

COMMANDER 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 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 User Guide).

DISCLAIMER

This document is intended to be used as a reference guide for the installation and operation of the charger.

The product images shown are for illustration purposes only and may not be an exact representation of the product.

Wallbox reserves the right to make changes in product and documentation specifications and procedures at any time and without notice.

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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.
- 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 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 issues 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 230V 50Hz (1P) or 400V 50Hz (3P).

GENERAL SPECIFICATIONS

Model Name	Wallbox Commander Type 1 / Wallbox Commander Type 2
Mode	Mode 3
Overall Dimensions (w/o connector)	220x150x135mm
Weight	4-6Kg. (w/o cable)
Operating Temperature	-25°C to 45°C
Storage Temperature	-40°C to 70°C
CE marking	IEC61851-1, IEC61851-22

ELECTRICAL SPECIFICATIONS

Max Power	7,4 kW (1P) / 22kW (3P)
Input voltage	230VAC ±10% (1P) / 400VAC ±10% (3P)
Max. Current	32A, cable sizes up to 5x6mm ²
Nominal Frequency	50Hz
Metering	Class I
Degree of Protection	IP54
Overvoltage Category	CAT III

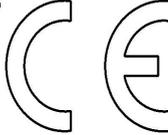
STATUS & USER INTERFACE

Communications	Wifi / Ethernet
Communication interface	myWallbox and OCPP
Screen Dimensions	164,9x95,4 mm (7 inch)
Tochscreen Model	Capacitive
Resolution	800x480 px



PRODUCT DESCRIPTION

wallbox

❌ 
Ⓢ 

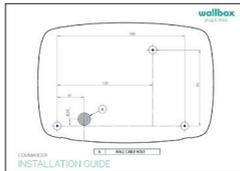
1 SN: 0000
2 PN: WBCM-0-2-4-0-001-A
3 32A 230/400VAC 50Hz 3P-N-PE
4 Made in Spain

- 1 Serial Number
- 4 Manufacturing country
- 2 Part Number
- 5 CE marking
- 3 Network settings
- 6 Disposal information

Wallbox	Model	Cable	EVC	Power	Version	Custom	Revision
WB	CM	O - 5m L - 10m S - Socket	1 - Type 1 2 - Type 2 0 - No EVC	1 - 3,7kW 2 - 7,4kW 3 - 11kW 4 - 22kW	-	-	-

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

- Wallbox Commander
- Installation Guide
- Drilling templates



Mounting Components:

4x 6,3x40mm Screws

4x Ø8mm Wallanchors

1x Sealing RutaSeal®

4x Plugs

1x Torx



Required tools:

- Phillips head screwdriver
- Torx screwdriver
- Drilling machine plus 8mm tool
- Utility Knife

¹ If any of the items described is missing, please contact your distributor.



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

ELECTRICAL PROTECTIONS

The power supply line must be hardwired to an existing installation and according to your local regulations.

The charger must be electrically protected installing externally a Miniature Circuit Breaker (MCB) and a Residual Circuit Breaker (RCD).

- MCB: maximum value according to the maximum output current of the charge point.
- RCD of at least type A (30 mA triggering current) for single phase and type B for three phase.

Recommended protections, take also into account the local regulations

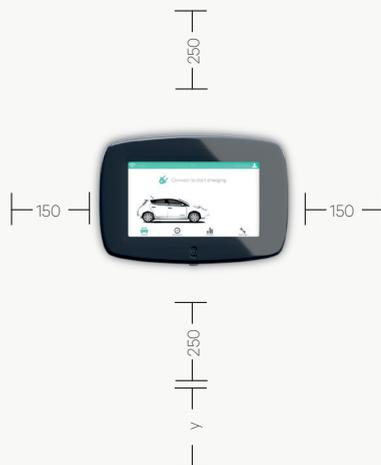


DIMENSIONS & POSITIONING

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 1,3m and 1,7m. We recommend mounting the charging station at a height of 1,6 m.

Keep in mind that local 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 250x150mm (HxW).
- When mounting the Wallbox, the cable should easily reach the vehicle inlet.
- 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 400x400mm.

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



Installation video available at wallbox.com/installation

DRILL

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

MOUNT

1. OPENING THE DEVICE

Step 1.1. Remove the screw on the bottom side of the frame.

Step 1.2. Open carefully the cover.

Step 1.3. Disconnect the cover communication cable.

Step 1.1

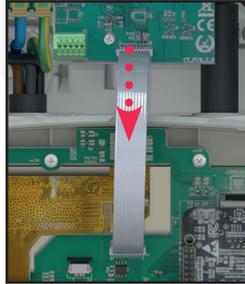


Pressure Points

Step 1.2

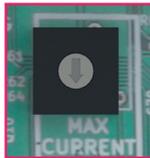


Step 1.3



CURRENT SELECTOR

- 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

BACKSIDE MOUNTING

IMPORTANT: In case your wallbox is using a backside-wall cable connection, please follow these steps. If not using such cable connection, please go to MOUNTING section.

