

# Operating manual

Green Wallbox 2 Pro Max / Slim

**EN**

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# 1. Information about the document

This Manual is dedicated to qualified personnel and electricians. It describes activities connected with the performance of mounting, start-up, operation and maintenance of the Green Wallbox charger.

This Manual applies to the following charger models:

- Green Wallbox 2 Pro Slim 22kW
- Green Wallbox 2 Pro Slim 11kW
- Green Wallbox 2 Pro Slim 7.4kW
- Green Wallbox 2 Pro Max 22kW
- Green Wallbox 2 Pro Max 11kW
- Green Wallbox 2 Pro Max 7.4kW

The technical specification of the models is provided in section 9 (p. 24).

## Warning messages

When operating the device, the following levels of warning messages may be displayed:



**It indicates a dangerous situation which will cause severe personal injury or death, if not eliminated.**



**It indicates a dangerous situation which may lead to minor or moderate personal injury, if not avoided.**



**It indicates a situation which may lead to property damage, if not avoided.**



**It indicates activities which should be performed by qualified personnel only.**



**It indicates information which is important for a specific topic or aim but unimportant in terms of safety.**

Symbols attached to the product (rating plate)



#### CE marking

Green Wallbox 2 Pro Slim/ Max chargers hold the CE mark. The related declaration of conformity is available for downloading in the electronic format from:  
[www.greenwallbox.com](http://www.greenwallbox.com).



#### Caution – electric voltage

This product works under high voltage.



#### Adhere to the documentation

It is necessary to adhere to all the documents supplied with the product.



#### WEEE symbol (waste electrical and electronic equipment)

Do not dispose of the product as household waste but follow the electronic waste regulations applicable in the mounting location.



The rating plate graphics is referential only and it may differ depending on a given model

Additional information provided on the rating plate:

- The QR code enables adding your device to the application
- Device serial number
- Working temperature range
- IP rating
- Electric parameters
- Name and address of the manufacturer and information on the manufacturing location.

You can find more information in the technical specification (see p. 24).

## 2. Safety information

Keep this Manual for use in the future.

This section includes information about safety which must be followed when using the charger.

Be careful when using electrical and electronic devices. In order to avoid personal injuries and property damage, and in order to ensure the long-term operation of the charger, it is necessary to read this section carefully and always adhere to the information provided in this section.



### **Threat to life due to electric shock if elements or cables under voltage are touched.**

High voltage is present in conductive elements and cables. Touching elements or cables under voltage may lead to death or serious injuries as a result of electric shock.

- It is forbidden to touch uninsulated elements or cables.
- Before starting work, it is necessary to disconnect the charger from voltage sources.
- When working with the charger, it is necessary to use proper personal protection equipment in line with the OHS regulations (e.g.: protective footwear, goggles, gloves, clothing).



### **Threat to life due to electric shock in the event of overvoltage and lack of overvoltage protection.**

Overvoltage (e.g.: in the event of a lightning strike) may be transferred farther into the building and to other connected devices within the same network by means of network cables, if proper overvoltage protection is not in place. Touching elements or cables under voltage may lead to death or serious injuries as a result of electric shock.

- The line supplying the charger with power must be connected to the existing installation and should comply with the local regulations.
- The charger must be electrically protected by
- external MCB overcurrent circuit breakers and RCB (RCA) residual circuit breakers.
- An external emergency stop must be installed, if local regulations impose such a requirement.



### **Threat to life due to fire or explosion.**

In extreme cases, as a result of a failure, an explosive gas mixture may be formed inside the device which is likely to lead to fire or explosion.

- It is forbidden to perform any direct activities with the use of the charger, if there is a failure.
- When working with the charger (e.g.: eliminating defects, dismantling), it is necessary to use proper personal protection equipment in line with the OHS regulations (e.g.: protective gloves, goggles, mask, clothing).

**Possible injuries due to toxic substances, gases and dusts.**

In extreme cases, damage to electronic elements may cause the formation of toxic substances, gases or dusts inside the product. Touching toxic substances and inhaling toxic gases and dusts may lead to skin irritation, scalding or intoxication, respiratory problems and nausea.

- When working with the charger, it is necessary to use proper personal protection equipment in line with the OHS regulations (e.g.: protective gloves, goggles, mask, clothing).

**Possible scalding with hot housing elements.**

Some housing parts may get heated when the device is working. Touching hot housing elements may cause scalding.

- It is forbidden to touch the housing when the device is working.
- It is necessary to use proper personal protection equipment in line with the OHS regulations (e.g.: protective goggles, gloves, clothing).

**Risk of injuries due to the product weight.**

Improper product lifting or lowering during transport or mounting may cause injuries.

- When working with the charger, it is necessary to use proper personal protection equipment in line with the OHS regulations (e.g.: protective footwear, goggles, gloves, clothing).

