubleshooting for explanation and further instructions on indicated error states.

Extensive exposure of the wallbox to water will result in the risk of electric shock, which will cause severe injuries or death.

- › Do not direct powerful jets of water toward or onto the wallbox.
- › Do not put the charging plug into any liquid.

Installation, maintenance, repair and relocation of this wallbox by a non-certified electrician will result in the risk of electric shock, which will cause severe injury or death.

- › Only a certified electrician is permitted to install, maintain, repair, and relocate the wallbox.
- › The user must not attempt to maintain or repair the wallbox as it does not contain user serviceable parts.



Warning

Improper usage of the wallbox could result in damage to the wallbox, which could cause injury or death.

- › Read this manual before using the wallbox.
- › If unsure about how to use the wallbox after reading this manual, ask for help at audi-support@elli.eco or visit a local dealer for more information.
- › The wallbox is an electrical device, do not allow children to operate or play with the wallbox.

Using adapters, conversion adapters or cord extensions with the wallbox may result in technical incompatibilities and could result in damage to the wallbox, and could cause injuries or death.

- › Use this wallbox to charge Mode 3* compatible electric vehicles only.
- › Refer to the vehicle user manual to check if the vehicle is compatible.

*Mode 3 is the most common charging mode, which includes all AC charging processes at public charging stations or wallboxes where the electric vehicle is connected to the wallbox.

Using a damaged wallbox (e.g. expanded housing, crack in the cable, etc.) may expose the user to electric components and could result in the risk of electric shock, which could cause injury or death.

- › Always check that the wallbox is free of damage before starting a charging session.
- › Make sure that the charging cable cannot become damaged (kinked, jammed or driven over).
- › Take precautions so that the charge plug does not come into contact with heat sources, dirt or water.

- › Always check that the contact area of the charging plug is free from dirt and moisture before starting a charging session. Use the cable cap to protect the plug from dirt.

A damaged charging cable could result in the risk of electric shock, which could cause danger to the user, severe injuries or death.

- › Make sure that the charging cable is positioned so that it will not be stepped on, tripped over, driven over or otherwise subjected to excessive force or damage. Wind the charging cable around the wallbox, making sure that the charging plug does not touch the ground.

- › Only pull on the charging plug hand grip and never on the charging cable itself.

Exposure of the wallbox to excessive heat sources (for example electric heater, open fire) or flammable substances (for example gas canisters), could result in damage to the wallbox, and could cause injuries or death.

- › Make sure that the wallbox never comes into direct contact with heat sources.
- › Do not use explosive or readily flammable substances near the wallbox.

Using the wallbox under conditions not specified in this manual could result in damage to the wallbox, which could cause injury or death.

- › Only use the wallbox under the specified operating conditions, see Technical specifications in the chapter Product information.



Caution

Putting fingers into or leaving other objects inside the plug port could cause injury or damage to the wallbox.

- › Do not put your fingers or objects into the plug port.

A front assembly with cracks in the glass could cause the wallbox to become a hazardous object, and could result in the risk of injuries.

- › If the glass of the front assembly breaks, have the front assembly replaced immediately by a certified electrician.



Notice

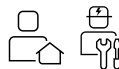
Charging the electric vehicle with the charging cable not being completely unwound may result in overheating of the cable, which could damage the wallbox.

- › Make sure to completely unwind the charging cable and avoid overlapping loops before charging the electric vehicle.

Transport and storage

- › Disconnect input power before removing the wallbox for storage or relocation.
- › Only transport and store the wallbox in its original packaging.
- › Store the wallbox in a dry environment in the temperature range given in the technical specifications (see page 11).

Product information



The table below contains the available product configurations for the Audi Wallbox models.

Features	Audi Wallbox	Audi Wallbox plus	Audi Wallbox pro
Maximum output power 7.4 kW (1-phase)	•	•	•
Maximum output power 11 kW (3-phase)	•	•	•
Attached charging cable Type 2 (4.5 m or 7.5 m)	•	•	•
Alternating Current (AC) charging	•	•	•
Integrated Direct Current (DC) fault current detection	•	•	•
Wi-Fi / Ethernet communication	–	•	•
LTE mobile network communication	–	•*	•
Data transfer via Audi Backend	–	•	•
Access control with charge card	–	•	•
Remote access via myAudi App	–	•	•
Remote software update / diagnostic	–	•	•
MID certified power consump- tion recording and calculation	–	–	•

*Option

Technical specifications

Electrical properties

Powerline input	1-phase, 230 V, 32 A, 50 Hz.	3-phase, 400 V, 16 A, 50 Hz.
Charging power	7.4 kW (1-phase - 32 A).	11 kW (3-phase - 16 A).
Charge mode	Mode 3 (IEC 61851)	
Fixed charging cable	Type 2 plug (IEC 62196-2).	
Number of fixed charging cables	1.	
Charging cable length	4.5 m or 7.5 m.	
Installation wiring	16 A installation input terminals: 1 - 6 mm ² .	32 A installation input terminals: 1 - 10 mm ² .
Metering (only applies to Audi Wallbox pro)	MID-certified kWh meter	

Safety and certification

Upstream installation protection	Minimum dedicated 1-phase 32 A (32 A station) or 3-phase 16 A (16 A station) upstream circuit breaker and at minimum RCD type A (30 mA AC). Check local installation requirements if additional measures are required.
Static power limitation	Via DIP-switches.
Dynamic power limitation	Via CT coils – optional comfort feature.
Earth leakage sensor (ELS)	6 mA DC
Ground loss monitor	Physical connection monitoring, without ground quality monitoring.
CT coils supported	Invasive / non-Invasive - 40 A - 200 A, brands: VAC, LEM, and Nidec. See chapter Set DIP-switches (chapter 7) for the supported models.
Operating temperature range	-30 °C - +50 °C.
Storage temperature range	-30 °C - +85 °C.
Operating humidity	Max. 95 % - non-condensing.
Maximum installation height	Max. 4000 m above sea level.
Enclosure ratings	IP54 (IEC 60529), IK10 (IEC 62262).

Safety Class	Safety Class I (the wallbox is equipped with a ground terminal for safety) and overvoltage Category III.
Power supply input	EV Supply equipment permanently connected to AC supply network.
Normal Environmental conditions	Outdoor use.
Access	Equipment for locations with non-restricted access.

Connectivity (Only applies to Audi Wallbox plus and Audi Wallbox pro)

Authorization	RFID (ISO 14443, ISO 15693).
Wi-Fi	2.4 / 5 GHz, only WPA2 (IEEE802.11 a - ax)
Ethernet	Via RJ45 connection, 10/100 Mbit/s / 100BASE TX (IEEE 802.3u)
Mobile network	2G / LTE
Communication protocol to Elli Backend	OCPP 2.0.0
Communication protocol to Home Energy Management System	EEBus.
Local configuration	via Configuration Manager

Physical properties

Housing	Polycarbonate.
Status indication	HMI (Human Machine Interface): LED based HMI
Front panel	Polycarbonate and hardened glass.
Bezel	Acrylonitrile Styrene Acrylate (ASA).
Mounting bracket	Steel (zinc plated).
Dimensions (W x H x D)	297 mm x 406 mm x 116 mm.
Weight	1-phase 32 A station with 4.5 m charging cable ~ 6 kg.
	1-phase 32 A station with 7.5 m charging cable ~7 kg.
	3-phase 16 A station with 4.5 m charging cable ~ 6 kg.
	3-phase 16 A station with 7.5 m charging cable ~ 7 kg.
Mounting method	Stationary equipment, mounted on walls (preferred method), poles or equivalent positions – surface mounted.
Color	Platinum gray with electric white bezel.



Charge with the wallbox



Warning

Using a damaged wallbox (e.g. expanded housing, crack in the cable, etc.) may expose the user to electric components and could result in the risk of electric shock, which could cause injury or death.

- › Always check that the wallbox is free of damage before starting a charging session.
- › Make sure that the charging cable cannot become damaged (kinked, jammed or driven over).
- › Do not operate the wallbox if it is physically damaged.
- › Take precautions so that the charge plug does not come into contact with heat sources, dirt or water.
- › Always check that the contact area of the charging plug is free from dirt and moisture before starting a charging session. Use the cable cap to protect the plug from dirt.



Start and stop a charging session

Start charging



Fully unwind the charging cable from around the wallbox.



Remove the cap from the charging cable plug, then connect the charging cable to your vehicle.



Optionally, hold your charge card in front of the reader on the wallbox or use your myAudi app to start charging.*

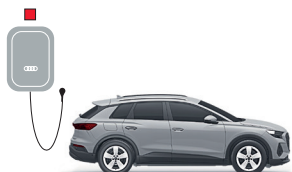
Your car is charging.



Stop charging.



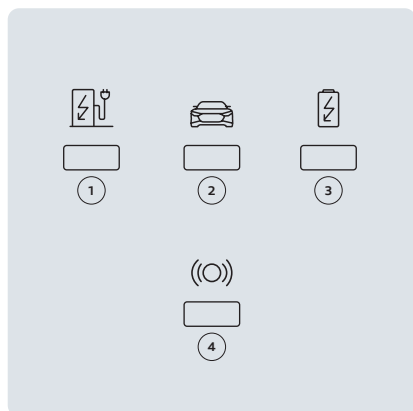
Optionally, hold your charge card in front of the reader on the wallbox or use your myAudi app to stop charging.*



Disconnect the charging cable from your vehicle. Install the cap on the charging cable plug, then wind the charging cable around the wallbox. Make sure that the plug does not touch the ground when stowed.

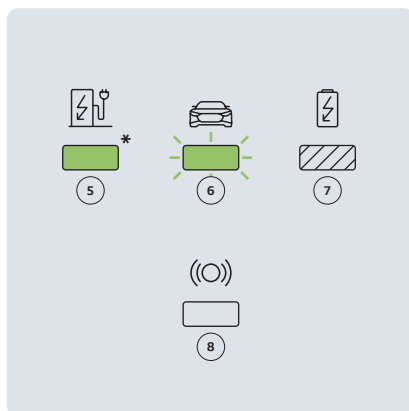
* For Audi Wallbox plus and Audi Wallbox pro only.

Status indication



LED description

- ① Wallbox state
- ② Vehicle state
- ③ House state
- ④ RFID state



LED states

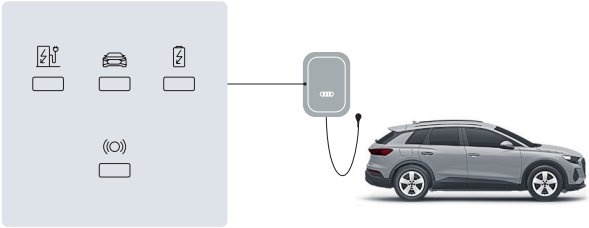
- ⑤ Solid LED
- ⑥ Flashing LED
- ⑦ State remains unchanged
- ⑧ Off

* Green light is exemplary, blue, yellow and red lights are possible as well. Please refer to the colour in the states described below.

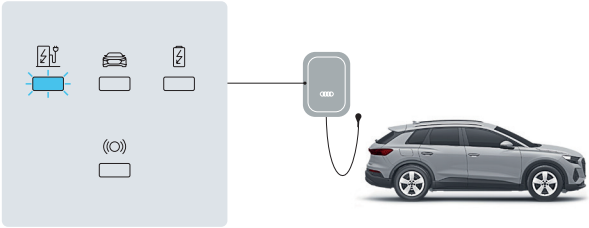
State description

Display

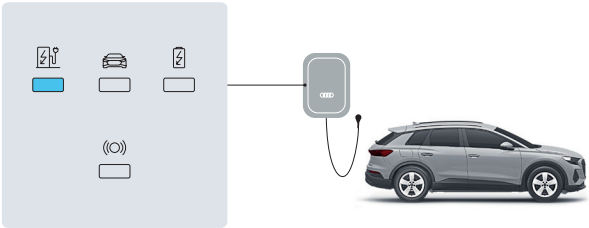
Off or energy saving



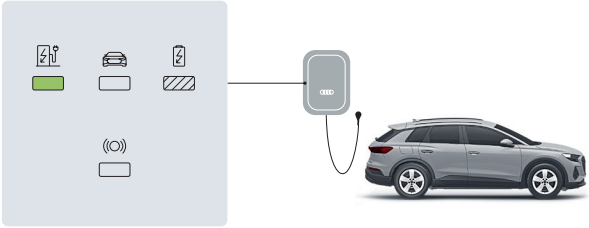
Wallbox is starting up.
Wait until the wallbox is ready to charge.*



Configuration Manager
accessible via Wi-Fi
hotspot. Be aware that
charging is not possible
during this state.*

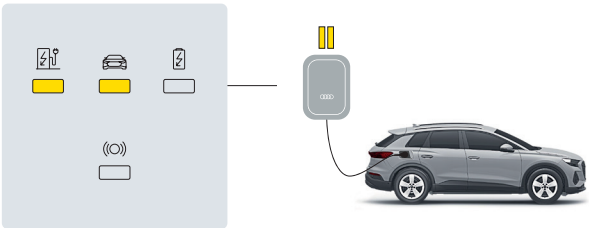


Idle - ready to charge.



