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# WALLBOX MANUAL

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SAFETY - FAST - SIMPLE  
EN

Thank you for choosing of our Wallbox. Best quality Made in EU. Our charging station complies with all standards such as IEC 61851-1, charging mode 3. Before putting the charging station into operation, read the instruction manual carefully and follow the instructions in our user manual.

**Our Wallbox is safe for you and your electric vehicle thanks to temperature monitoring of the switching elements, RCCB Type B, premium quality components, under-voltage and over-voltage monitoring and checking the correct connection before each charge. These features make our Wallbox one of the safest on the market and meet all the necessary regulations and standards for charging electric vehicles.**

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## 1. Warning

The Wallbox is only designed for charging electric vehicles that support the standard IEC 62196-1 and IEC 61851-1. Do not use it for other purposes or with other vehicles or objects.

The Wallbox is only intended for vehicles that do not require ventilation during charging.

Do not use the Wallbox if it is defective, visibly cracked, corroded or otherwise severely damaged.

Do not attempt to open, disassemble, repair, or modify the device. The user is not authorized to be repaired if a fault occurs. An exception is installation by a trained person.

Do not expose the charging adapter to direct fire or immerse it in water or other liquids.

There should be no direct water above or near the charging adapter resources such as water taps or irrigation systems.

If repairs are required, contact your dealer.

Do not touch the end terminals with sharp metal objects such as wires, needles or other tools.

Do not damage the Wallbox with sharp objects or insert foreign objects into any part. The exceptions are installation and normal use.

Make sure that the charging adapter does not obstruct the movement of pedestrians, other vehicles or other objects.

Do not leave the Wallbox for small children and unauthorized persons.

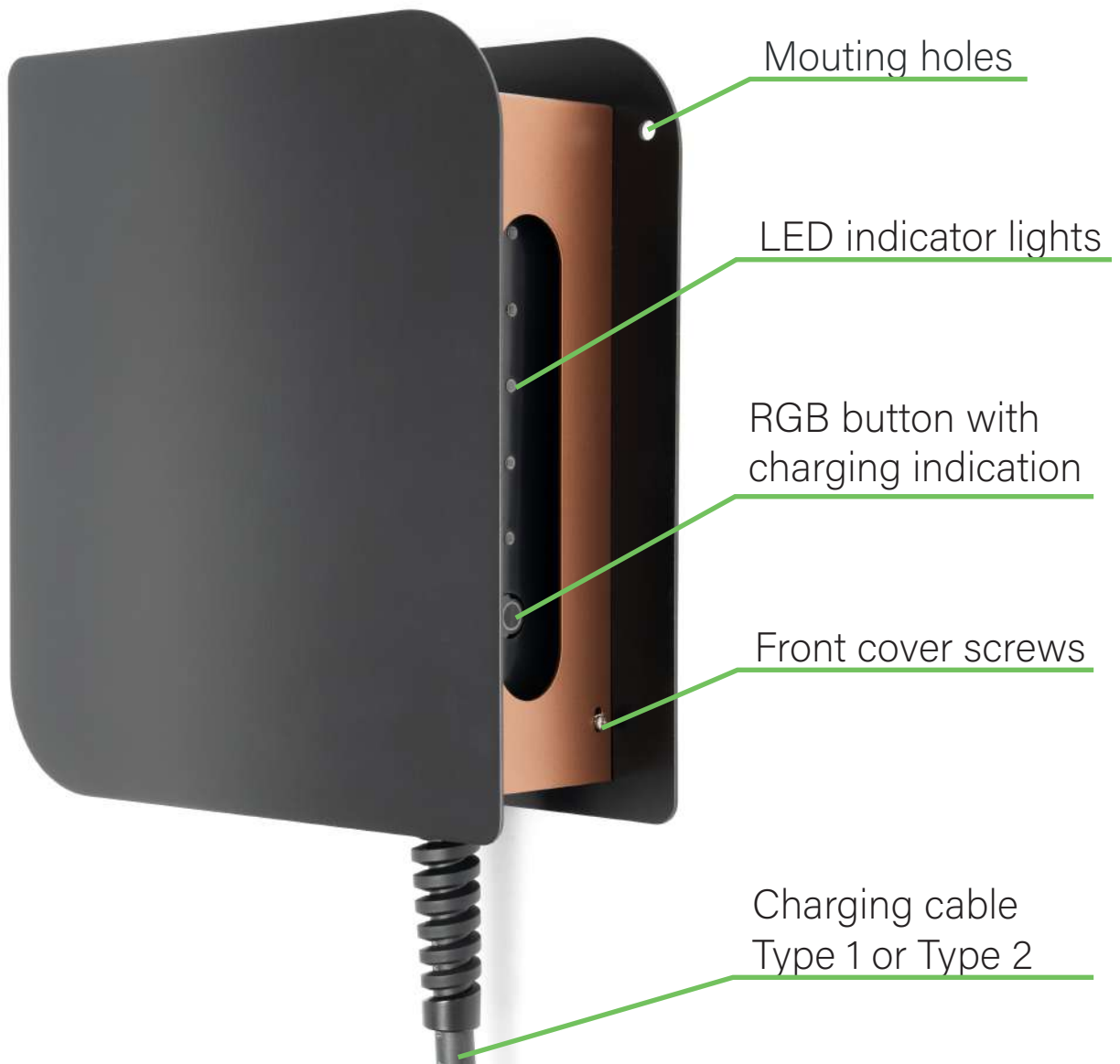
Read this document before using the Wallbox. Failure to follow some instructions or warnings described in this document may result in fire, injury electric shock, serious injury or death.