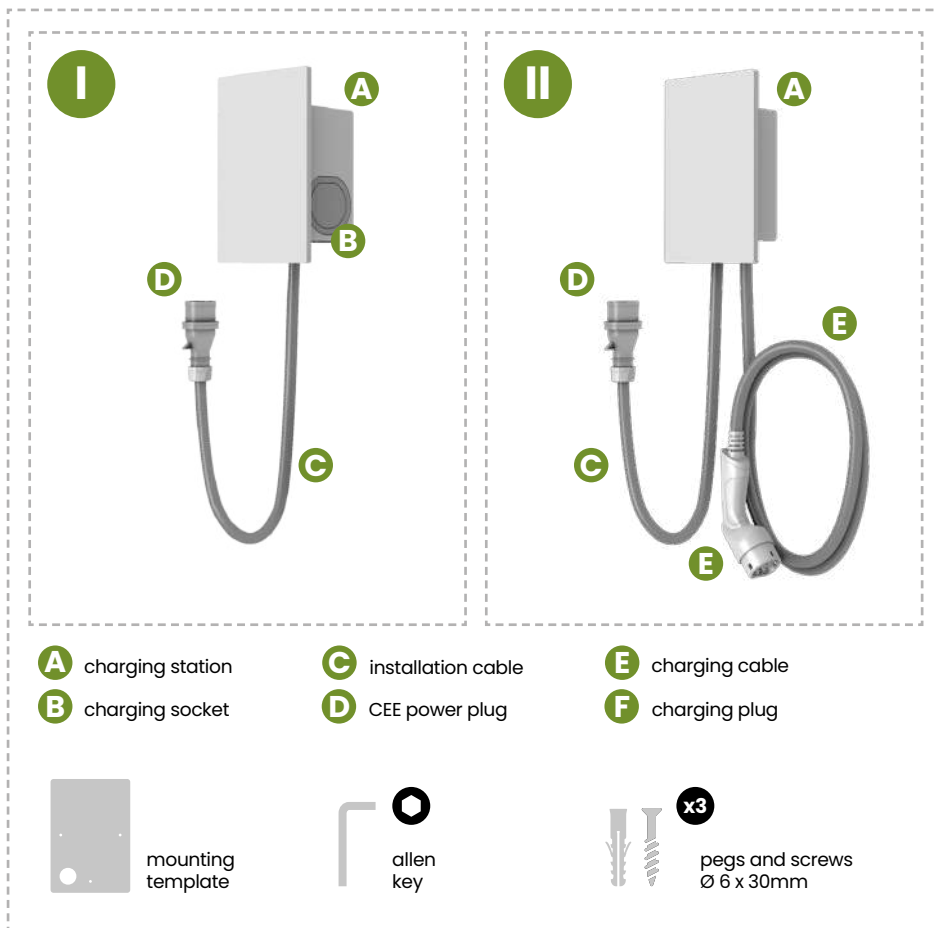
**Product damage due to cleaning agents.**

Using cleaning agents may damage the product and its components.

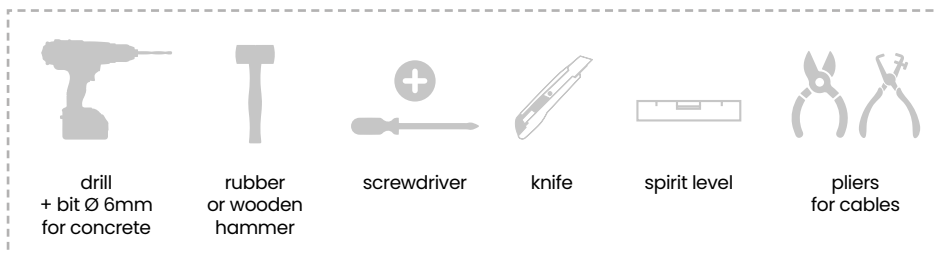
- The product and its elements must be cleaned only with a dry cloth.

### 3. Set contents

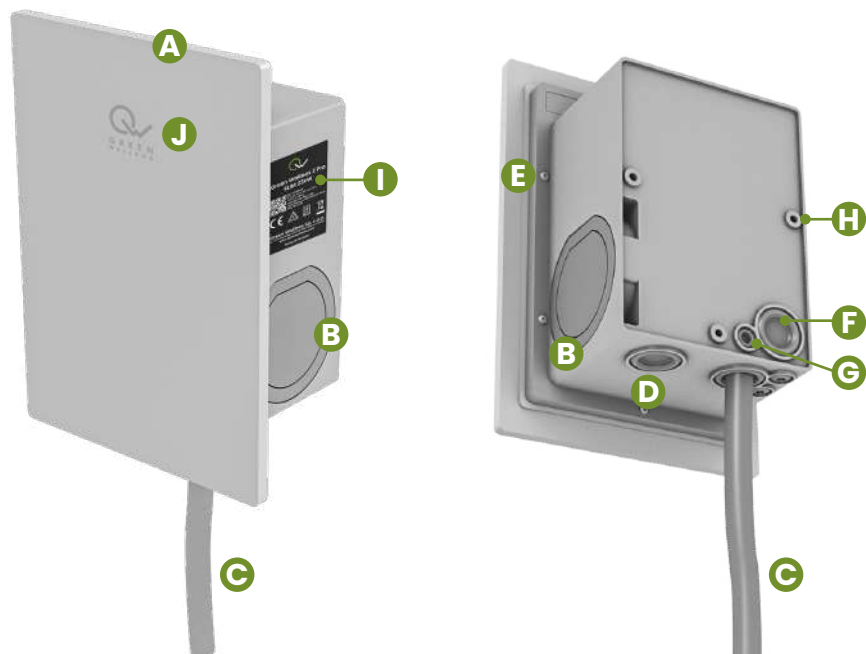
Depending on a given version, the charger may be equipped with a charging socket and a charging plug with a cable.