1. Vehicle connected,
charging paused by
wallbox or infrastructure.
The charging session will
continue when allowed.

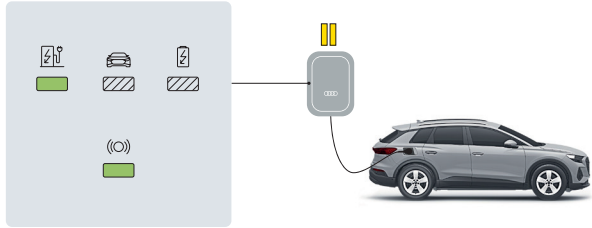
2. Vehicle connected,
charging stopped by app.
The charging session
will continue when cable
is un- and replugged.
Instant charging.



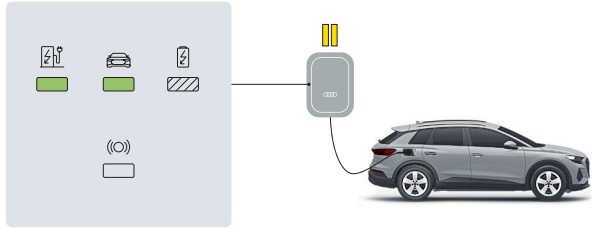
State description

Display

Vehicle connected,
charging paused by
app or charge card. The
charging session will
continue when allowed.
Private charging.

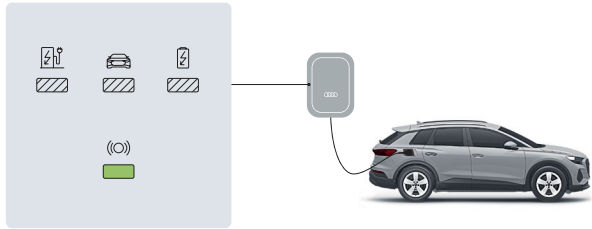


Vehicle connected, not
charging, vehicle
paused / fully charged.

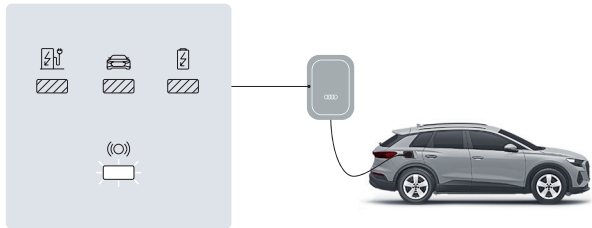


Waiting for charge card
input or remote authori-
zation.*

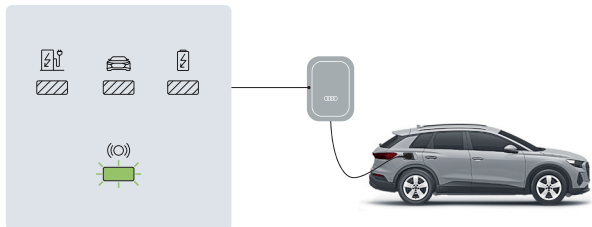
Vehicle connected, stop
charging with charge card
or remote authorization
accepted.*



Vehicle connected,
authorization pending.*



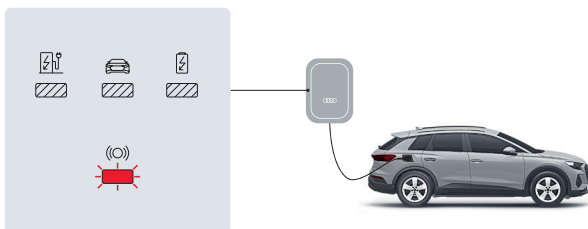
Authorization /
Remote Start resp.
Deauthorization /
Remote Stop accepted.*



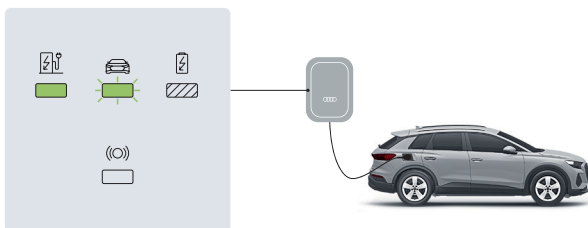
State description

Display

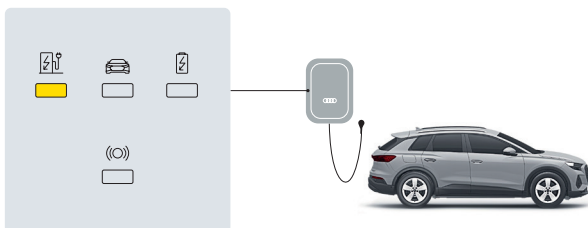
Vehicle connected,
authorization via charge
card / app rejected.*



Vehicle connected,
charging.



Software update in
progress.



Ready for charging in
“Private charging” mode.
Connect the vehicle. The
charging session will
begin once authorization
is granted.



ⓘ If the wallbox shows other states than the ones described above, see chapter Troubleshooting for more information.

* For Audi Wallbox plus and Audi Wallbox pro only.

Configure Audi Wallbox plus and Audi Wallbox pro



The smart charging functionalities can be configured using the Configuration Manager and the myAudi app.

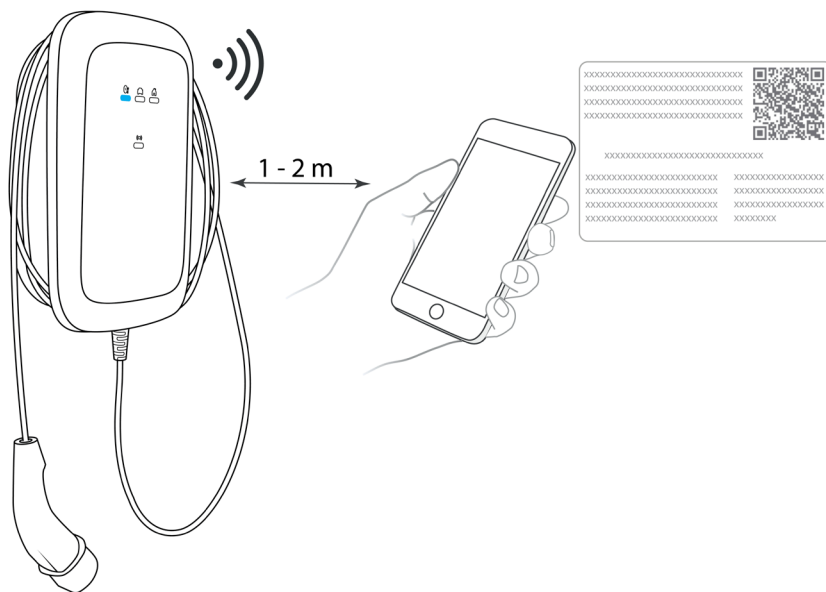
① To use smart charging functionalities, connecting and configuring the Audi Wallbox plus and Audi Wallbox pro to the internet and into the local network is required.

① The compatible, EEBus-capable home energy management system (HEMS) must be on the same local network as the Audi Wallbox plus and Audi Wallbox pro. Functionalities depend on the HEMS used.

Configure the Audi Wallbox plus and Audi Wallbox pro locally

PRECONDITION: The wallbox is installed and you have the configuration sticker which is supplied with the wallbox.

1. If the input power to the wallbox is on, switch it off at the power supply cabinet. Then switch the input power on again.
2. The LED indicating the wallbox's state shows solid blue and the Configuration Manager is accessible. The Configuration Manager is accessible for five minutes by default. To allow configuration of a connected device, the Wi-Fi Hotspot access extends to 30 minutes. Be aware that charging is not possible during this state.
3. Stand close to the wallbox (1-2m) with your mobile device.
4. Connect to the Wi-Fi Hotspot listed on the Configuration Sticker (see page 22).
5. Open any internet browser on your mobile device and enter the IP-Address for the Configuration Page: 192.168.123.4
6. Press "accept" in the browser prompt to continue.
7. Use the Configuration Page Password shown on the Configuration Sticker to log in to the Configuration Manager.
8. Configure the settings of the wallbox according to your requirements:
 - a. Establish an internet connection for the wallbox, e.g by setting access parameters to your local network (Wi-Fi or LAN). It is not recommended to use guest networks.
 - b. Set your personal preferences, for example: language, log-in password, use of charge cards for access control.



Configuration Manager

Read these instructions before installation and configuration of the Audi Wallbox.

① The local configuration of the Audi Wallbox is only possible for the connective versions of the wallbox, i.e. Audi Wallbox plus and Audi Wallbox pro. The Audi Wallbox is not equipped with a communication board and therefore, not capable to offer any connectivity functionality.

Distinction of the Configuration Manager and the myAudi app

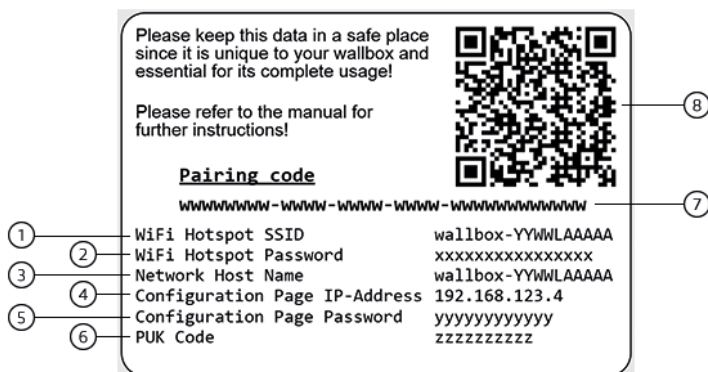
The Audi Wallbox's Configuration Manager is a local configuration tool with the main objective to establish the Audi Wallbox's connection to the Audi Backend over the internet and if available, an energy management system. In addition, the Configuration Manager provides multiple functions to perform local settings and troubleshooting.

The Configuration Manager does not intend to give insight into the Audi Wallbox's usage or charging management. These functions, e.g. granting access for specific charging cards or gain insight into the charging history, are to be found in the myAudi app.

The Configuration Manager is intended for users during initial installation of the Audi Wallbox as well as for certified electricians during maintenance and troubleshooting.

Configuration Sticker

A Configuration Sticker is delivered with every Audi Wallbox plus and Audi Wallbox pro. This sticker contains all credentials that are unique to each Audi Wallbox. These unique credentials are network parameters, passwords, and other codes. The figure below provides an overview of the Configuration Sticker, and the table provides an explanation of the data listed on the sticker.



No	Date	Explanation and Intended Use
1	WiFi Hotspot SSID	SSID of the Audi Walbox's local configuration hotspot (Active upon power on)
2	WiFi Hotspot Password	Password to connect to the Audi Walbox's local configuration hotspot
3	Network Host Name	Unique name of the Audi Walbox to access it within the local network
4	Configuration Page IP-Address	IP-Address to access the Configuration Manager using a browser while connected to the WiFi Hotspot
5	Configuration Page Password	Initial password to log into the Configuration Manager
6	PUK Code	Code to reset a changed Configuration Page Password to the initial one
7	Pairing Code	Manual identification of the individual Audi Walbox during pairing process in the myAudi app
8	QR Code	Automatic identification of the individual Audi Walbox during pairing process in the myAudi app

The Pairing Code and QR Code are for explicit identification of the individual Audi Wallbox within the myAudi app. This code is not needed to use the Configuration Manager

Accessing the Configuration Manager

In order to access the Configuration Manager, the Audi Wallbox offers two possibilities:

- › via the Audi Wallbox's Wi-Fi Hotspot (activated upon powerup)
- › using the Audi Wallbox's IP-Address or hostname via the local network

The Audi Wallbox's Hotspot is always activated after the Audi Wallbox has started up when being (re-)connected to the power supply. For accessing the Configuration Manager via the local network, the Audi Wallbox must already be connected to this network. Therefore, this is only possible after an initial setup, through the Wi-Fi hotspot.

① Audi recommends using Chrome or Firefox as browsers to connect to the Configuration Manager. Before connecting to the Configuration Manager, all other browser windows and tabs should be closed. In addition, it is advised to clear the browser's cache.

Via Wi-Fi hotspot

For further information see also chapter Configure the Audi Wallbox plus and Audi Wallbox pro locally.

1. Enable the Audi Wallbox's Wi-Fi hotspot.

- a. If the input power to the Audi Wallbox is on, have it switched off at the power supply cabinet.
- b. Have the input power of the Audi Wallbox switched on.
- c. Wait until the LED, indicating the Audi Wallbox's state, turns solid blue and the Configuration Manager is available.

① When accessing the Configuration Manager with a mobile device, make sure to only have the Wi-Fi interface active. Turn off all other cellular network interfaces.

2. Connect to the Wi-Fi Hotspot.

- a. Have the device scan for Wi-Fi networks.
- b. Select the Audi Wallbox's Wi-Fi Hotspot SSID.
- c. Enter the WiFi Hotspot Password
- d. Confirm selection and proceed.
- e. Ensure for correct connection of the device to the Audi Wallbox by double checking what network the device is connected to.

3. Navigate to the Configuration Manager

- a. Open a browser, preferably Chrome or Firefox.
- b. Enter the Configuration Page IP-Address (192.168.123.4) in the navigation bar.
- c. Eventually, confirm the safety warning of the browser and continue.

Via Local Network

Once the Audi Wallbox has been connected to the local network via Wi-Fi or Ethernet, the Configuration Manager can be accessed from any other device, preferably a PC, that is also connected to the same network.

