

wallbox

plug & drive

COPPER INSTALLATION GUIDE



SECURITY PRESCRIPTIONS

 The user must read and understand in its entirety the safety instructions here provided.



Follow all of the safety instructions and take special care to keep this manual handy. This installation manual is intended for qualified personnel only.

Disregard of or actions contrary to the safety information and instructions contained in this manual and printed on the device may lead to electric shock, fire and/or severe injury and either damage to the vehicle's battery or to the Wallbox device. Any resulting damage from such actions is excluded from the warranty.

The installation of the Wallbox device must be performed by a qualified electrician in accordance with the perceptive regulation.

The information provided in this Installation Guide does not relieve the user of responsibility to follow all norms and standards or local regulations that may apply.

The Wallbox charger device has been designed, developed and manufactured to satisfy requirements, safety dispositions and norms in accordance with the directives presented in the declaration of conformity (view Users Guide).

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SAFETY INSTRUCTIONS

- Do not operate in case of observing physical defects, such as cracks, breaks, corrosion or other damage. In this case please contact your distributor to get the Wallbox device replaced.
- Only authorized specialist can open, disassemble, repair, manipulate or modify the Wallbox device. Unauthorized modification of the Wallbox equipment voids the manufacturer's warranty.
- Unauthorized modifications or conversions are forbidden.
- Do not remove any notices on the device, such as safety symbols, warning notices, rating plates, nameplates or cable markings.
- Protect your Wallbox device from any impacts or waypoints to which it could be exposed.
- The charging station does not have its own power switch. Always follow your local electrical regulations and norms, as applicable.
- The Wallbox chargers can only be used under the specified operating parameters and within the normal environmental conditions described on Product description.
- Do not use your Wallbox charger under inclement weather conditions that could affect either the vehicle or the Wallbox device. Do not open the connector panel cover in the rain.



CONNECTOR RECOMMENDATIONS

- Always check the charging cable and contacts for damage and contamination before using them.
- Never use a damaged charging cable, vehicle inlet, or infrastructure socket outlet for charging.
- Never use contacts that are dirty or wet.
- Only connect the charging cable to vehicle inlets and infrastructure socket outlets that are protected against water, moisture and liquids.
- After stopping the charging process the vehicle connector and the infrastructure plug can be disconnected. Never use force to disconnect the vehicle connector from the vehicle inlet and the infrastructure plug from the socket outlet. Such dangerous actions can lead to serious injuries or even death.
- Depending on the charging station and the electric vehicle the termination of the charging process and the duration of unlocking may vary.
- There are electric vehicles that can be started with a connected charging cable. Always make sure to disconnect the charging cable before driving away.
- Do not use the charging cable with an extension cable or an adapter.
- If the connector emits smoke or starts melting, never touch the charging cable. If possible, stop the charging process. In any case, disconnect the power supply of the Wallbox device.
- Make sure that the charging cable is out of reach of children. The charging cable may only be used by persons with a valid driver's license for motor vehicles.
- Be particularly careful with the connector, do not step on it or its cable.
- The cable must NOT UNDER ANY CIRCUMSTANCES be strained when connected to the vehicle.

PRODUCT DESCRIPTION

INTRODUCTION

Wallbox is a revolutionary system of smart charging for electric vehicles, equipped with the latest technology and a functional and sophisticated design to deliver the best performance in the daily life of individuals and companies.

- The Wallbox device has been conceived for private and semi-public use, in such places as private land, company car parks and depots.
- The Wallbox device is used exclusively for charging electric and plug-in hybrid vehicles.
- The Wallbox device is an smart charger provided with connectivity functionalities.

Wallbox software allows our technical support service to solve any issue remotely, no wait times and no need to set appointments and almost instantaneously

The Wallbox device is provided with an specific Electric Vehicle Connector (EVC). Depending on the version acquired it comes equipped with:

- TYPE 1 Connector
- TYPE 2 Connector

This charging station is designed to operate with a supply voltage of 230 V 50 Hz (1P) or 400V 50Hz (3P)

GENERAL

Model Name	Copper Type 1 Case C	Copper Type 2 Case C
Mode	Mode 3	Mode 3
Overall Dimensions (w/o connector)	163x163x52	163x163x52
Weight	4-6Kg, depending on cable length	4-6Kg, depending on cable length
Operating Temperature	-25°C to 45°C	-25°C to 45°C
Storage Temperature	40°C to 70°C	40°C to 70°C
CE marking	IEC61851-1, IEC61851-22	IEC61851-1, IEC61851-22

SPECIFICATIONS

Max Power	74kW one phase	22kW three phase
Input voltage	230V AC \pm 10%	230V AC (1P), 400V AC (3P) \pm 10%
Max. Current	32A, cable sizes up to 5x6mm ²	32A, cable sizes up to 5x6mm ²
Nominal Frequency	50Hz	50Hz
Protection Class	I	I
Degree of Protection	IP54, indoor and outdoor	IP54, indoor and outdoor
Overvoltage Category	CAT III	CAT III