### Mounting tools











## 4. Product overview



- A** cover
- B** charging socket
- C** installation cable ended with a CEE power plug
- D** charging cable
- E** cover screws
- F** rubber cap for the mounting spot of the rear power supply
- G** rubber cap for the mounting spot of the ETHERNET cable (for connecting the external energy meter)
- H** openings for the wall mounting bolts
- I** rating plate
- J** logo and place for authorising the charging process by means of the NFC card



## Light signalisation

| Signalisation colour  | Status             |
|---|--------------------|
|  Steady white                        | Inactive           |
|  Steady blue                         | Car connected      |
|  Steady blue                         | Ready for charging |
|  Wavy green                          | Charging           |
|  Steady green                        | Charging completed |
|  Steady red                          | Error              |
|  Steady or wavy orange (if charging) | Warning            |
| No light  | Blocked            |
|  Slowly flashing green               | Charging planned   |



**The light signalisation colour of the device corresponds with the background colours in the application**

## 5. Mounting instruction

### Requirements which must be satisfied before mounting



#### Threat to life due to fire or explosion.

Despite a robust design, electrical devices may cause fire. This may lead to death or serious injuries.

- It is forbidden to mount the charger in spaces with highly flammable materials or gases.
- It is forbidden to mount the charger in explosive atmospheres.

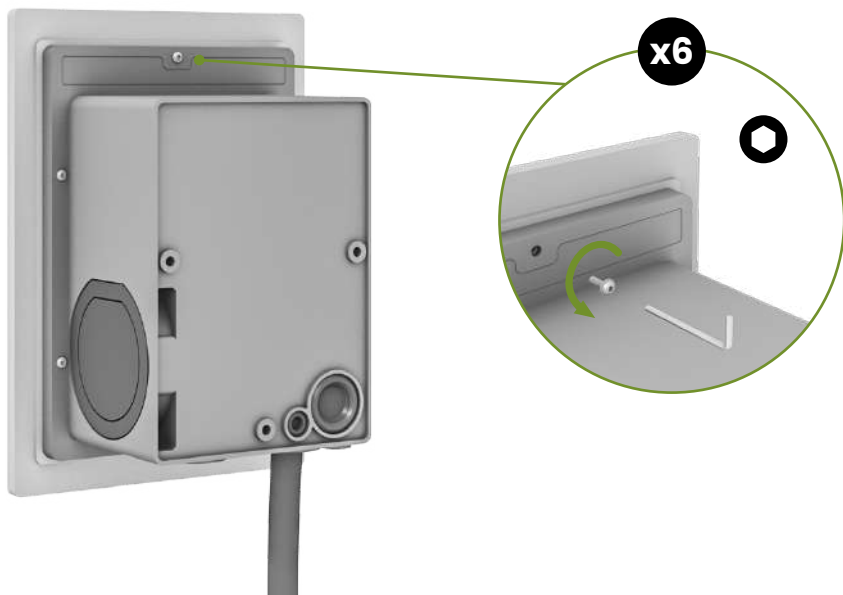
Moreover:

- The mounting site must be suitable for the product weight and dimensions. Mounting must be carried out on a robust and flat load-bearing surface, e.g.: concrete or wall made from incombustible material.
- The mounting site must not be exposed to direct sunlight.
- Otherwise, external plastic parts may prematurely get worn and become overheated. In consequence of excessive temperature, the charger may reduce the output, that is why it is important to avoid overheating.
- It is forbidden to install other devices under the charger.
- The mounting site must provide for connecting the charger with the vehicle by means of the charging cable. The charging cable must not be tense, compressed or bent.
- The mounting site should satisfy the surroundings conditions (see item 3, p. 11).
- It is possible to mount the charger on a dedicated post.