Audi Wallbox's Hostname

The Configuration Manager can be accessed using the Audi Wallbox's Network Host Name. Enter the hostname into the browser's navigation bar, prepending "https://" and appending ".local" in order to open the Configuration bar.

Example:
Audi Wallbox's Network Host Name:

› wallbox-2018abc123

To enter in the browser:

› https://wallbox-2018abc123.local

① Some local networks do not support Host Name lookup. In this case, reference the local network routers configuration page to identify the Audi Wallbox's IP-Address.

Audi Wallbox's IP-Address

Alternatively, the Configuration Manager can be accessed using the Audi Wallbox's IP-Address. This address is assigned by the local network. Reference the local networks configuration page to identify the Audi Wallbox's local network IP-Address.

 The Audi Wallbox's local IP-Address will not be the same as the Configuration Page IP-Address.

 For the Wi-Fi and Ethernet interface, the Audi Wallbox uses automatic network settings (DHCP) by default but can be set to static for self-managed settings. Be aware of possible address conflicts on the local network if the Audi Wallbox is assigned to an already used IP-Address.

Connecting the Audi Wallbox to the Internet

After having connected to the Audi Wallbox and navigated to the Configuration Manager according to section Accessing the Configuration Manager, the login screen illustrated in the figure below is shown in the browser. If the login screen looks differently, see section Connecting the Audi Wallbox to an Energy Management System for further instructions.

 If you do find the Login screen of the Configuration Manager to look differently, the Audi Wallbox is still equipped with an outdated software version. This might imply, that connecting the Audi Wallbox to local network will only be possible after a software update. To make sure the update can be installed please connect the Audi Wallbox to the internet as described.

After the connection has been established, please log out and wait a few minutes so the Audi Wallbox has time to update and reboot.

1. Enter the Configuration Page Password to log in.
2. Navigate through the Configuration Manager's menu Connectivity.
3. Choose and set up the desired connection interface.



Welcome to the Configuration Manager

Enter the current password
Your password

[Forgot your password?](#)

Don't want to configure now? [Close Hotspot](#)

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Wi-Fi

1. Make sure that the LTE interface is disabled.

- Click on the tab “LTE”.
- Check that LTE is disabled.
- Optional, click on the button “TURN OFF LTE”
- Wait for the Audi Wallbox to close existing mobile network connections, this may take up to one minute. Eventually, refresh the page.

2. Click on the tab “WIFI”.

3. Select the target Wi-Fi network.

- Wait for the Audi Wallbox to search for available networks, this may take up to one minute.
- If needed, click the “SCAN FOR NETWORKS” button to (re-)trigger a network search.
- Select the local network SSID you need to connect to.
- Enter the local network’s password.

4. Confirm the selection and proceed.

5. Click the “LOGOUT” button.

LTE

① The LTE capability is only available for the Audi Wallbox pro by default.

1. Click on the tab “LTE”.

2. Enable the LTE interface.

- Click on the button “LTE”.
- Wait for a few seconds to give time for the Audi Wallbox to search for the mobile network and connect. This may take up to one minute.
- Eventually, refresh the page.

3. When the Configuration Manager states “Connected”, click the “LOGOUT” button.

Ethernet

To establish an internet connection via Ethernet, the Audi Wallbox, Ethernet cable, and Router already need to be connected before configuration. The Audi Wallbox will then automatically connect to the network, once started up.

1. Make sure that the LTE interface is disabled.

- Click on the tab “LTE”.
- Check that LTE is disabled.
- Optional, click on the button “TURN OFF LTE”.
- Wait for the Audi Wallbox to close existing mobile network connections, this may take up to one minute. Eventually, refresh the page.

2. Click on the tab “Ethernet”.

3. Check for the correct settings and change if necessary.

4. When done, click the “LOGOUT” button.

Check for Correct Connection

1. Wait for the LED indicating the wallbox state on the front of the Audi Wallbox to become solid green.

2. Connect to your network with another device, e.g. the PC used to configure the Audi Wallbox.

3. Check for the presence of the Audi Wallbox in the network.

- Look for its Network Host Name in the router’s network manager.
- Alternatively, open a browser and try to access the Audi Wallbox with its Network Host Name via the local network as described in section Via Local Network.

4. If the Audi Wallbox is successfully connected to the network, the Audi Wallbox is ready to be paired with the myAudi app. If the Audi Wallbox is not connected to the network, repeat the steps from chapters Accessing the Configuration Manager (page 23) and Connecting the Audi Wallbox to the internet (page 24).

Connecting the Audi Wallbox to an Energy Management System

Before you connect your Audi Wallbox to the energy management system. Please consider the following framework conditions:

- › The energy management systems must have the EEBus communication protocol.
- › The Audi Wallbox must be connected to your local network via Ethernet or Wi-Fi (LTE is not possible).
- › Your energy management system must be in the same network as the Audi Wallbox.
- › It is only possible to connect the Audi Wallbox to one energy management system at a time.
- › Do not use CT Coil in parallel with the energy management system (otherwise the lower current setpoint for load management will be considered).

1. Navigate through the Configuration Manager's menu Energy Manager.

2. Select the target Energy Manager you want to connect.

- a. Wait for a few seconds as the Audi Wallbox will scan for available EEBus devices in the network.
- b. If needed, click the "Refresh" button to (re-)trigger a network search.

 If your energy management system is not shown in the list, please make sure, that your energy management system is already in the pairing-mode.

- c. All available EEBus devices are shown in the list.
- d. If you click on the "extend" arrow, you will see more information about the corresponding energy management system, like the "Device ID", "Brand", "Model" and the "Type" (if the device provides them).
- e. If you have chosen the one you want to start the connection, please select it by clicking on it and confirm by clicking on the "Pair device" button.

3. Confirm that the selected energy management system is the right one.

- a. You will see a popup window that requests you to do a visual check of the SKI-Number (Identification number) of the energy management system.
- b. You must compare the number shown in the popup to that one your energy management system provides you.
- c. Depending on your energy management system, you will find this SKI-Number either printed on the device itself, on a sticker or in the user interface of the device (maybe in a menu called like "EEBus connection" or "charging equipment"). If you can't find it, please contact your energy management system provider.
- d. If you have compared the two numbers and they correspond, click on the "Confirm" button. If they don't match, click "Abort" and check if you have chosen the right energy management system.
- e. After you confirmed the popup, you will see a notification, that informs you, that the pairing process was successful.

4. Get the status information of your energy management.

- a. You will see in the menu Energy Manager the information about the paired energy management system.
- b. Within the "Status" field, you get the information, if your energy management system is connected to the Audi Wallbox, or not.
- c. If it is not connected, please check the availability of the energy management system and the connection status in the user interface of your energy management system.

 If you have paired an energy management system, but you are not connected to it, the Audi Wallbox will enter the fallback mode and only allow charging with 6A charging current per phase and the house-LED is solid yellow.

5. Remove energy management system.

- a. If you want to connect the Audi Wallbox to another energy management system, you must first unpair the previously paired one. After that you will see a list of available energy management systems in the network from which you can select another.
- b. If you want to remove the paired energy management system, click on "Cancel pairing".
- c. If it was successfully removed, you will be informed with a notification, and you again can search for EEBus devices in the network.

Check the Power Settings of the Audi Wallbox

1. **Navigate through the Configuration Manager's menu Power Settings.**
2. **Verify or set the correct DIP-switch settings.**
 - a. If you want to see the DIP-switch configuration without opening the Audi Wallbox housing, you can see here the DIP-switch configuration.
 - b. If you have set the DIP-switches for the configuration of the overload protection to manual configuration ("To be set by user"), you can insert here the correct parameters for your used CT-coils (rated primary current and the turn ratio).
3. **Get information about further settings**
 - a. You get the information if the ground monitoring is enabled or disabled (default set to "enabled").
 - b. You get the information if the overload protection mechanism is enabled or disabled.
 - c. You get the information about the configured maximum charging current per phase (default set to 16A).

Select the Preferred Language

1. **Navigate through the Configuration Manager's menu Language Settings.**
2. **Select the favored language for the Configuration Manager.**

Change the Login Password for the Configuration Manager

1. **Navigate through the Configuration Manager's menu User Preferences.**
2. **In the menu Login Password, you can enter your current password you want to have changed. Then enter your new password twice and confirm with clicking on the "Change Password" button.**

Software Updates and Information

1. **Navigate through the Configuration Manager's menu Maintenance.**
2. **In the menu Device Information, you see the part-/ and serial number of the main-boards, the MAC addresses, and the software version of the installed software.**
3. **In the menu Software Update, you see the software version of the currently installed software. Normally you get software updates automatically. If you have a software file that you want to install manually, you can click on "Browse", select your software file and click on "Upload And Install". The installation will start, and the Audi Wallbox will reboot automatically.**
4. **In the menu Factory Reset, you can reset all settings of the Audi Wallbox to the default settings that are set initially after manufacturing.**

ⓘ The software update will only be installed when no car is plugged. As soon as you unplug your car, the software update process will start.

ⓘ All personal data and custom settings will be lost requiring the configuration of the Audi Wallbox to be redone.

Pair Audi Wallbox plus and Audi Wallbox pro to myAudi app account

To use all online services offered by the Audi Wallbox plus and Audi Wallbox pro, you must link your wallbox to your myAudi account.

1. Download the myAudi app for using the Audi charging services.
2. Create an account or log in.
3. Follow the steps shown in the myAudi app.



Apple App Store



Google Play Store



Prepare for installation

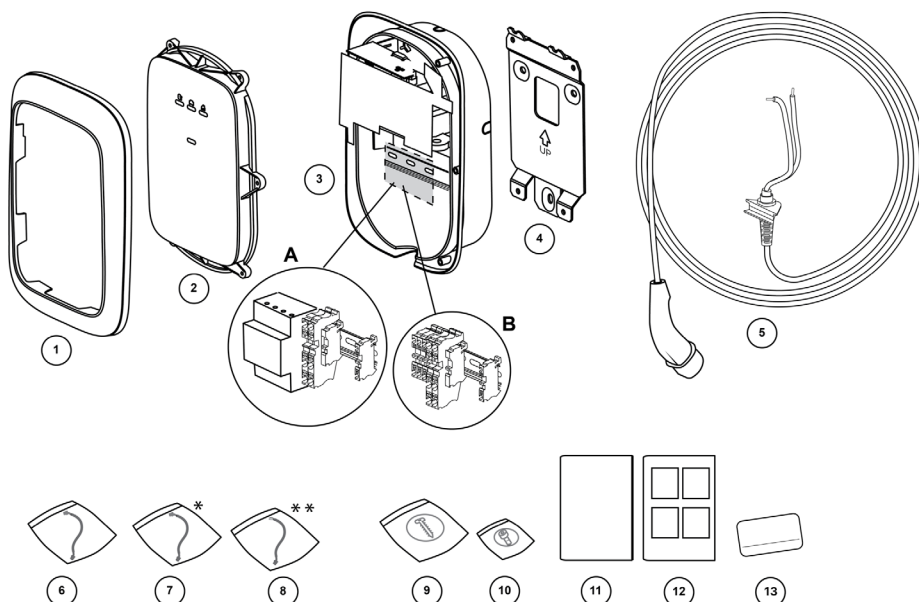


Danger

Not following the instructions given in this document will result in the risk of electric shock to users, which will cause severe injuries or death.

› The installation must only be performed by certified electricians, who can correctly and safely install the wallbox and identify potential danger.

Content of delivery



- | | | |
|---|---------------------------------------|---|
| 1 Bezel | 4 Wall bracket x 1 | 10 Fastening screws for front cover x 1 |
| 2 Front cover x 1 | 5 Charging cable x 1 | 11 Safety Instructions and Quick Installation Guide x 1 |
| 3 Main assembly x 1
A. Audi Wallbox pro with kWh meter
B. Audi Wallbox or Audi Wallbox plus with feed-through terminals | 6 HMI cable x 1 | 12 Installation and User Manual (available online) |
| | 7 RFID cable * x 1 | 13 Charge card * |
| | 8 RS485 cable ** x 1 | |
| | 9 Fastening kit for main assembly x 1 | |

* For Audi Wallbox plus and Audi Wallbox pro only.

** For Audi Wallbox pro only.

Your Audi Wallbox pro comes equipped with a kWh meter. The 1-phase version is compatible with 1-phase and 3-phase kWh meters but the 3-phase version only with 3-phase kWh meters, as shown in the following table.

Possible combinations	1-phase kWh meter	3-phase kWh meter
1-phase Audi Wallbox pro	•	•
3-phase Audi Wallbox pro	–	•

Prerequisites for installation



Danger

Working on electric installations without proper precautions will result in the risk of electric shock, which will cause severe injury or death.