Step 1: In the backside of the wallbox charger you will find an insertion with a end plug.

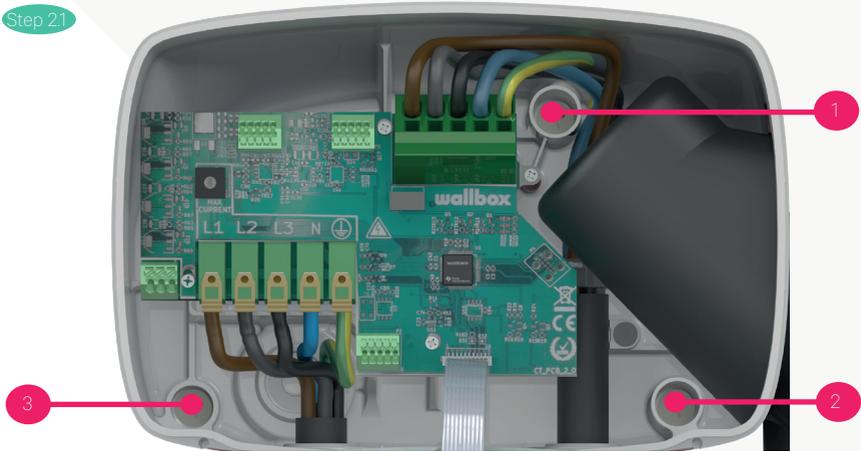
Step 2: Very carefully, firmly insert your cable supply through the bushing. Bush hole sealing is prepared for a range that can vary from 11 to 17mm which falls within the standard for cables that can carry up to 22kW.



2. MOUNTING

Step 2.1: Proceed to fix your charger to the wall. Insert the screws in the positions marked, starting with the top left one, and continuing clockwise. Verify that your Wallbox is firmly attached and insert the plugs to complete this process.

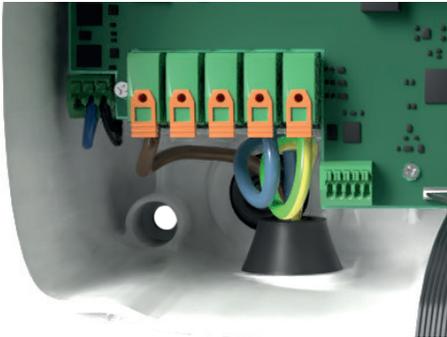
Step 2.1



Step 2.2: Insert the mains supply cable through the bushing

Step 2.3: Connect the power lines, neutral and protective earth using the terminal blocks provided.

Step 2.3



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.

Step 2.3



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.

DRILL & MOUNT

Step 24: Confirm the previous four steps.

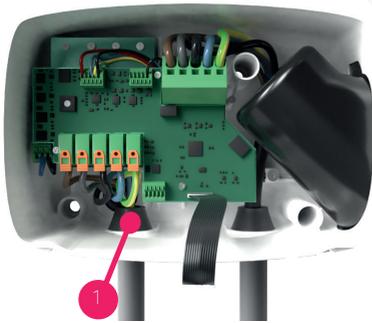
Step 25: Reconnect the cover communication cable.

ETHERNET CONNECTION

The charger can be connected to the internet using integrated Ethernet port installed at the cover module.

Step 1. Insert the Ethernet cable through the bushing.

Step 2. Connect the cable to the Ethernet port.



POWER SHARING (OPTIONAL)

If your charger comes with Power Sharing please follow the instructions in the "Power Sharing Manual"

- Available at wallbox.com/installation



3. CLOSING THE DEVICE

Step 3.1: close the front cover taking special care of the fitting:

Step 3.2: Insert the frame and the screw.



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.



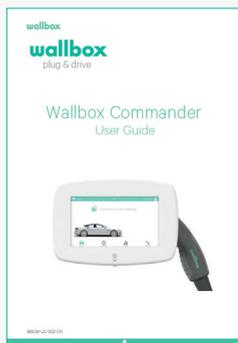
At this point you can turn on the power supply and enjoy your Wallbox experience



USER GUIDE

Please follow the User Guide to start configuring your Wallbox.

- The "User Guide" is available at wallbox.com/support



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.
- Remember to ensure that the power supply is turned off, before start cleaning your charger.
- In case you want to clean your Wallbox, we recommend 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

www.wallbox.com

service@wallbox.com

België/Belgique
+32 28082353

España:
+34 930181668

Luxembourg
+34 930181668

Portugal
+351 308809158

Suomi
+34 930181668

Danmark
+45 89870290

France
+34 930181668

Nederland:
+31 202410845

Österreich
+43 720882116

Sverige
+46 852503203

Deutschland
+49 3031199629

Italia
+39 0694804494

Norge
+47 23960380

Schweiz/Suisse/Svizzera:
+41 435084675

United Kingdom
+44 2038087682