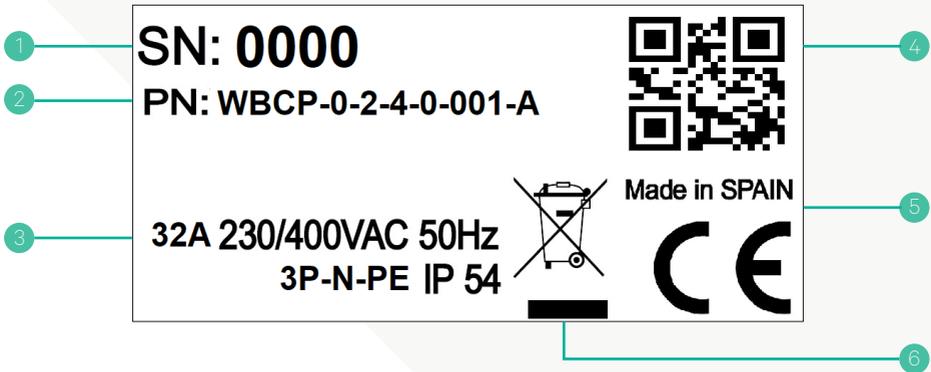
STATUS & USER INTERFACE

Screen dimensions	4,3"	4,3"
Resolution	480x272	480x272
Communications	Wi-Fi, Ethernet, Bluetooth	Wi-Fi, Ethernet, Bluetooth
Authentication methods	App, Face recognition, RFID, NFC	App, Face recognition, RFID, NFC

MECHANICAL

Installation	Wall Mount	Wall Mount
Cooling	Natural Cooling	Natural Cooling

PRODUCT DESCRIPTION



- 1 Serial Number
- 2 Product Number
- 3 Network settings

- 4 QR code
- 5 CE marking
- 6 Disposal information

The Wallbox charger components delivered must comply the following list ¹:

- Wallbox Copper
- Holder
- Installation Guide
- Drilling templates



Mounting components:

- 4x 6,3x40mm Screws
- 4x Ø8mm Wallanchors
- 1x Sealing RutaSeal®
- 4x Plugs



Required tools:

- Phillips head screwdriver
- Torx screwdriver
- Allen screwdriver
- Drilling machine plus 10mm tool
- Cutter or razor for the wall cable

¹ If any of the items described is missing, please contact www.wallbox.com/support or service@wallbox.com

INSTALLATION INSTRUCTIONS

The electrical installation of your Wallbox must be performed by a qualified electrician in accordance with the applicable norms and standards. You must consider the local electrical installation regulations, fire prevention measures and accident prevention regulations as well as emergency routes at this site.

 Please contact an electrician or arrange installation at your premises with your local distributor.

PRECAUTIONS

-  Take special care while selecting the mounting surface, it has to be constructed in order to withstand your Wallbox weight and the mechanical forces associated with the charging process.
-  The power supply connection must comply with the standards and regulations for cabling and building infrastructure.
-  The Wallbox device must be connected through a permanent grounded conductor of the power supply system.
-  Before installing or cleaning your Wallbox ensure that the power supply is turned off and the system has not energy.
-  Sufficient air circulation must be ensured at the mounting site so that the charging station is cooled during operation:
Always observe the allowed operating temperatures of the device.

Do not install the Wallbox charger nearby:

-  Flammable, explosive or combustible materials.
-  Chemicals or solvents,
-  Flood prone areas, water passage areas or humid environments
-  Gas conductors or vapor outlets.
-  Accumulators, storage radiators or heat emitting elements
-  Direct Sunlight radiation, so as to avoid overheating and degradation over time.

 **Outdoors installation:** The charging station should only be installed in covered locations that provide sufficient protection from rainwater. Installation in a garage or carport is recommended, as long as it fulfills the stated requirements.

DIMENSIONS & POSITIONING

Before selecting the mounting situation of your Wallbox, please read the following tips and references:

- According to the product standard, the charging station must be located at a height (y) between 1.30 m and 1.70 m. We recommend mounting the charging station at a height of 1.60 m. Keep in mind that national regulations can limit this height.

It is compulsory to consider the following precautions:

- The required mounting area for the Wallbox charging station is at least 250 x 150 mm (H x W).
- When mounting the Wallbox, the cable should easily reach the charging port.
- For a safe operation of your charging station, the recommended minimum distances to other technical installations must be observed.
- Note that when you install the support for the charger connector, you have enough space to facilitate the ergonomics. It is advisable to have a free area around the device of 400mmx400mm.



Proper installation is absolutely necessary and is beyond the scope of liability of Wallbox

DRILL & MOUNT

DRILLING TEMPLATE PROCEDURE

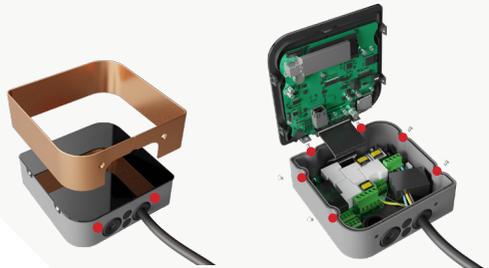
- Use the drilling template as a guide to mark the location on the wall for the mounting screws. Pay special attention when levelling the template. The use of a spirit level is highly recommended.
- Drill the marked mounting holes with the diameter specified for the selected installation hardware and check the positioning of the holes. For installation on concrete, brick and wood walls, use the included installation hardware.