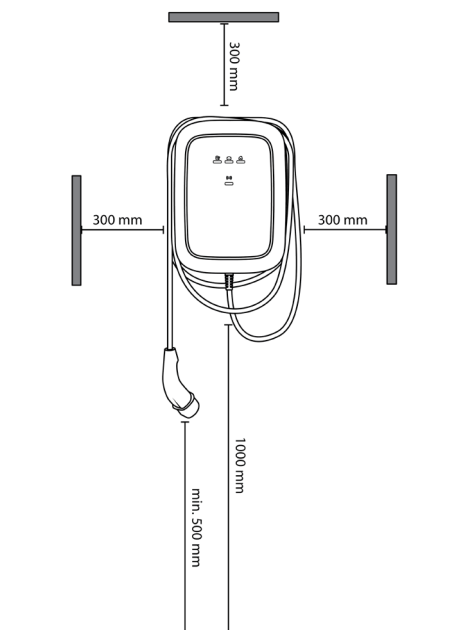
- › Make sure that connection of the electrical power cannot occur during installation.
- › Put up caution tape and warning signs to mark the working areas. Make sure no unauthorized persons enter the working areas.

Choose location

- › Position the wallbox, where possible, in surroundings where it is not exposed to direct sunlight and vulnerable to external damage. Direct sunlight can cause an increase in wallbox temperature, which may impact charging performance.
- › The wall must have a flat structure and must be able to hold a load of at least 100 kg.
- › The minimum free space around the wallbox must be a minimum of 300 mm.
- › Consider the position of the charging port of the vehicle when choosing the installation location of the wallbox.

Pre-installation checklist

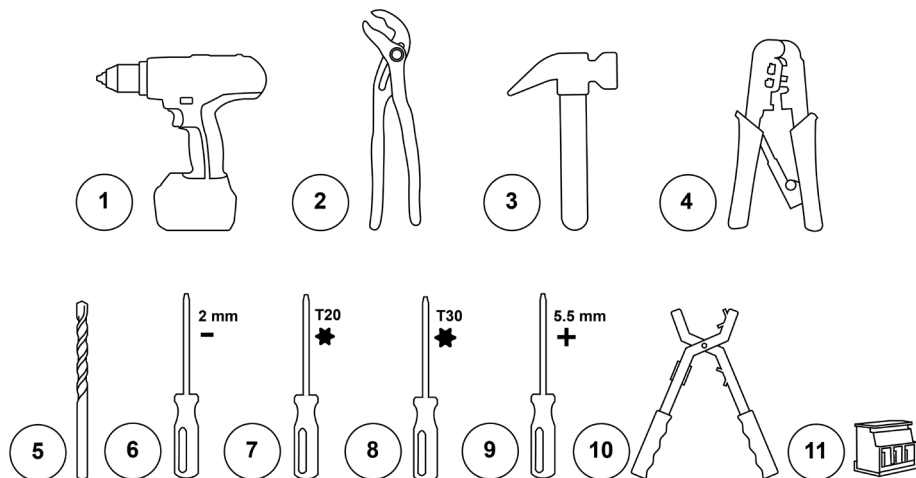
- › The local installation regulations are identified and are followed.
- › A miniature circuit breaker (MCB) and residual current device (RCD) must be installed upstream and have ratings that correspond to the local power supply as well as to the required charging power.
- › The following installation instructions are obeyed.
- › The recommended tools (additional tools needed) are available on site. See chapter Tools and material needed for more information.
- › The plugs, screws, and drill bits to be used for mounting the wall bracket are suitable for the wall structure at the place of installation.
- › The configuration of the supply cable, Ethernet cable (optional) and CT coils (optional) is determined.
- › The Set DIP-switches chapter is consulted for the list of supported CT coils.
- › A single multi-core cable must be used for connecting multiple CT coils for overload protection. See chapter Overload Protection for more information.



① The above illustration above indicates a standard installation height. Observe and comply with the local accessibility regulations. A drilling template for mounting can be found at <https://www.elli.eco/downloads/>

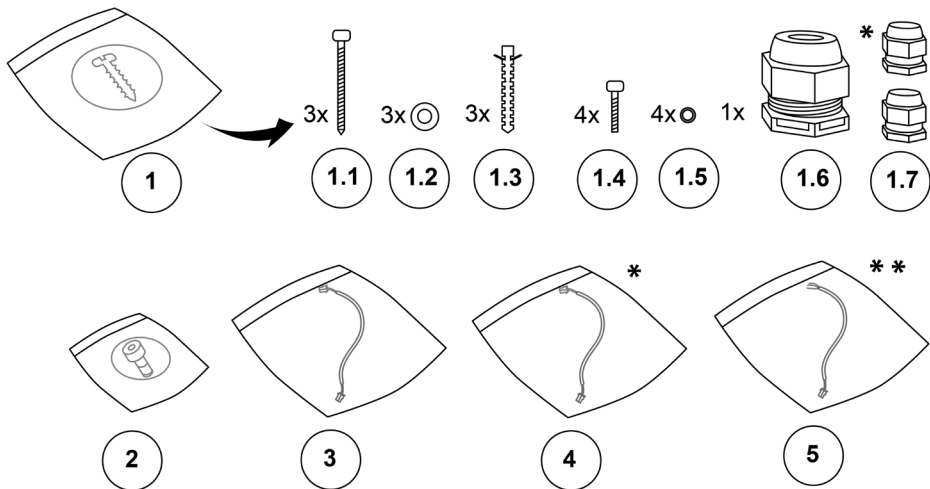
Tools and material needed

A. Additional tools and material needed



- | | |
|---|--|
| <ul style="list-style-type: none"> ① Drill ② Pliers ③ Hammer ④ Ethernet cable crimper ⑤ Drill bit 8 mm ⑥ Screwdriver 2 mm ⑦ Torx screwdriver T20 | <ul style="list-style-type: none"> ⑧ Torx screwdriver T30, with minimum working length of 20 cm ⑨ Screwdriver 5.5 mm ⑩ Cable stripper ⑪ Optional: CT Coil cable connector MCVR 1.5 / 3 - ST - 3.81 <ul style="list-style-type: none"> › 1 x for 1-phase installation. › 3 x for 3-phase installation. |
|---|--|

B. Provided materials



- 1 Fastening kit for main assembly
- 1.1 Screws M6 x 60 mm
- 1.2 Plain washers 6.5 mm x 14 mm
- 1.3 Wall plugs 8 mm x 50 mm
- 1.4 Torx screws M6 x 16 mm
- 1.5 Bonded washers 6.6 mm x 11 mm
- 1.6 Cable gland M25
- 1.7 Cable gland M12 (for CT coil cable)
Cable gland M12 (for Ethernet cable)*
- 2 Torx screws M4 x 10 mm for front assembly
- 3 HMI cable
- 4 RFID cable*
- 5 RS485 cable**

The following table shows the torque values required for installation.

Screw type	Torque value
M4 x 10 mm	2.3 - 2.7 Nm
M6 x 16 mm	7.3 - 8.6 Nm
M6 x 60 mm	8 - 11 Nm

* For Audi Wallbox plus and Audi Wallbox pro only.

** For Audi Wallbox pro only.

Notice on installation



Warning

Connecting the wallbox to the power supply other than as specified in this section could result in incompatibility of the installation as well as the risk of electric shock, which could cause damage to the wallbox, and injury or death.

› Only connect the wallbox to a power supply in a configuration that is specified in this section. (see Option 1, 2 and 3)

Installation advice

Ground	TN-system	PE-cable
	TT-system IT-system	Earth electrode installed separately (to be installed)
Input	1-phase	230 V $\pm$ 10 %, 50 Hz
	3-phase	400 V $\pm$ 10 %, 50 Hz
MCB	C-characteristic (MCB must be selected to match the amperage settings of the wallbox, considering MCB manufacturer specifications)	
RCD	40 A, 30 mA, AC Type A	

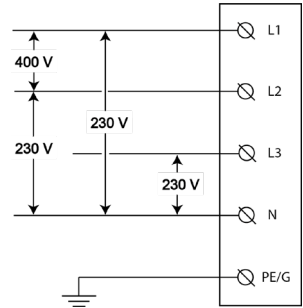
ⓘ For a TT or IT electric grid with 230 V from line to line, the wallbox must be installed with one phase being connected to clamp L1 and the other phase being connected to clamp N.

ⓘ Make sure that the provided ground connection meets the local regulations. The ground loss monitor functionality of the wallbox is limited to physical ground loss detection and cannot detect quality.

Power supply wiring

Option 1: 400 V 3-phase with neutral

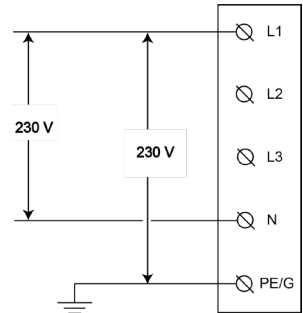
For 3-phase use of a Wye-connected secondary, all three phases (L1, L2 and L3) and neutral must be connected. Each phase voltage must measure 230 V to neutral.



Option 2: 230 V 1-phase with neutral

For 1-phase use of a Wye-connected secondary, only a single phase (L1 or L2 or L3) and neutral on the grid must be connected to the L1 and N on the terminal block of the wallbox. This phase voltage must measure 230 V between line and neutral.

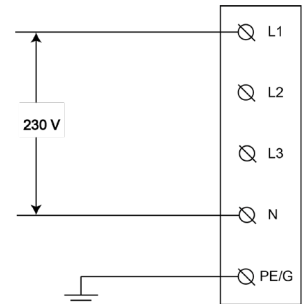
ⓘ Make sure to connect the single phase power supply to L1 of the wallbox (not L2 or L3), as the internal electronics of the wallbox are supplied from L1.



Option 3: 230 V 1-phase without neutral

In this configuration (without neutral and 230 V from line to line), connect any two lines (L1, L2 or L3) of the grid to L1 and N on the terminal block of the wallbox.

ⓘ Make sure to connect the single phase power supply to L1 of the wallbox (not L2 or L3), as the internal electronics of the wallbox are supplied from L1.





Install wallbox



Danger

Working on electric installations without proper precautions will result in the risk of electric shock, which will cause severe injuries or death.

- › Switch off input power before installing the wallbox. Keep the power off until the wallbox is fully installed with its front cover installed and secure.
- › Do not switch on the wallbox if the front cover is not installed or not secure.
- › Do not install a faulty wallbox or a wallbox with a noticeable issue.

Installation or repairs by a non-certified electrician will result in the risk of electric shock, which will cause danger to the user, severe injuries or death.

- › The installation must only be performed by certified electricians.



Notice

Not taking precautions against ESD (Electrostatic discharge) could damage electronic components in the wallbox.

- › Take the necessary precautions against ESD before touching electronic components.

Using other materials than those specified in this manual for installation, operation, maintenance and/or service of the wallbox could result in damage to the wallbox.

- › Do not use other materials than specified in chapter Prepare for installation, especially materials containing silicone or phosphorus, as they can damage the wallbox.



Warning

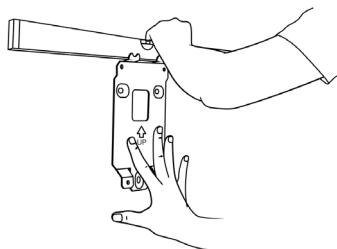
Installing the wallbox in direct exposure to moisture and wet conditions (for example rain or fog) could result in the risk of electric shock and damage to the product, which could cause severe injuries or death.

- › Do not install the wallbox in direct exposure to moisture and wet conditions (for example rain or fog) and do not open the wallbox in such conditions.

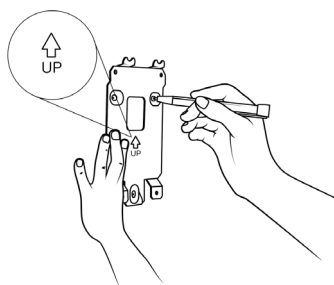
Install wall bracket

Place the wall bracket on the wall and use a bubble level to align it. Make sure that the UP arrow on the bracket points upwards.

1. Mark the positions of the three attachment holes on the wall.



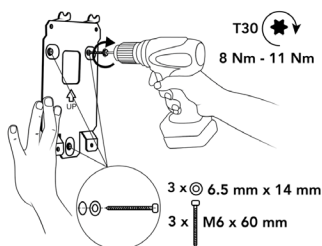
2. Prepare the attachment holes.
 - a. Drill the three attachment holes.



- b. Insert wall plugs

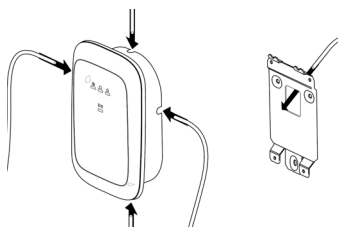


3. Mount the wall bracket on the wall using the three screws M6 x 60 mm and three washers 6.5 mm x 14 mm.

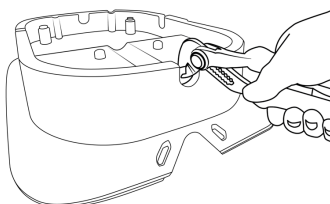


Prepare main assembly for installation

1. Prepare main assembly for cable installation.
 - a. Choose the suitable routing method for the supply cables.



- b. If using on-wall wiring, remove one of the four break-out tabs using a set of pliers.



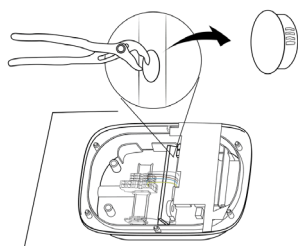
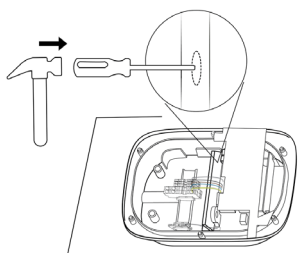
Warning

Leaving sharp edges after removing the break-out tabs can cause damage to the cables which could result in the risk of electric shock, which could cause severe injury or death.