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## 2. Description of the charging station

The following figure shows the Wallbox. Depending on the variant ordered, the optical appearance differs from the figure.



## 3. Specifications of Wallbox

Rated charging current:	Max 3x32A * 22kW, 11kW, 3.7kW
Self-consumption at rest:	~ 5 W
Permissible ambient temperature:	-25 ° C to + 40 ° C
Degree of protection:	IP68
Required input wires:	3P + N + PE, 1P + N + P
Phases used:	1 or 3 depending on the connection
Manufactured in accordance with:	IEC 62196, IEC 61851-1, CE, EMC, RoHS
Cable length:	6,5m
Compatible electrical network:	TN-S, IT

## 4. Requirements regarding the qualification of electricians:

Knowledge of and compliance with the safety rules for working with electrical installations:

- isolate
- secure against reactivation
- check absence of voltage
- ground and short-circuit

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## 5. Installation

**Attention:** installation and commissioning should only be carried out by an authorised person in accordance with the regulations.

**Caution:** before installation, make sure that the supply cable is not live.

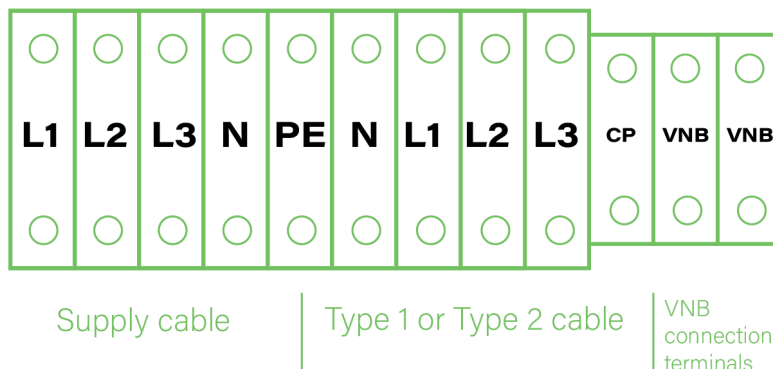
**Warning:** Wallbox is designed to be installed on the wall or on a special holder of our production.