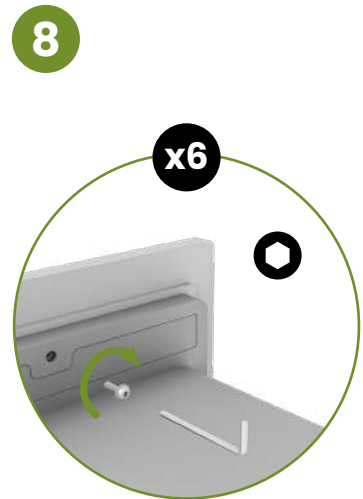
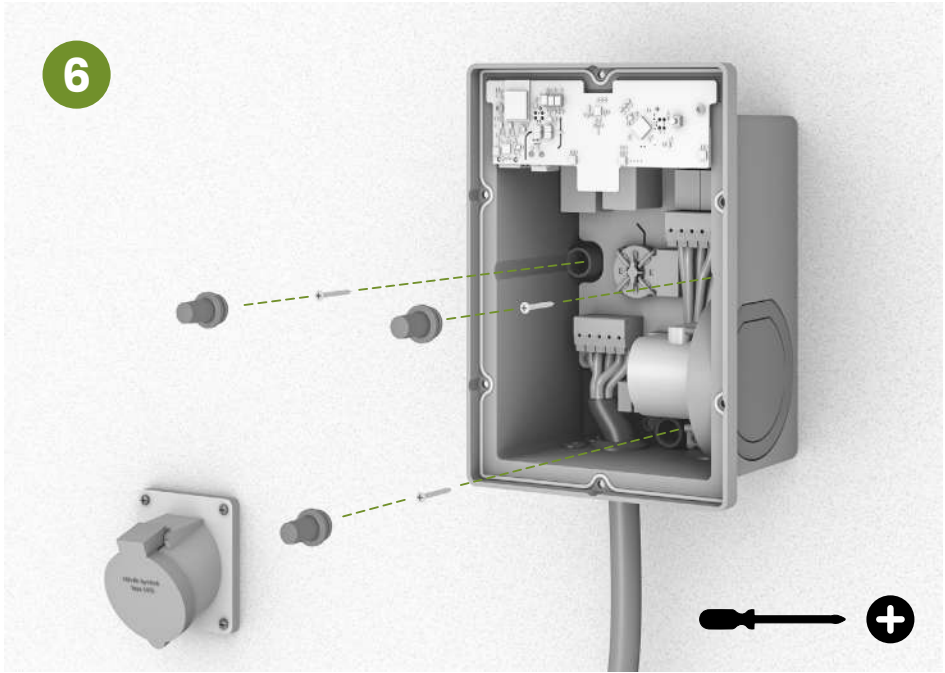
**Risk of injuries due to the product weight.**

Improper product lifting or lowering during transport or mounting may cause injuries.

- When working with the charger, it is necessary to use proper personal protection equipment in line with the OHS regulations (e.g.: protective footwear, goggles, gloves, clothing).

**1****2**



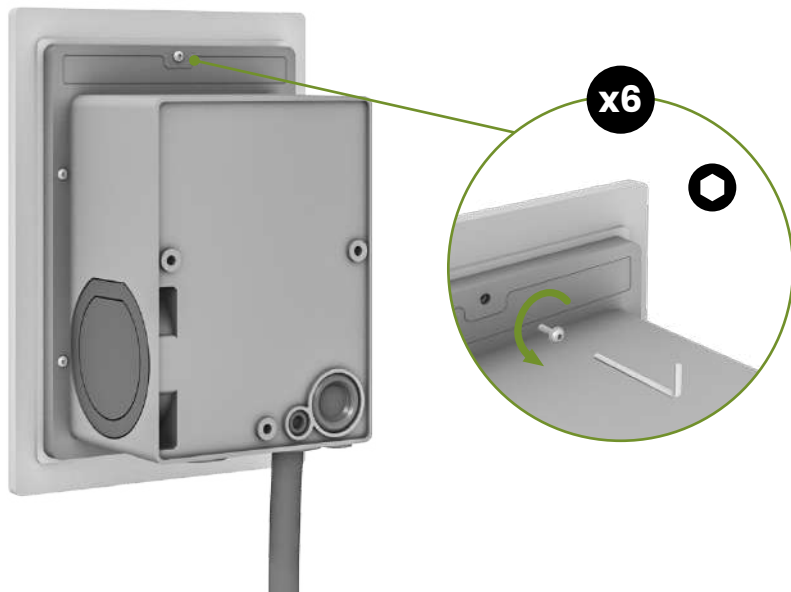


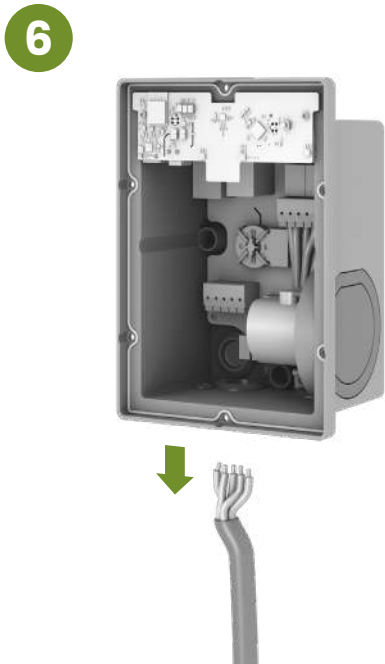
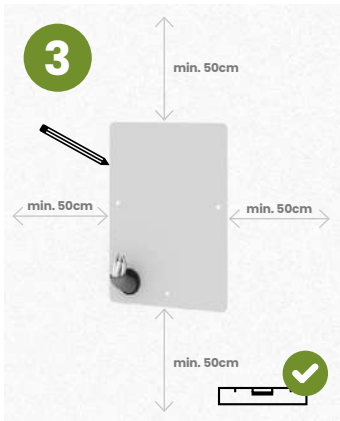
## Rear power supply (optionally)