- › Make sure that no sharp edges are left after removing the break-out tabs.

 It is recommended to remove the bottom break-out tab and route the supply cable through the bottom tab (if applicable).

c. Optionally, remove knockouts.



Warning

Removing more knockouts and/or blind plugs than necessary for cable routing and leaving open holes will affect the protection against moisture of the wallbox, which could result in the risk of electric shock, which could cause severe injury or death.

- › Only remove the knockouts necessary for cable routing.
- › Seal open holes with blind plugs if they are not necessary for cable routing.

- I. Place the wallbox on a smooth flat surface.
- II. Place a wide-head screwdriver (for example T30) into the slot of the knockout that is to be removed.
- III. Hit the end of the screwdriver with a hammer to shear the knockout. Remove the rest of the knockout by hand if necessary and make sure that there are no burrs present.

 If the holes needed for cable routing are already sealed with blind plugs, remove these blind plugs using a pair of pliers.

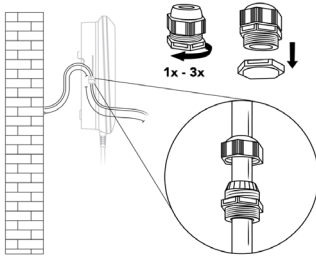
2. Mount cable glands and route cables:

Warning

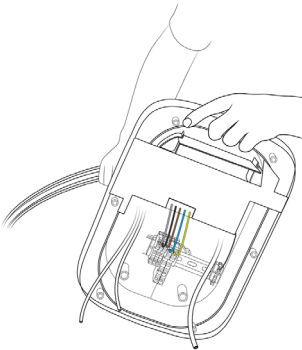
Not using round cables for installation and mounting the sealing nuts of the cable glands incorrectly will affect the protection against moisture of the wallbox, which could result in the risk of electric shock, which could result in a risk of injury or death.

- › Use round cables for installation.
- › Make sure that the sealing nuts are mounted on the outside of the wallbox.

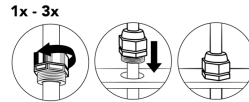
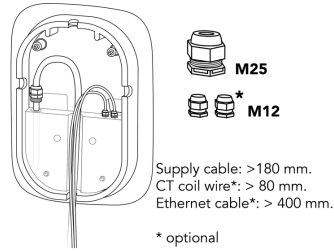
- a. Remove the lock nuts from the cable glands and mount the cable glands on the power supply cable and (optionally) on the CT coil cable and Ethernet cable with their sealing nuts on the outside of the wallbox.



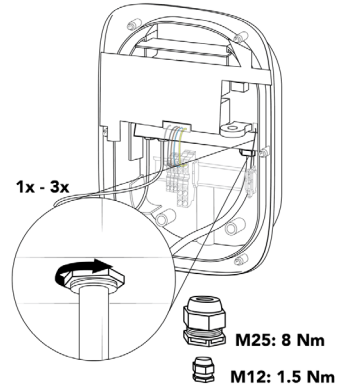
- b. Insert the supply cables from the back of the wallbox through the cable opening of the main assembly.



- c. Make sure the following lengths of cables are available after the cable glands, then tighten each cable gland.
- > Power supply cable: > 180 mm.
 - > CT coil cable (optional): > 80 mm.
 - > Ethernet cable (optional): > 400 mm.

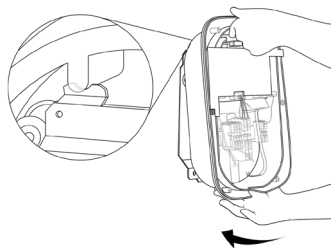


- d. Secure the cable glands by tightening their lock nuts.



Mount main assembly onto wall bracket

1. Engage the top edge of the main assembly with the top of the wall bracket and then rotate the main assembly so it is flat on the wall bracket.



2. Mount main assembly.



Warning

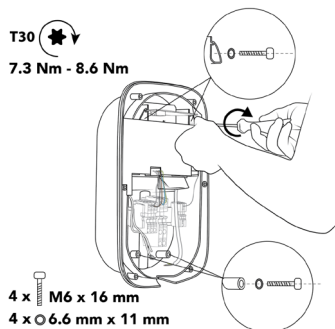
Not mounting all the screws and washers on the inside of the main assembly when mounting it onto the wall bracket will affect the protection against moisture of the wallbox, which could result in the risk of electric shock, which could result in a risk of injury or death.

- › Make sure that all screws together with their corresponding washers are mounted.

While holding the main assembly in place, insert the four screws M6 x 16 mm together with the bonded sealing washers 6.6 mm x 11 mm and fasten them.



7.3 Nm - 8.6 Nm



4 x M6 x 16 mm
4 x 6.6 mm x 11 mm

Assemble wallbox

1. Install power supply cable.

	 Solid wire	 Stranded wire	 Uninsulated ferrules	 Insulated ferrules
1-phase mains	✓	✗	✗	✓
3-phase mains	✓	✗	✓	✗
CT coil	✓	✗	✓	✓

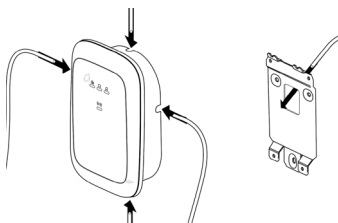


Notice

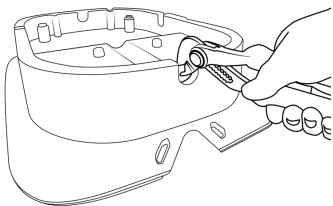
Using stranded wires without ferrules may result in improper installation, which could cause accelerated aging of electric components and/or loss of electric connection.

- › Use crimped insulated ferrules for 1-phase installation.
- › Use crimped uninsulated ferrules for 3-phase installation.

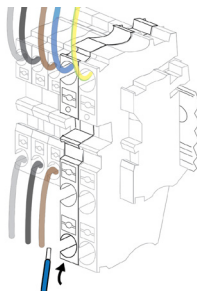
- a. Strip the outer insulation of the cable to a length of 50 mm, then strip the individual wires to 12 mm.



- b.** Route the cables to their connection terminals. Ensure that the bending radius is within the limits for the cable type.



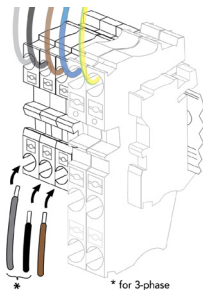
- b.** Connect Neutral (N) wire of the power supply cable to the N feed-through terminal.



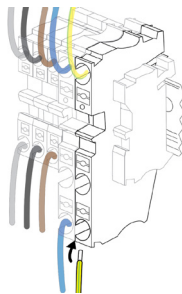
- c.** Connect the wires according to the Audi Wallbox model and the color coding table below.

A. Audi Wallbox and Audi Wallbox plus without kWh meter:

- a.** Connect L1 (and L2 and L3 - for 3-phase version) wire(s) of the power supply cable to L1, L2, L3 slots of the feed-through terminals.

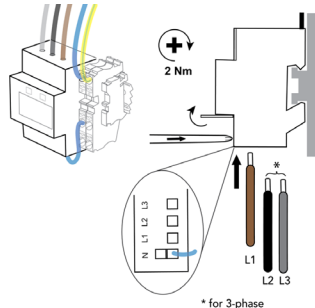


- c.** Connect PE wire of the power supply cable to the first available slot of the PE feed-through terminal.

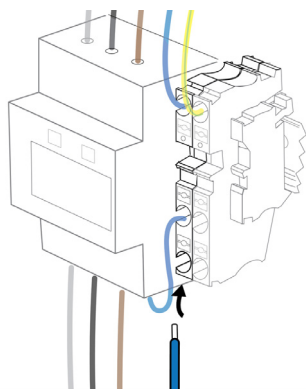


B. Audi Wallbox pro with kWh meter

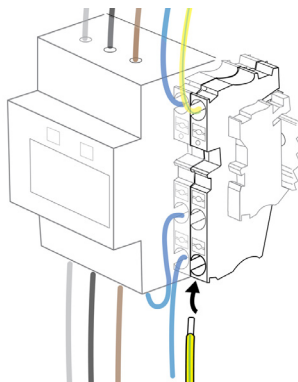
- a. Connect L1 (as well as L2 and L3 - for 3-phase version) wire(s) of the power supply cable to L1, L2, L3 terminals of kWh meter.



- b. Connect Neutral (N) wire of the power supply cable to the N feed-through terminal, located next to the kWh meter.



- c. Connect PE wire of the power supply cable to the first available slot of the PE feed-through terminal, located next to the kWh meter.

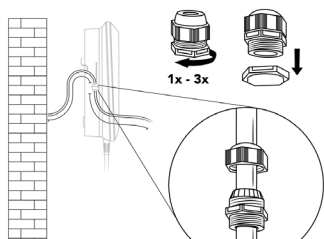


Color coding for power supply cable

Wires	L1	L2	L3	N	PE
Color	Brown	Black	Grey	Blue	Green/ Yellow

i If the wallbox is not equipped with feed-through terminals or a kWh meter, strip the individual wires to 15 mm (1-phase wallbox) or 10 mm (3-phase wallbox). Afterwards, connect the supply cable wires directly to the connection terminals on the lower central part of the power board according to the stated color coding.

2. Optionally, install and connect the CT coil cable
 - a. Strip the outer insulation of the cable to a length of 50 mm, then strip the individual wires to 7 mm.



- b. Connect the signal wires.

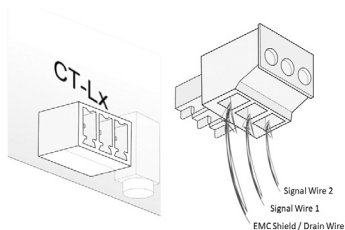
! Notice

Connecting the signal wires of the CT-coils incorrectly may result in improper installation, which could cause the wallbox to exceed the configured maximum charging current.

- › Make sure that the signal wires of the CT-coils are connected to the middle and right pins on the power board connector. The left pin is reserved only for shield connection of such wires.

Insert the CT coil cable into the PCB connectors (MCVR 1.5/ 3-ST-3.81) and secure the wires using a screwdriver.

- c. Connect the PCB connectors to the power board.



3. Install and connect charging cable.

! Warning

An incorrect routing of the wires of the charging cables will result in improper installation, which could cause a malfunction of the ground (earth) leakage detection safety feature of the wallbox.

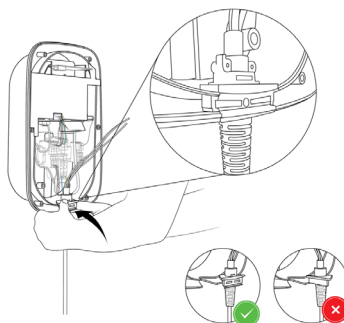
- › Do not route the PE and CP wires of the charging cable through the ELS sensor.
- › Route only the blue (N), brown (L1) (as well as black (L2) and grey (L3) for 3-phase version) wires through the ELS sensor.

! Notice

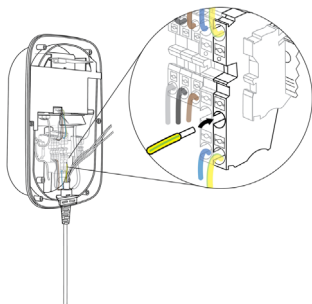
An incorrect mounting of the charging cable holder in the main assembly may result in improper installation, which could cause damage to wallbox components.

- › Make sure that the charging cable is positioned with the V-shaped side towards the main assembly.

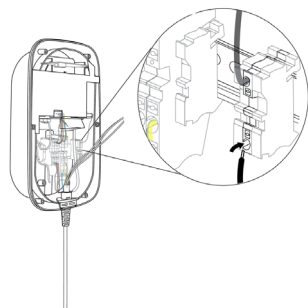
- a. Place the charging cable holder on the main assembly with the V-shaped side towards the main assembly.



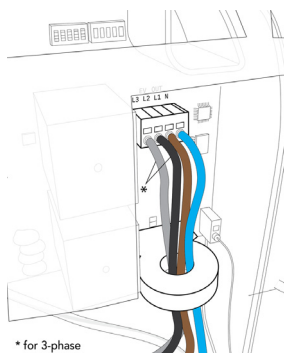
- b. Connect the PE wire of the charging cable to the second available slot of the PE feed-through terminal.



- c. Connect the CP wire of the charging cable to the CP feed-through terminal, located at the end of the DIN-rail.



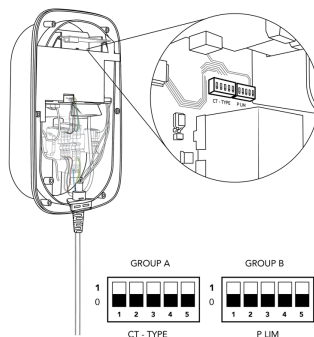
- d. Route Neutral (N), L1 (as well as L2 and L3 - for 3-phase version) wire(s) of the charging cable through the ELS sensor. Connect them directly to the terminals on the power board according to the table below.