Make sure the power supply is turned off during all mounting steps

OPENING THE DEVICE

1. Unscrew the two screws on the bottom side of the frame and remove it
2. Remove the 6 screws of the front cover
3. Open carefully the cover
4. Disconnect the cover communication cable.



BACKSIDE MOUNTING

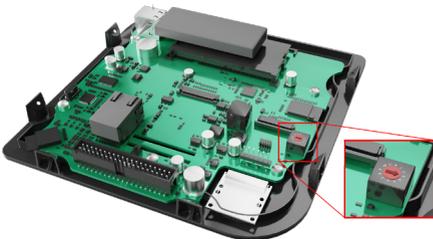
IMPORTANT: In case your wallbox is using a backside-wall cable connection, please follow steps O and Step 00. If not using such cable connection, please go to step1.

Step 0: In the backside of the wallbox charger you will find an insertion with a thinner wall; use a cutter, razor or a sharp tool and carefully make an incision into the cable opening. Please meticulously remove all sharp edges. Take a Rutaseal bushing and install it.

Step 00: Very carefully, firmly insert your cable supply through the bushing. Bush hole sealing is prepared for a range that can vary from 11 to 17mm which falls within the standard for cables that can carry up to 22kW.

COPPER MOUNTING

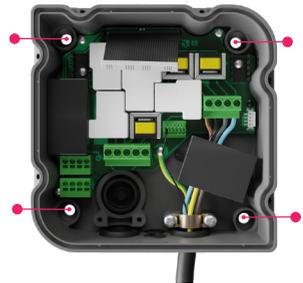
Step 1: Use the selector on the cover to choose the maximum operating current of the supply connection.



POSITION	0	1	2	3	4	5	6	7	8	9
CURRENT (A)	0	6	10	13	16	20	25	32	0	0

Step 2: Proceed to fix your charger to the wall. Insert the screws in the positions marked, starting with the top one, and continuing clockwise.

Verify that your Wallbox is firmly attached and insert the plugs to complete this process.



DRILL & MOUNT

Step 3: Insert the mains supply cable through the bushing (as pictured)

Step 4: Connect the power lines, neutral and protective earth using the terminal blocks provided



One Phase Configuration

From left to right:

L1 (Current-carrying conductor)

N: Neutral line

⊕ Protective Earth

The presented color connection is not subject to an international standard, please always check the power supply connection



Three Phase Configuration

From left to right:

L1,L2 & L3 (Current-carrying conductors)

N: Neutral line

⊕ Protective Earth

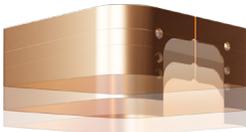
The presented color connection is not subject to an international standard, please always check the power supply connection

Step 5: confirm the previous four steps.

Step 6: reconnect the cover communication cable, and close the front cover taking special care of the fitting and that the O-ring sealing remains in place.

Step 7: Screw the six screws of the cover

Step 8: Insert the frame and screw the two screws.



HOLDER MOUNTING

Step 1: Mark the location on the wall for the mounting screws.

Step 2: Drill the marked holes.

Step 3: Fix the socket to the wall. Insert the screws in the positions marked.

STARTUP

Once the DRILL & MOUNT process is completed your Wallbox is ready to operate. But first lets take a moment to read and review some useful information before starting to use your Wallbox:

- Do not use your Wallbox for purposes not described in the Product description chapter
- Do not open in any case the charger's front cover while the power supply is on.
- Special precautions must be taken for medical or implantable electronics. Please contact the device manufacturer to understand the effects that charging may have on such electronics.
- REVIEW & CONFIRM ALL THE STEPS TAKEN



At this point you can turn on the power supply and enjoy your Wallbox experience

TROUBLESHOOTING

- Your network supply is continuously checked to ensure a safe operation of the device. If one of the parameters is not in range the charger will stop the power supply to the vehicle.
- Charging process uses a secure communication protocol (called Control Pilot) between your wallbox and the vehicle. If the car detects a problem during the charging process, it will be interrupted. At this point a message will pop up in your status menu.
- The internal stats of the Wallbox are also being parameterized in real time. A change in the normal operating values will lead the charger to safely disconnect the power supply to the vehicle.

MAINTENANCE

Please take some precautions to ensure a correct maintenance :

- There are no parts inside your Wallbox that need to be maintained by the user. Only qualified electrician can open and manipulate your Wallbox.
- Remeber to ensure that the power supply is turned off, before start cleaning your charger.
- In case you want to clean your Wallbox, we recommned you to use a soft, dry or damp cloth. Do not use a spray or direct water to clean your Wallbox charger.
- It is mandatory to use the protection element or support, provided as an accessory, in order to protect the connector from falling, dirt and other meteorological elements

WARRANTY

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