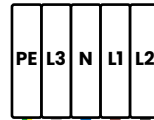
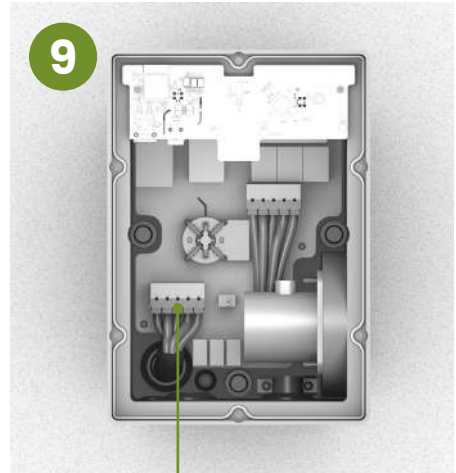
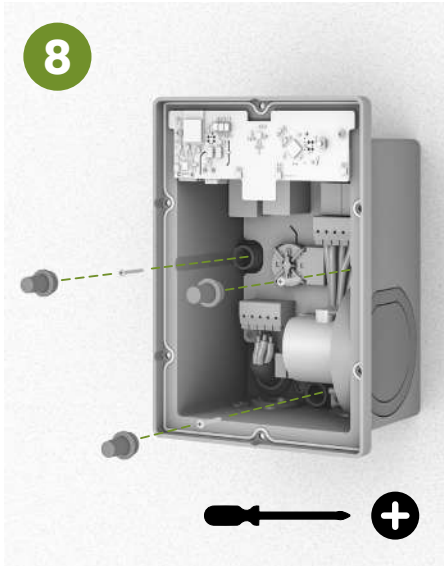


The electrical charger installation should be mounted by an installer holding licences required in a given country or region.

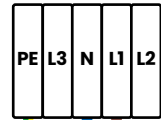
The charger owner's obligation is to entrust the electric installation mounting to a person with proper qualifications.