Color coding for the provided EV charging cable

Wires	L1	L2	L3	N	PE
Color	Brown	Black	Grey	Blue	Green / Yellow

4. Set the DIP-switches.



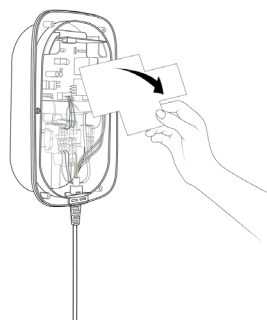
! Notice

A damaged communication board may result in improper installation, which could cause unstable wallbox functionality.

- › Be careful not to damage the communication board during DIP-switches configuration.

See chapter Set DIP-switches for the DIP-switch settings required. (before mounting the frontcover)

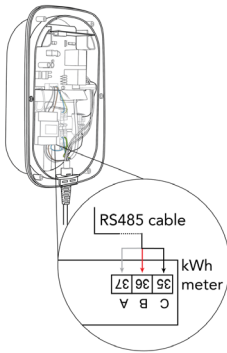
5. Remove cardboard cover.



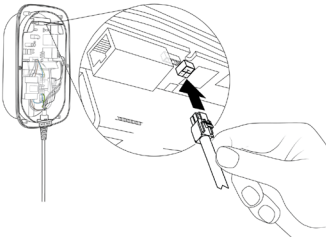
6. Optionally, connect the RS485 cable.
- a. Insert the three wires into the kWh meter following the color coding below.

Color coding for the provided RS485 cable

Wires	N	P	PE
Color	White	Red	Black
kWh meter connection	37 / A	36 / B	35 / C

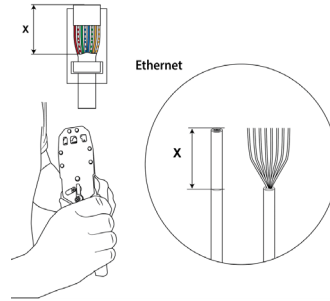


- b. Push the cable's connector into the dedicated port on the communication board.

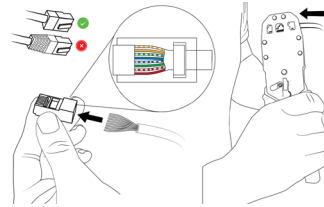


7. Optionally, install and connect the Ethernet cable.

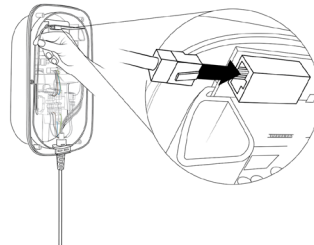
- a. Strip the outer insulation of the cable, then strip and crimp the individual wires to a suitable length for the Ethernet connector.



- b. Mount the Ethernet connector.



- c. Connect Ethernet cable to the communication board.

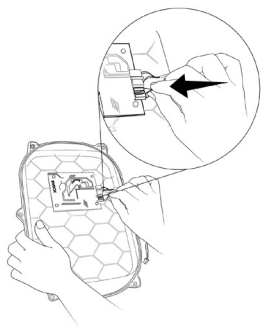


8. Mount front cover:

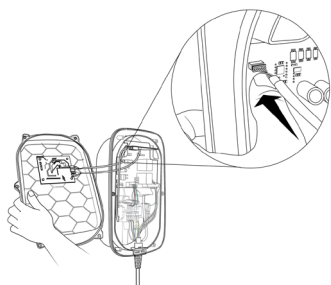
- a. Connect the HMI cable to the HMI board.



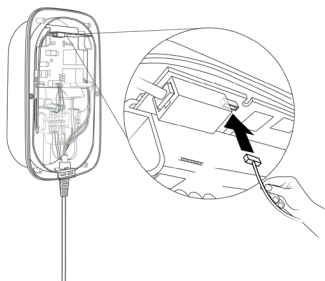
- b. Connect the RFID cable to the HMI board. (for Audi Wallbox plus and Audi Wallbox pro only)



- c. While holding the front cover next to the main assembly, connect the HMI cable to the power board.

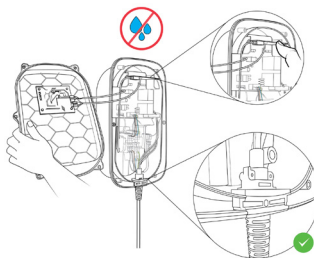


- d. While holding the front cover next to the main assembly, connect the RFID cable to the communication board. (for Audi Wallbox plus and Audi Wallbox pro only)

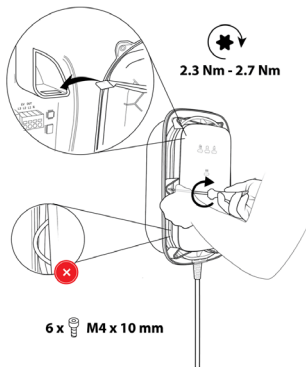


- e. Before closing the wallbox, check and ensure the following:

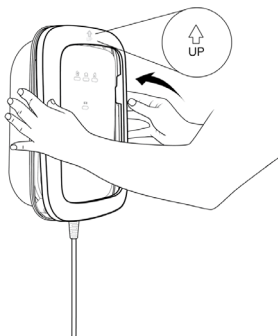
- I. All cables are connected properly.
- II. The communication board is in the correct position. Check by pressing on it gently. (for Audi Wallbox plus and Audi Wallbox pro only)
- III. The charging cable holder is aligned with the edges of the main enclosure.
- IV. The rubber seal of the charging cable and the rubber seal of the front cover are in the correct position, clean and not damaged.
- V. There is no risk for the cables to be trapped between main assembly and front assembly.
- VI. The DIP-switches are set correctly.



- f. Place the front cover onto the main assembly by using the provided hooks of the front cover. Mount the front cover by tightening the six screws M4 x 10 mm.



9. Align the bezel with the UP arrow on the inside pointing up. Push the bezel onto the front cover so it locks in position.



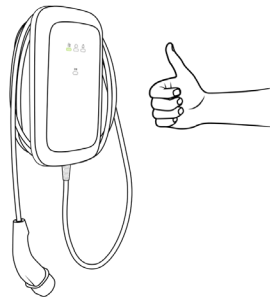
10. Wind the charging cable around the wallbox for proper storage.



11. Turn on the input power of the wallbox.

The wallbox state LED comes on to show that the wallbox is starting up to become ready to charge. See chapter Status indication for more information.

After successful installation, the certified electrician must provide the user with a commissioning protocol. If you need a commissioning protocol, you can download it from www.elli.eco/download.

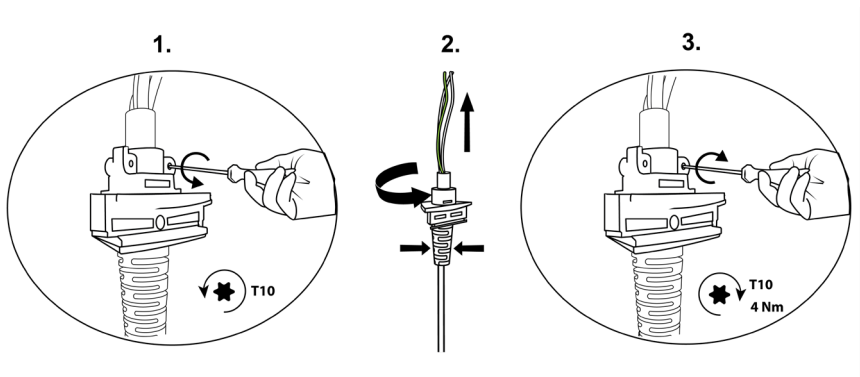


Commissioning protocol



Adjust the length of the charging cable

1. Loosen the two screws of the charging cable strain relief with a Torx 10 screwdriver.
2. Hold the cable and adjust the position of the charging cable holder by turning it counterclockwise.
3. When the desired length is reached, adjust the orientation of the charging cable holder and tighten the two screws of the strain relief with a torque value of 4 Nm.



4. Adjust the length of the wires as required.



Set DIP-switches



Danger

Not following the instructions given in this document will result in the risk of electric shock to users, which will cause severe injuries or death.

- › The installation must only be performed by certified electricians, who can correctly and safely install the wallbox and identify potential danger.

The Overload Protection feature of the Audi Wallbox enables use of as much power of the installation as possible at any given time. For more information, see chapter Overload Protection.

The power board has two groups of 5-pin DIP-switches:

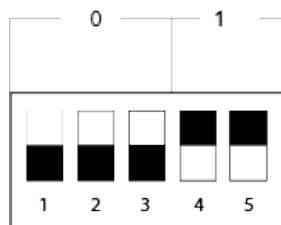
- › **Group A** determines the coil type used for the current transformer and defines the ground loss monitor functionality.
- › **Group B** determines the maximum available current of the facility/house, or of the wallbox itself, depending on the group A configuration.

In the following illustrations and tables, the upper switch position is being referred to as position **1**, whereas the lower switch position is being referred to as position **0**.

DIP-switch positions:



Example of DIP-switch setting: 0, 0, 0, 1, 1



Group A: CT coil properties

Group A switches

CT coil model	DIP-switch number and position					Illustration	Turns ratio
	1	2	3	4	5		
Default / No CT coil attached	0	0	0	0	N/A		N/A
To be set by user.*	1	0	0	0	N/A		To be set by user.*
Nidec C-CT-10	0	1	0	0	N/A		3000:1
Nidec C-CT-16	1	1	0	0	N/A		3000:1
Nidec C-CT-24	0	0	1	0	N/A		3000:1
LEM TT 50-SD	1	0	1	0	N/A		3000:1
LEM TT 100-SD	0	1	1	0	N/A		3000:1
VAC E4623-X002	1	1	1	0	N/A		2500:1
VAC E4624-X002	0	0	0	1	N/A		2500:1
VAC E4626-X002	1	0	0	1	N/A		2500:1

* For Audi Wallbox plus and Audi Wallbox pro only.

Set the CT coil's parameters locally using the Configuration Manager of the wallbox. See chapter Configure the Audi Wallbox plus and Audi Wallbox pro locally for more information.

ⓘ Any different configuration than the ones presented above is considered invalid and causes an error state. Install and configure either CT coils or HEMS, not both. If both are installed and configured, only the lower current setting gets applied.

Ground loss monitor configuration
DIP-switch 5, in group A configures the functionality of the ground loss monitor. By default, this feature is enabled from the factory.

ⓘ The wallbox will not detect a ground connection if the ground loss monitoring functionality is disabled.

	Group A switches					Illustration
	1	2	3	4	5	
Ground Loss Monitor Enabled	N/A	N/A	N/A	N/A	0	
Ground Loss Monitor Disabled	N/A	N/A	N/A	N/A	1	

Group B: Scaling current

ⓘ If the wallbox does not have a CT coil attached (indicated by DIP-switch setting of group A = 0000x), then the scaling current is the maximum static current of the wallbox.

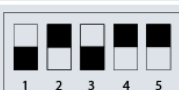
ⓘ If the wallbox does have a CT coil attached, which is set by DIP-switch group A, then the scaling current is the maximum facility current per phase.

ⓘ If the static max current is set above the station rating, an error will be shown and the wallbox will be inoperable.



Group B switches						No CT coil attached		CT coil
DIP-switch number and position					Illustration	Station Max Current		Facility/ house Max Current per phase
1	2	3	4	5		16 A 3-phase	32 A 1-phase	
0	0	0	0	0		16 A	32 A	0 A
1	0	0	0	0		6 A	6 A	6 A
0	1	0	0	0		7 A	7 A	8 A
1	1	0	0	0		8 A	8 A	10 A
0	0	1	0	0		9 A	9 A	13 A
1	0	1	0	0		10 A	10 A	16 A
0	1	1	0	0		11 A	11 A	20 A
1	1	1	0	0		12 A	12 A	25 A
0	0	0	1	0		13 A	13 A	28 A
1	0	0	1	0		14 A	14 A	32 A

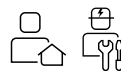
Group B switches						No CT coil attached		CT coil	
DIP-switch number and position					Illustration	Station Max Current		Facility/ house Max Current per phase	
1	2	3	4	5		16 A 3-phase	32 A 1-phase		
0	1	0	1	0		15 A	15 A	35 A	
1	1	0	1	0		invalid	16 A	40 A	
0	0	1	1	0		invalid	17 A	50 A	
1	0	1	1	0		invalid	18 A	60 A	
0	1	1	1	0		invalid	19 A	63 A	
1	1	1	1	0		invalid	20 A	80 A	
0	0	0	0	1		invalid	21 A	100 A	
1	0	0	0	1		invalid	22 A	120 A	
0	1	0	0	1		invalid	23 A	140 A	
1	1	0	0	1		invalid	24 A	150 A	

Group B switches					No CT coil attached		CT coil	
DIP-switch number and position					Illustration	Station Max Current		Facility/ house Max Current per phase
1	2	3	4	5		16 A 3-phase	32 A 1-phase	
0	0	1	0	1		invalid	25 A	160 A
1	0	1	0	1		invalid	26 A	180 A
0	1	1	0	1		invalid	27 A	200 A
1	1	1	0	1		invalid	28 A	invalid
0	0	0	1	1		invalid	29 A	invalid
1	0	0	1	1		invalid	30 A	invalid
0	1	0	1	1		invalid	31 A	invalid

① Any different configuration than the ones presented above is considered invalid and causes an error state.