**Warning internal components or wires.**

- After unpacking and removing the Wallbox from the box, remove the front cover.
- Drill or cut holes in the indicated locations for your chosen anchor mechanism.
- If the supply cable will be routed through the back wall, extra sealing must be used material to prevent water ingress around the supply cable.
- Attach the Wallbox to the wall and make sure it is held firmly in place.
- Once the Wallbox is attached to the wall, insert the plugs (included) over the anchoring elements.
- Route the supply cable through and connect the individual wires.
- Carefully cover the Wallbox with the front cover and tighten the appropriate screws.
- When installing the front cover, make sure that the power or low-current wires do not stand in the way of the mechanical components - especially the front cover screws!

### External enabling/disabling of the Wallbox

The wallbox can be optionally turned off or on using external switching elements. Two connection terminals marked "VNB" are used for this purpose must be pulled out and the wire jumper must be wired for external switching. The contacts of the switching element must be dimensioned so that they can switch zero-potential currents of approx. 30 mA/12 V.



## 6. Revision

The revision is carried out in the standard way except that it is not possible to carry out the test dielectric strength (more than 500V). This is because the Wallbox contains sensitive measuring circuits.

(PE). This is enabled by IEC 61851-1 (note 11.4.1 and 11.7) and IEC 61851-22 (note 10.2).

This is also linked to the insulation test, which can be carried out in the standard way (500V DC), but the resulting measured value is less than 1M $\Omega$ .

If the input power conductors (L1, L2, L3 and N) are connected and measured against PE, then the measured value should be 274k $\Omega$ . If the output power conductors (L1, L2, L3 and N) are connected and measured against PE, then the measured value should be 352k $\Omega$ . And if all power leads are connected conductors and measured against PE, then the measured value should be 154k $\Omega$ .

## 7. Using WallBox

### Connecting a vehicle

- Check the WallBox for any visible external damage. Do not use the Wallbox if damaged.
  - Put the Wallbox into operation by throwing the circuit breakers.
  - The red LED on the Wallbox should be on for the first 2 seconds to indicate initialization is in progress.
  - If the WallBox is equipped with the option to set the max. charging current you can select current which you want to charge.
  - After that, if everything is OK, the LED is permanently green.
  - You can now plug the connector into the vehicle.
  - Once the vehicle is connected, the desired charging current can no longer be changed manually on the Wallbox.
- \*It is important to set the correct charging rate before connecting the Wallbox to the vehicle. Otherwise, the circuit breaker may trip.**

## 8. Status signalling

Wallbox can signal several states before, during or after the charging process. In general, a green LED means ready to charge. Illuminated blue LED means charging is in progress. And a flashing LED indicates a problem. Types and the severity of the different flashes are described below:

### Flashing green/orange LED - may affect the charging rate:

1x - problem with the main switching elements in the EVS

2x - undervoltage or missing phase

3x - possible problem with the mains connection

4x - high temperature

5x - insufficient power supply

### Flashing red LED - charging will be stopped:

1x - problem with the main switching elements in the EVSE

2x - problem with the current protector

3x - problem with the neutral conducto

4x - overvoltage problem

5x - very high temperature

6x - unsupported charging mode



## 9. Disconnecting the vehicle

- Do not disconnect the Wallbox while it is charging.
- Stop charging in the vehicle first.
- If necessary, release the latch in the vehicle charging port.
- Disconnect the Wallbox cable from the vehicle.
- If necessary, close the charging port cover.

## 10. Troubleshooting

- If charging slows down or stops abruptly, check the on-board system in the vehicle to check that it does not indicate an error condition.
- Check the signalling LED on the WallBox (see Using the Wallbox - Signalling status).
- If a high temperature is causing the problem, stop charging until the Wallbox cools down, or direct cooling may help. Should this occur regularly, contact your seller.
- In some cases - if charging has stopped - it may help to disconnect the Wallbox from the car or reset it with a circuit breaker.

## 11. Directives and standards

- The following guidelines and standards have been observed:

### Directives

- Low Voltage Directive 2014/35/EU

### Standards

- EN | 61851-1

- EN | 61851-22