**1****2**





3-phase

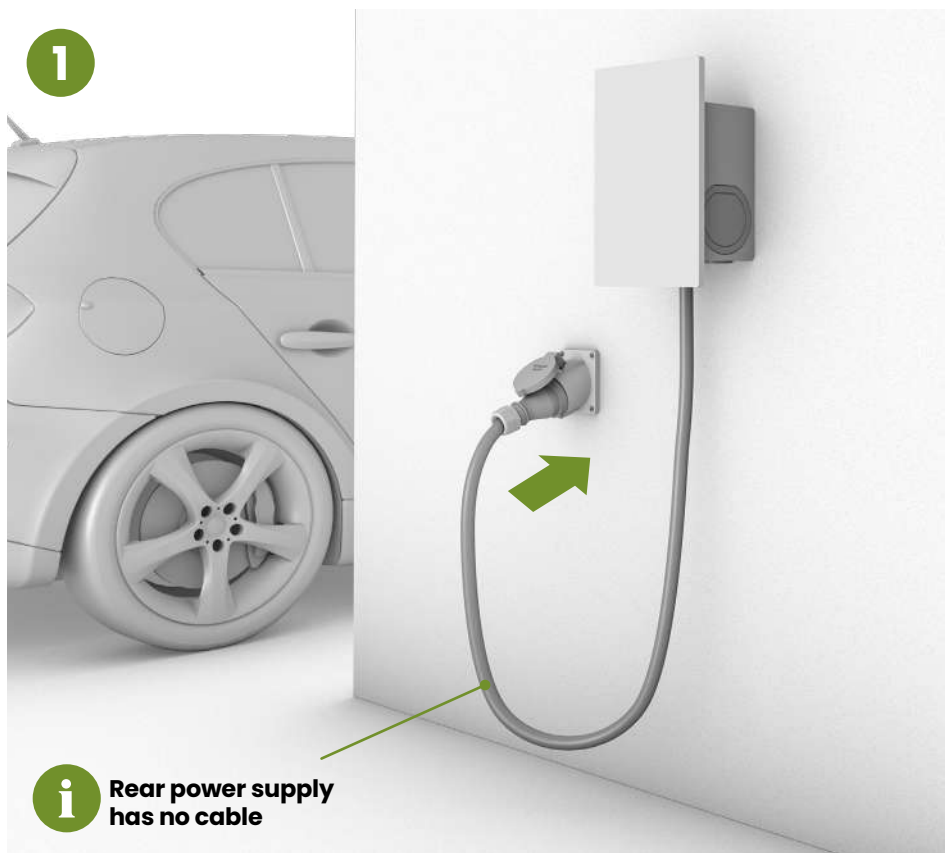


1-phase

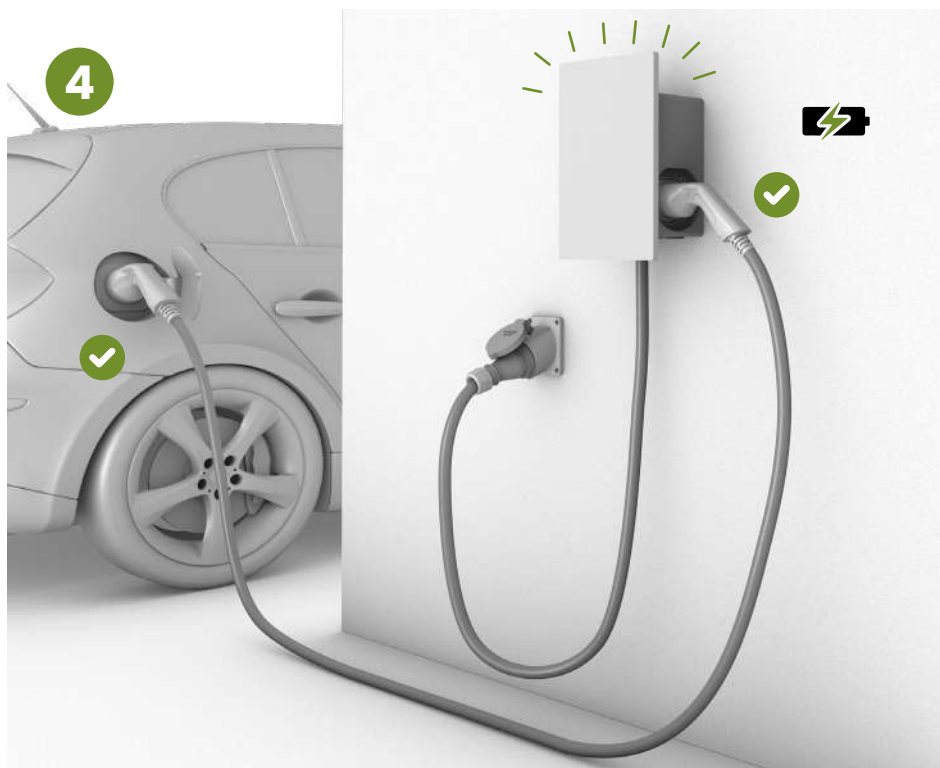


It is necessary to follow the symbols provided on the PCB

## 6A. Start-up (version with a socket, cable excl.)







i

**Charging is initiated automatically with the maximum possible power (Plug&Play)**

5

**Download the application to:**

- manage the charging process remotely
- obtain quick access to the most important parameters and functions.

See, Green Wallbox Application – p. 20.

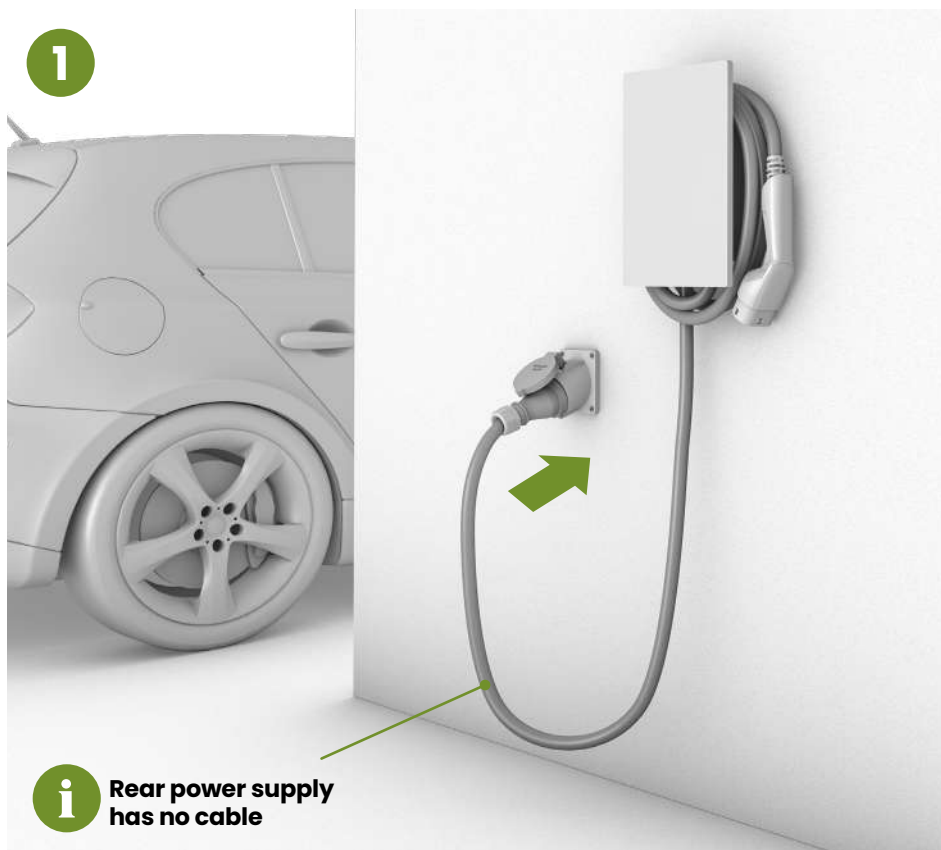
6

**Charging completed**

After finishing charging (the device light is steady green) disconnect the plug from the car **3** and disconnect the plug from the socket **2**, place the charging cable in the case or hang it on the device (see p. 18 Fig. **1**).