① Install and configure either CT coils or HEMS, not both. If both are installed and configured, only the lower current setting gets applied.

Overload Protection



This section introduces the Audi Wallbox's Overload Protection and provides guidance for installing the needed components. In addition, all technical parameters and restrictions of the Audi Wallbox's control system are listed for certified electricians to be able to decide on a proper installation design.

Product information

The Overload Protection feature of the Audi Wallbox is aiming to allow customers to use as much of their facility's power capacity as possible.

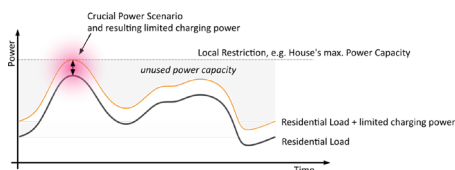
Due to physical restrictions or contractual power capacity limits of the house power supply, customers might face the need to have their wallbox's maximum charging power limited.

ⓘ This is to ensure that the sum of electrical power used for everyday life (residential load) and charging power for the electric vehicle will not exceed the given restrictions, and thus might lead to a tripping breaker or rupturing the house's main fuse.

Ordinary Charging Power Limitation

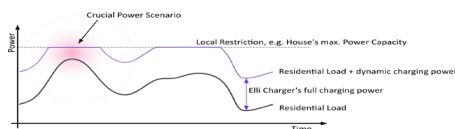
Usually, when evaluating a wallbox's maximum charging power, the residential's peak load needs to be considered. Doing so, a wallbox's charging power will usually be limited to a static as well as rather low value, since a crucial power scenario is to be prevented.

However, such crucial power scenarios occur rather seldomly, which leads to the fact that a wallbox will also operate with the limited charging power during times where the residential load would allow for the vehicle to be charged with higher power. As qualitatively illustrated in the illustration below, the customer is therefore not able to use the full potential of his power supply in order to charge the vehicle as fast as possible.



Dynamic Power Limitation with the Audi Wallbox

With the Overload Protection, the Audi Wallbox offers a comfort feature to enable customers to always charge their vehicles at the fastest speed possible. By installing additional current sensors (Current Transformer coils = "CT coils") in the house's electric installation and configuring the Audi Wallbox according to the local restrictions, the Audi Wallbox will charge the vehicle with as much power as possible while at the same time ensuring to stay within these local restrictions. Given the same residential load and local restrictions, this will charge a vehicle with up to the full charging power as illustrated in the figure hereafter.



! Notice

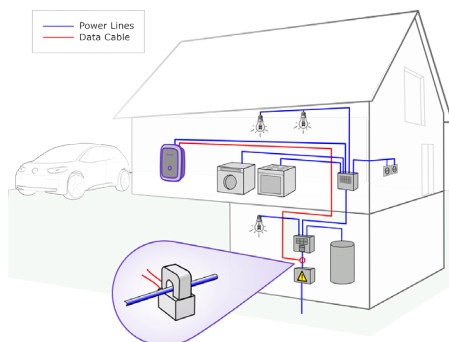
The Overload Protection is a comfort feature of the Audi Wallbox. It is not claiming to fulfil any country-specific standards or local requirements. The Overload Protection is neither a substitute for security devices, such as breakers, to protect electrical installations from damage due to excess currents.

› A certified electrician must always check and decide about the eligibility of the intended use.

Overview of Overload Protection Setup

In order to use the Overload Protection, CT coils need to be installed at the house's critical installation point. This might be at the house's main fuse or any other sub-distribution where the residential load and the charging power might exceed the local restrictions. These CT coils need to be wired to the Audi Wallbox. Since usually the critical installation point and the Audi Wallbox are located some distance apart, a data cable is needed to properly establish this wired connection.

For the three-phase variant of the Audi Wallbox also three CT coils can be used, i.e. one CT coil per installation phase. To ensure a proper monitoring of the critical installation point, all these CT coils should be located at the same place of the electric installation. The Audi Wallbox adapts its offered charging power for all its phases, based on the installation phase with the highest load, and thus avoid any load imbalance due to the charging of the vehicle. The illustration provided below is showing a qualitative example of a house with the CT coils being installed right at the main fuse. With this setup the CT coils will detect the full residential load of all power consuming devices in the house.



ⓘ If the Audi Wallbox is being used with for Overload Protection, it will only adapt the offered charging power based on the measurements of the CT coils with respect to the configured maximum current allowed at that point of installation. When the residential load is low enough, the Audi Wallbox will then offer its full charging power to the vehicle, i.e. 32 A for single-phase and 16 A for three-phase version.

It is not possible to use the Audi Wallbox's Overload Protection and have the Audi Wallbox itself limited to less than its full charging power. This needs to be considered designing the electric installation, i.e. choosing breaker and RCD sizes.

Installation of Overload Protection

This section is to state the material needed for a proper installation of the Overload Protection and how to perform the respective installation steps.

ⓘ The needed material listed in this chapter is not provided with any version of the Audi Wallbox. Neither can it be ordered from Audi at the moment. Please ask your certified electrician for an offer when planning the installation of the Audi Wallbox.

Needed material

For the Overload Protection additional installation material is needed. The table is listing this material with respect to the number of phases of the local installation.

Needed material	Quantity
CT coils	one per installation phase
Wire connectors, e.g. splicing connectors	one per installation phase
Data cable, e.g. Cat-7 S/FTP	length acc. to installation distance, max. 150m
MCVR 1.5/3-ST-3.81 connectors	one per installation phase
Optional: EMC shield connector	depending on data cable shield and drain wire

① It is recommended to use a data cable with at least a single/foil shielded data cable. In order to reduce EMC noise to a minimum, a double/foil-braid shielded data cable with twisted wire pairs (S/FTP) should be used.

Install Overload Protection

1. Install and prepare the CT coils.

- Place one CT coil per phase at the point of facility current measurement. Install the CT coils according to the CT coil manufacturer's instructions to ensure proper functionality.
- Shorten the CT coil's signal wires as much as possible while leaving them long enough to connect to the data cable.
- Strip the signal wires to a length according to the splicing connector's specification.

2. Prepare the data cable and connect to CT coil.

- Use one pair of the data cable's signal wires per installed CT coil. Strip these wires to a length according to the splicing connector's specification.
- Shorten the rest of this data cable so that the signal wires used are long enough to be connected to the CT coil's signal wires.
- Connect each signal wire of the CT coil with one of the wires of the data cable's signal wire pair, using the splicing connector.

3. Route the data cable and insert into the Audi Wallbox.

For further details refer to chapter Mount main assembly onto wall bracket.

- Route the data cable from the CT coil to the Audi Wallbox.
- Insert the data cable into the Audi Wallbox via one of the provided knockouts of the Audi Wallbox and the provided cable gland.
- Make sure to have at least 80 mm of data cable available on the inside of the Audi Wallbox, after the cable gland has been tightened.

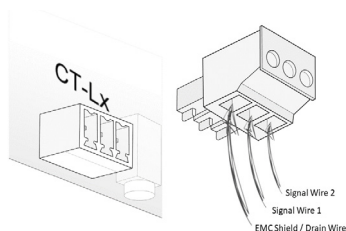
4. Connect the data cable to the Audi Wallbox.

For further details refer to chapter Assemble wallbox.

- Strip the data cable's outer insulation by 50 mm.
- Shorten the data cable's EMC shield and protect it from undesired contact with other electric parts, with respect to the setup used..
- Strip the signal wires by 7 mm.
- Insert the signal wires into the MCVR 1.5/3-ST-3.81 connector and secure the wires using a screwdriver. Make sure that the signal wires will be attached to the center and right pin of the Audi Wallbox's female connector.

- e. Connect the data cable's EMC shield to the MCVR 1.5/3-ST-3.81 connector using the data cable's drain wire. Alternatively, use a shield connector. Make sure that the EMC shield will therefore be connected to the left pin of the Audi Wallbox's female PCB connector for proper grounding.
- f. Connect the MCVR 1.5/3-ST-3.81 connector to the female PCB connector on the Audi Wallbox's power board.

The figure hereafter is showing the installation slots of the MCVR 1.5/3-ST-3.81 connector with respect to the female PCB connector on the Audi Wallbox's power board.



ⓘ The relative deviation of the current measurement using CTs of Audi Wallbox's Control System is 6%. This deviation is automatically taken into account by the Audi Wallbox's Control System of the models Audi Wallbox plus and Audi Wallbox pro.

No further precautions need to be taken when setting the DIP-switches and the configured maximum facility current. For the model Audi Wallbox, it depends on the material number, which can be found on the packaging label of the housing. For the material numbers 200001, 200002, 200251 and 200252, this deviation is NOT automatically taken into account by the Audi Wallbox's Control System.

This deviation needs to be taken when setting the DIP-switches and the configured maximum facility current.

For any other material number, no further precautions need to be taken when setting the DIP-switches and the configured maximum facility current.

Configuration of Audi Wallbox for Overload Protection

For further details refer to chapter Set DIP-switches.

5. Set the Audi Wallbox's DIP-switches in order to configure the Overload Protection parameters.

- a. Set the DIP-switches 1-4 of Group A in order to select the CT coil model used.
- b. Set the DIP-switches of Group B in order to select the max. facility current allowed at the CT coil's place of installation.
- c. Optionally, in case of an Audi Wallbox plus or pro, use the Configuration Manager to conduct further CT coil settings.
- d. Optionally, in case of an Audi Wallbox plus or pro, use the Configuration Manager to double check the correct Overload Protection configuration.

Technical parameters

The list of CT coils that are supported by the Audi Wallbox by default can also be obtained from chapter Set DIP-switches (page 49).

In addition to the CT coil models mentioned in chapter Set DIP-switches, the CT coil models that are possible to use as default with any variant of the Audi Wallbox are listed.

Manufacturer	Model	Rated Primary Current (in A RMS)	Turn ratio
Nidec	C-CT-10	60	3.000 : 1
Nidec	C-CT-16	100	3.000 : 1
Nidec	C-CT-24	200	3.000 : 1
LEM	TT 50-SD	50	3.000 : 1
LEM	TT 100-SD	100	3.000 : 1
VAC	E4623-X002	40	2.500 : 1
VAC	E4624-X002	60	2.500 : 1
VAC	E4626-X002	100	2.500 : 1

In addition to the CT coils supported by the Audi Wallbox by default, the Audi Wallbox plus and pro offer the possibility to also use other CT coils with different technical parameters. However, these parameters need to be configured in the Audi Wallbox's Configuration Manager during electrical commissioning. The table below is listing the limitations of the technical parameters, that such CT coils need to fulfil.

Parameter	Value
min. rated Primary Current (in A RMS)	300
max. rated Primary Current (in A RMS)	200
min. Turn Ratio	300 : 1
max. Turn Ratio	10.000 : 1

Hereafter an overview of the parameters of the control system of the Audi Wallbox is provided. These data can be used to evaluate whether the Overload Protection meets the requirements that might need to be considered during the design of an installation.

Parameter	Value
Sample Rate of Facility Current	10 Hz
Measurement Accuracy of Facility Current	0,1 A
max. relative Measurement Deviation of Audi Wallbox's Control System ¹	6 %
Calculation Rate of max. Charging Current	2 Hz
Accuracy of max. Charging Current	0,1 A
Update Cycle of max. Charging Current	5 s ²

¹ Already considered by the Audi Wallbox's control, unless communicated otherwise.

² In accordance to IEC 61851

Commissioning



Danger

Not following the instructions given in this document will result in the risk of electric shock to users, which will cause severe injuries or death.

- › The installation must only be performed by certified electricians, who can correctly and safely install the wallbox and identify potential danger.

General Commissioning

Before connecting the wallbox to the vehicle:

1. Clean the connection zone.
2. Check wall mounting for stability.
3. Check that all screws and terminal connections are tight.
4. Make sure there are no knock-out holes for cable routing left open. Seal them with blind plugs if there is no cable routed through them.
5. Make sure all cable glands are tightly closed.
6. Perform visual inspection according to commissioning protocol. If you need a commissioning protocol, you can download it from www.elli.eco/download.
7. Switch on the input power to the wallbox.
8. Check HMI LED status indication.
9. Perform electric commissioning according to commissioning protocol and normative requirements and additional local installation requirements (if applicable).
10. Perform functional tests with a simulator or an EV and simultaneously check HMI LED status indication.
11. To comply with safety and legal regulations you must fill in the commissioning protocol.



Danger

Installation, maintenance, repair and relocation of this wallbox by a non-certified electrician will result in the risk of electric shock, which will cause severe injury or death.

- › Only a certified electrician is permitted to install, maintain, repair, and relocate the wallbox.
- › The user must not attempt to maintain or repair the wallbox as it does not contain user serviceable parts.

The owner of the wallbox is responsible for the maintenance of the wallbox, whereby the local regulations in force in the country of use must be observed.

1. Dirt and natural organic matter on the outside of the wallbox can be cleaned by the user with a damp, soft cloth.
2. The charge plug should only be checked for damage and foreign matter, as well as cleaned by a certified electrician.
3. The wallbox and its installation should be inspected by a certified electrician on a regular basis and in compliance with the local country installation guidelines.

4. The user should make sure that the wallbox always has the latest software.

Please note that a software update requires the approval via the myAudi app. Information about the latest software updates can be found at <https://www.elli.eco/de/changelog/wallbox>. The user is free to install or reject the update. However, this may impair the security as well as functionality of the wallbox. It will then potentially no longer be possible to use new functions or functionalities may be restricted.

ⓘ If an update is not agreed to, Elli and Audi will not be liable for any product defects in the wallbox that are caused by the missing update.



Troubleshooting

Refer to chapter Status indication for the description of the LED indications of the wallbox.



Danger

Operating damaged electric devices will result in the risk of electric shock, which will cause severe injury or death.

- › Troubleshooting must only be done by a certified electrician unless otherwise stated.



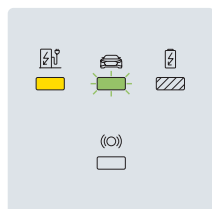
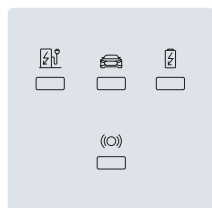
Warning

Ignoring an error indicated on the wallbox could result in the risk of electric shock, which could cause severe injury or death.

- › If any of the listed errors persists, get in contact with the customer support at audi-support@elli.eco to get further advice and to avoid damage to the wallbox.

Error states of the wallbox

LED states



Wallbox status

Energy saving

Off

HMI Cable not connected

Over-temperature derating

Explanation

Charging possible

Connect the wallbox to the vehicle to start the wallbox.

Charging not possible

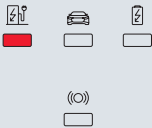
Check that the power supply to the wallbox is switched on at the power supply cabinet.

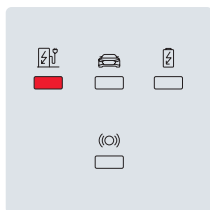
Charging not possible

Have the HMI cable checked for a proper connection.

Charging possible

Due to high temperature, the wallbox only allows charging at a lower power. When the wallbox has cooled down, it will resume charging at the maximum power.

	CT coil / HEMS charging paused	Charging not possible The house power consumption is too high to permit charging. The wallbox starts charging again when power becomes available.
	CT coil / HEMS derating	Charging possible When the house power consumption is high, the wallbox allows charging only at a lower power. Once the house power consumption is normal, the wallbox allows charging at maximum power.
	CT coil / HEMS without derating	Charging possible When the house power consumption is normal / usual, the wallbox allows charging at maximum power.
	Loss of communication with HEMS	Charging possible The wallbox is unable to communicate with the HEMS network. > Using the Configuration Manager, check your network configuration. > Using the Configuration Manager, check your HEMS configuration.
	Self-test failure or processor freeze	Charging not possible The wallbox has detected an internal error during a self-test. > Have the wallbox switched off at the power supply cabinet. Have the wallbox switched on again for a reboot. > If the error remains, have the HMI cable checked for a proper connection.



Loss of protective earth

Charging not possible

ⓘ The Audi Wallbox detects if it is correctly connected to ground by measuring the L1 to PE (Protective Earth) voltage.

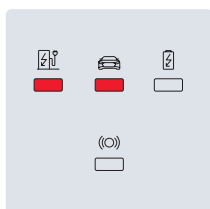
› Have voltage between L1 and PE measured multiple times:

A. If voltage is close to 0 V, then L1 and N might be swapped.

B. If the voltages are different for each measurement, the ground connection is possibly floating.

Possible solutions:

- › For TN and TT grounding schemes (not applicable to 1-phase without neutral): Have the wallbox checked for a proper ground connection.
- › In case of IT grid or 1-phase without neutral, have the ground monitor functionality disabled via DIP-switch 5 of Group A.
- › If the error remains, and a safe operation of the wallbox and its upstream installation is ensured, have the ground monitor functionality disabled via DIP-switch 5 of Group A.

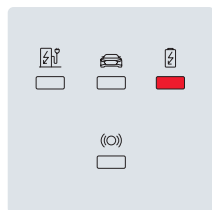


Earth leakage

Charging not possible

The wallbox has detected a current leakage to ground (earth) caused by the vehicle.

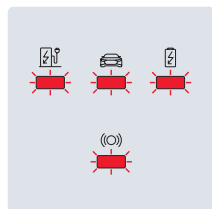
- › If the vehicle is connected to the wallbox, disconnect it. Wait until the wallbox is idle before reconnecting your vehicle.
- › If the vehicle is not connected to the wallbox, have the wallbox switched off at the power supply cabinet. Have the wallbox switched on again for a reboot.
- › If the error still occurs, inspect the charging cable and the connector for dirt or damage.
- › If the error is not corrected, contact the Audi customer support via audi-support@elli.eco.



Invalid CT coil configuration / invalid custom coil

Charging not possible

- › Have the settings of the DIP-switches checked to match the configurations shown in this manual.



Relay state mismatch

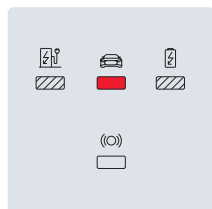
Charging not possible

The output relays are welded together.

Warning: Risk of electric shock

If the wallbox is powered on, there may be live voltage in the charging connector.

- › Please do not touch the wallbox and connected cables.
- › Disconnect the supply to the wallbox immediately.
- › Contact the Audi customer support via audisupport@elli.eco.

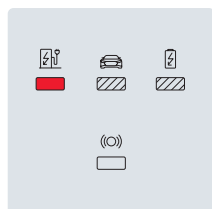


Invalid vehicle communication

Charging not possible

Pilot wire might be shorted to ground.

- › If the vehicle is connected to the wallbox, disconnect it. Wait until the wallbox is idle before reconnecting your vehicle.
- › If the error still occurs when the vehicle is not connected, inspect the charging cable and the connector for dirt or damage.

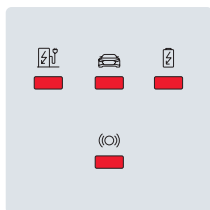


Critical temperature

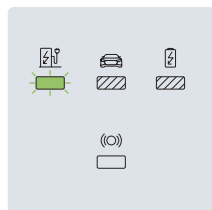
Charging not possible

This error occurs when the temperature inside the wallbox is too high.

- › If the wallbox does not recover from the critical temperature state, disconnect it from the car. Wait for at least one hour for the wallbox to cool down.
- › If this error occurs more often, make sure that the wallbox is protected from heat sources (direct sunlight).



Wallbox is remotely set to inoperable*	Charging not possible › If the error remains, contact the Audi customer support via audi-support@elli.eco in order to have your settings checked.
Software update	Charging not possible › Once the update is downloaded and installed all other functions resume.
Communication board cannot be found*	Charging not possible › Have the wallbox switched off at the power supply cabinet. Have the wallbox switched on again for a reboot. › Have the wallbox checked for a proper connection between the power board and the communication board.
Wallbox is inoperable due to unexpected/ internal error	Charging not possible › If the vehicle is connected to the wallbox, disconnect it. Wait until the wallbox is idle before reconnecting the vehicle. › If the vehicle is not connected to the wallbox, have the wallbox switched off at the power supply cabinet. Have the wallbox switched on again for a reboot. › If the error remains, contact the Audi customer support via audi-support@elli.eco

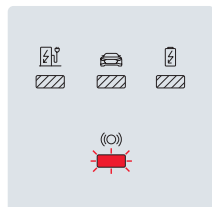


Currently not connected to the Audi backend*

Charging possible

Charging is still possible either with recently accepted cards or without access control.

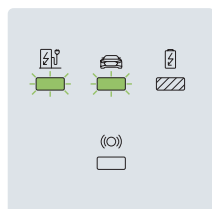
- › Use the Configuration Manager in order to make sure that the network settings are correct.



Local authorization (e.g. charge card) rejected*

Charging not allowed

- › Use a charge card which is allowed to charge in order to be granted access.
- › Check the access control settings in your myAudi App.
- › If the error remains, contact the Audi customer support via audi-support@elli.eco in order to have your settings and your charge card checked.



Currently not connected to the Audi backend*

Charging possible

- › The connection to the backend has been lost, the vehicle is charging.
- › Charging data will not be sent until the connection has been restored.
- › Possible causes include a poor Wi-Fi or LTE connection.

* For Audi Wallbox plus and Audi Wallbox pro only.





Decommissioning



Danger

Working on electric installations without proper precautions will result in the risk of electric shock, which will cause injury or death.

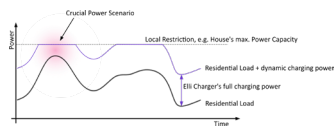
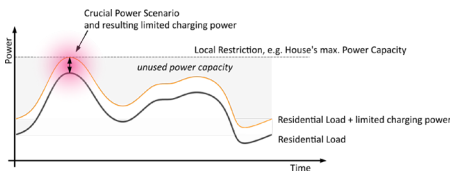
- › Make sure that connection of the electrical power cannot occur during installation.
- › Put up caution tape and warning signs to mark the working areas. Make sure no unauthorized persons enter the working areas.

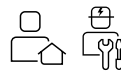
Installation, maintenance, repair and relocation of this wallbox by a non-certified electrician will result in the risk of electric shock, which will cause severe injury or death.

- › Only a certified electrician is permitted to install, maintain, repair, and relocate the wallbox.
- › The user must not attempt to maintain or repair the wallbox as it does not contain user-serviceable parts.
- › Local regulations may be applicable and may vary depending on your region or country of use. The certified electrician must always ensure that the wallbox is installed according to the local regulations.

1. Turn off the input power of the wallbox and make sure that the power stays off by adding warning signs to avoid accidental restart of power. Subsequently please check that there is no voltage.
2. Use a plastic card or similar plastic tool for removing the bezel in a gentle way, without damaging it.

3. Dismount the screws of the front cover. Remove the front cover and hold it close to the main assembly while disconnecting the HMI cable and, optionally, if present, the RFID cable.
4. To continue dismantling the wallbox, follow the installation steps from chapter Install wallbox in reverse order.





Disposal

After decommissioning the wallbox, have the device disposed of in compliance with applicable local disposal regulations.



Electric and electronic equipment (EEE) is marked with the symbol of a crossed-out wheeled bin. This indicates that the corresponding EEE must be collected and disposed of separately from regular domestic waste at the end of its service life. As the end-user, you are legally obligated to separate collection.

Electric/electronic equipment can be returned free of charge to local collection points in your area. The addresses of collection points can be obtained from your local or municipal council.

It is your responsibility to delete any personal data found on WEEE.

If your WEEE contains removable/rechargeable batteries or lamps, remove them prior to disposing of the WEEE and take them to a separate collection facility.

Electrical and electronic equipment contains substances that are potentially hazardous to the environment and human health. Therefore, ensure proper disposal and check beforehand if there are measures available to prevent or avoid waste, such as reparability or alternative uses, and opt for refurbishment, upgrading, or replacement of individual components or return the WEEE to a reuse facility instead of final disposal in order to play your part in protecting the environment.

In Germany: Retailers with a sales area designated for EEE of at least 400 square meters and food retailers with a total sales area of at least 800 square meters are obligated to take back WEEE free of charge if they offer EEE several times a year or on a permanent

basis and make it available on the market. In the case of distribution using means of distance communication, the retailer's sales area shall include all storage and dispatch areas.

When supplying a new EEE to an end-user, distributors must take back free of charge, at the point of supply or in the immediate vicinity thereof, a WEEE of the equivalent type that largely fulfills the same functions as the new EEE.

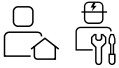
Free return of up to three (3) electric or electronic devices per type of device, if no external dimension exceeds 25 centimeters, is also possible in the retail shop or in its immediate vicinity without the purchase of new EEE.

Find out if there are similar regulations in place in your country (if you reside outside of Germany).

Information regarding the fulfillment of the "quantitative targets" (collection and recycling rates) in Germany set out in Section 10(3) ElektroG (Elektro- und Elektronikgerätesgesetz – Electrical and Electronic Equipment Act) and Section 22(1) ElektroG can be found at: <https://www.bmuv.de/themen/wasser-ressourcen-abfall/kreislaufwirtschaft/statistiken/elektro-und-elektro-nikaltgeraete>



Recycling of materials saves raw materials and energy and makes a major contribution to conserving the environment.



Legal information

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Product characteristics



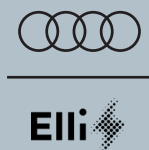
The wallbox and enclosed charge card have been CE-certified by the manufacturers and bear the CE logo. The relevant declarations of conformity can be found via <https://www.elli.eco/downloads/>.



The wallbox and enclosed charge card comply with the RoHS Directive (RL 2011/65/EU). The relevant declarations of conformity may be obtained from the manufacturers

Glossary

Abbreviations and acronyms	Meaning
AC	Alternating Current
A RMS	Ampère Root Mean Square
CP	Control Pilot
CT coil	Current transformer coil
DC	Direct Current
DIP-switch	Dual In-line Package-switch
ELS	Earth Leakage Sensor
ESD	Electrostatic discharge
EV	Electric Vehicle
HEMS	Home Energy Management System
HMI	Human Machine Interface
LED	Light Emitting Diode
MCB	Miniature Circuit Breaker
MID	Measuring Instruments Directive
OCPP	Open Charge Point Protocol
PE	Protective Earth
PCB	Printed Circuit Board
RCD	Residual Current Detection
RFID	Radio-frequency Identification
SKI	Subject Key Identifier



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