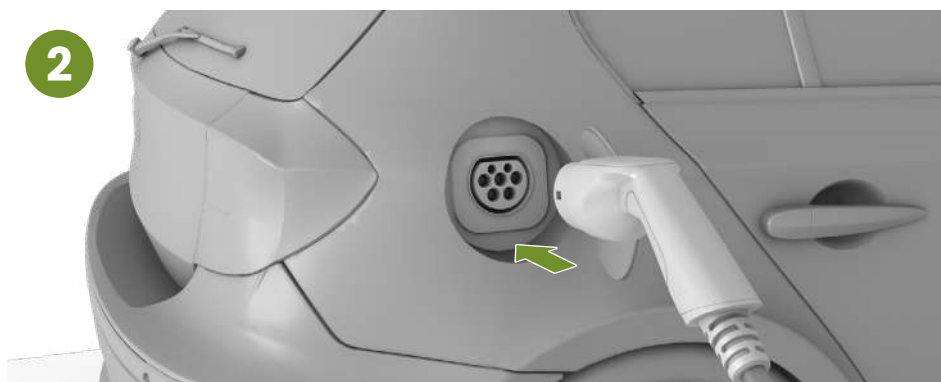
## 6B. Start-up (slim version with a cable)

1



**i** Rear power supply has no cable

2





i

**Charging is initiated automatically with the maximum possible power (Plug&Play)**

4

**Download the application to:**

- manage the charging process remotely
- obtain quick access to the most important parameters and functions.

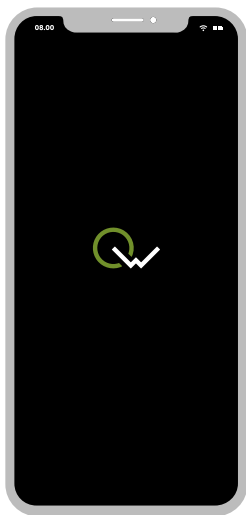
See, Green Wallbox Application – p. 20.

5

**Charging completed**

After finishing charging (the device light is steady green) disconnect the plug from the car **2** and hang it on the device (see Fig. **1**).

## 7. Green Wallbox App



### Application downloading

Before starting, we recommend downloading the application on the mobile device and creating an account for managing the charging process remotely.

This application enables access to parameters and functions (see item 4. Settings).

This application is available at Google Play and AppStore. Scan the QR code to download the application.



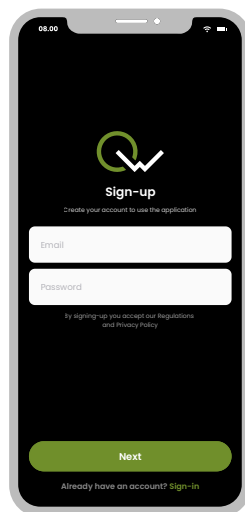
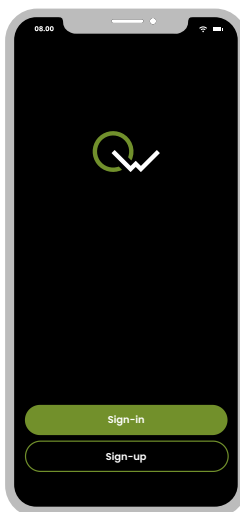
[Google Play](#)

[App Store](#)

### Creating an account and logging-in

If you are using this application for the first time, sign-up.

If you are a signed-up user, use your e-mail address and password to sign-in to the application.

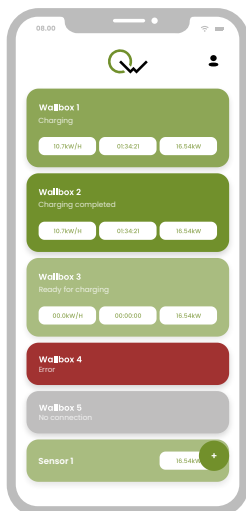
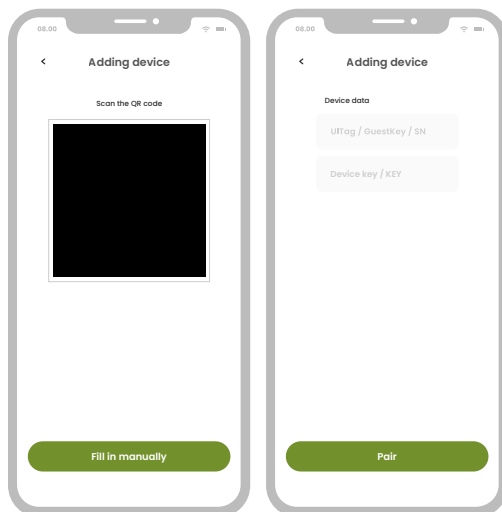


## Adding the charger

If you do not have any charger paired with the account, add it by clicking “Add the device”.

Scan the QR code and add your charger manually by providing its serial number (SN) and key (KEY) – they are placed on the rating plate on the side of the device.

After pressing “Pair”, the device is added and ready for work.



If after signing-in you can see that your charger is backlit in grey (no connection) or red (error), repeat the “Adding the charger” procedure or refer to section “Troubleshooting”.



## Charging process management

When the charger is ready for the charging process, the background of the lower half of the screen will be backlit in light green.

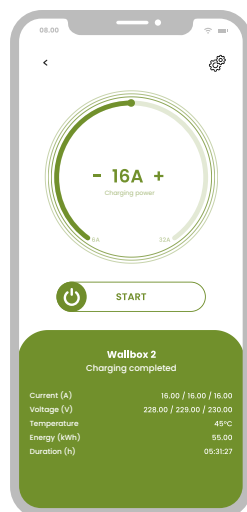
Choose the charging current by means of the knob or press buttons „+“, „-“.

Charging will start after dragging the power icon to the right. The green background of the screen will be dimmed.


Charging parameters can be seen in the lower part of the screen.

If you want to interrupt charging before the cycle is completed, drag the icon in the opposite direction.

The charging process completion is signalled by a darker background colour and the following information “Charging completed”.



## Settings

Access to the settings is possible after clicking icon .

**Plug&Play** – default setting. The charger starts working immediately after connection.

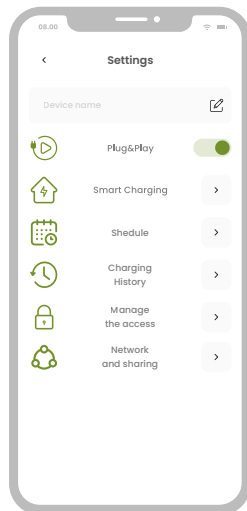
**Smart charging** – the device may work in a group. You can change here the group work parameters, such as: the number of devices in a group, maximum charging power, balancing, sensors settings.

**Schedule** – a place where you can plan the exact time in a week when the charger is expected to work.

**Charging history** – access to the charging history and information about the length and energy of previous charging processes.

**Manage the access** – the possibility of blocking the device and adding users.

**Network and sharing** – the possibility of Wi-fi setup.



## 8. Maintenance

The charger must be cleaned regularly with a dry cloth. The charger and the charging cable require regular inspections and checks in order to detect possible damage.

## 9. Technical specification

### Technical data

|                              |  |
|------------------------------|--|
| Connector type               | Plug Type 2 / Socket Type 2  |
| Dimensions (cable excl.)     | Max version: 22,4 x 31,4 x 13,4 cm<br>Slim version: 22,4 x 31,4 x 8,4 cm |
| Weight (cable excl.)         | Max version: 1,9 kg<br>Slim version: 1,7 kg                              |
| Working temperature          | -25 °C ... +40 °C  |
| Storage temperature          | -40 °C ... +70 °C  |
| Standards / CE certification | CE   |

### Electric data

|                             |   |  |  |
|-----------------------------|---|--|--|
| Maximum charging power      | 7,4 kW<br>(1-phase)                           | 11 kW<br>(3-phase)                     | 22 kW<br>(3-phase)                     |
| Nominal voltage             | 230 V<br>32 A (max), 50 Hz                    | 380 V +/- 20 V AC<br>16 A (max), 50 Hz | 380 V +/- 20 V AC<br>32 A (max), 50 Hz |
| Connecting to the network   | cable ended with a CEE plug or rear connector |  |  |
| Residual current protection | AC 30mA / DC 6mA                              |  |  |
| Recommended mounting cable  | 3 x 6 mm <sup>2</sup>                         | 5 x 2,5 mm <sup>2</sup>                | 5 x 6 mm <sup>2</sup>                  |
| Ingress Protection          | IP65 / IK08                                   |  |  |



## 10. Troubleshooting

| Problem   | Possible cause and solution  |
|---|--|
| CHARGING PROCESS STARTING FAILED                    | No power supply <ul style="list-style-type: none"> <li>• Check whether the device is supplied with power</li> </ul>  |
|   | Software failure <ul style="list-style-type: none"> <li>• Re-start the charger by disconnecting the power supply and connecting it again</li> </ul>  |
|   | Work in the NFC activation mode <ul style="list-style-type: none"> <li>• Change the setting in the Internet setup or use the NFC card to start charging</li> </ul>   |
| VEHICLE NOT FULLY-CHARGED OR CHARGING TIME EXTENDED | Connector not inserted correctly to the vehicle <ul style="list-style-type: none"> <li>• Remove the connector and re-connect it</li> </ul>   |
|   | Charging steps not performed correctly <ul style="list-style-type: none"> <li>• Follow the instructions in item 6. Start-up</li> </ul>   |
|   | Connector dirty or damaged <ul style="list-style-type: none"> <li>• Clean or replace the charging connector</li> </ul>   |
| ERROR - CHARGER LIGHT IS RED                        | Current drop due to extremely high vehicle temperature or integrated charger <ul style="list-style-type: none"> <li>• Check visually whether the plug is not dirty, worn or damaged</li> <li>• If necessary, contact the distributor</li> </ul>  |
|   | Malfunction <ul style="list-style-type: none"> <li>• Firstly, check all the possible failure causes</li> <li>• Remove the charging plug from the vehicle, remove the charging plug from the charger socket and disconnect the charger from the network, if possible. Then connect the charger following the sequence provided in item 6. Start-up</li> </ul> |
|   | Damage <ul style="list-style-type: none"> <li>• Contact the distributor</li> </ul>   |

## 11. Recycling and disposal



This device is used for charging electrical vehicles and is subject to Directive 2012/19/EU on waste electrical and electronic equipment (WEEE).

The device must be disposed of in line with the national and regional regulations concerning electrical and electronic devices.

Waste devices and batteries must not be disposed of together with household waste or large sized waste.

The product packaging must be discarded to cardboard, paper and plastic containers proper for a given region.



G R E E N  
W A L L B O X

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