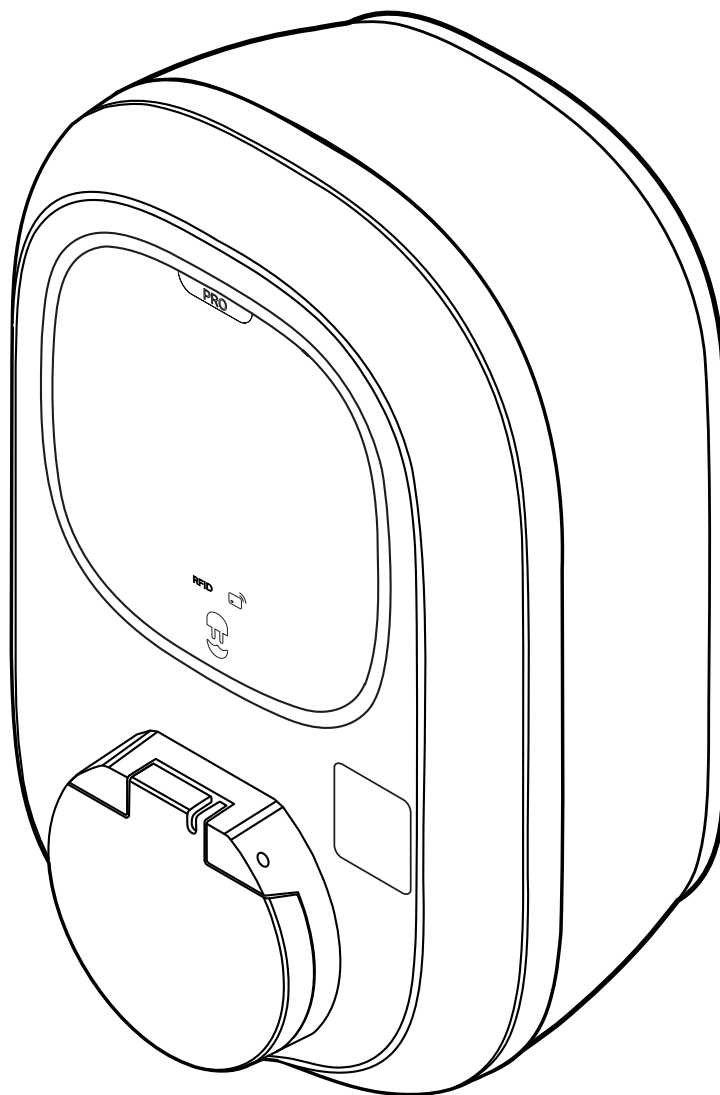


Wallbox Pulsar Pro



Installation manual

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Additional technical information

The technical data for the Wallbox Pulsar Pro and additional accessories are collated in product-specific data sheets. You can download these documents from the **Wallbox support website** using the following link:



<https://support.wallbox.com/en/knowledge-base/pulsar-pro-product-overview/>

 NOTE

Displaying the additional information on a computer, tablet or smartphone
Additional technical information is made available in the Portable Document Format (PDF).
• To display PDF files, you need the free Adobe Acrobat Reader or comparable software.

Do you require assistance with your Wallbox charger? Our dedicated support network is designed to address your inquiries promptly and effectively.

Please scan the appropriate QR code to direct your request:



Frequently Asked Questions
Scan this code to access our comprehensive self-service portal for connectivity troubleshooting, charging performance, and account management.



Wallbox Chatbot (Support & Ticket Creation)
Scan this code to launch our virtual assistant. The chatbot is available to guide you through real-time troubleshooting and, if further assistance is required, will gather your details to officially create a support ticket for our team.

Intended use

The Wallbox Pulsar Pro charger is a charging system designed exclusively for charging electric vehicles (BEV or PHEV) in Mode 3 in accordance with the IEC 61851-1 standard. It is available with a single charging socket for connecting a certified charging cable in accordance with IEC 62196-2. It is suitable for stationary installation indoors and outdoors, provided that local regulations and requirements are observed and the permissible environmental conditions are met. The Pulsar Pro can be installed and operated as a single device or in conjunction with identical or compatible charging stations in a charging group. For accurate measurement of charging energy, the Pulsar Pro integrates a certified MID meter, ensuring the highest standard of measurement accuracy required for legal metrology and reliable tax reimbursement. Furthermore, it implements ISO 15118. The electrical installation must be carried out by a qualified electrician. No prior knowledge is required for practical use after commissioning. However, the safety instructions and operating instructions must be observed and complied with at all times.

Information in this document

This document explains how to install, configure and commission the Wallbox Pulsar Pro charger. It is recommended that all steps described in this document be carried out exclusively by an electrician qualified by Wallbox!

Technical information	User	Wallbox certified technician
• Installation manual (this document)		
• Data sheets		

General information

This manual describes all working steps required to install and/or operate the product it concerns.

Certain sections of this manual are specially formatted for quick and easy reference.

- Descriptions listing equally valid options are indicated by bullet points.
- 1 Descriptions listing operating steps are numbered in chronological order.
- Descriptions that require an additional step are marked with an arrow.

DANGER

Indicates life-threatening electrical voltages

Sections marked with this symbol indicate electrical voltages that present a danger of loss of life or grievous bodily injury.

- Actions marked with this symbol must not be carried out under any circumstances.

ATTENTION

Indicates important actions and further hazards

Sections marked with this symbol indicate further hazards that may result in damage to the product or to other connected components.

- Actions marked with this symbol must be carried out with special care.

NOTE

Indicates important information for operation or installation

Sections marked with this symbol indicate further important information and features necessary for successful operation.

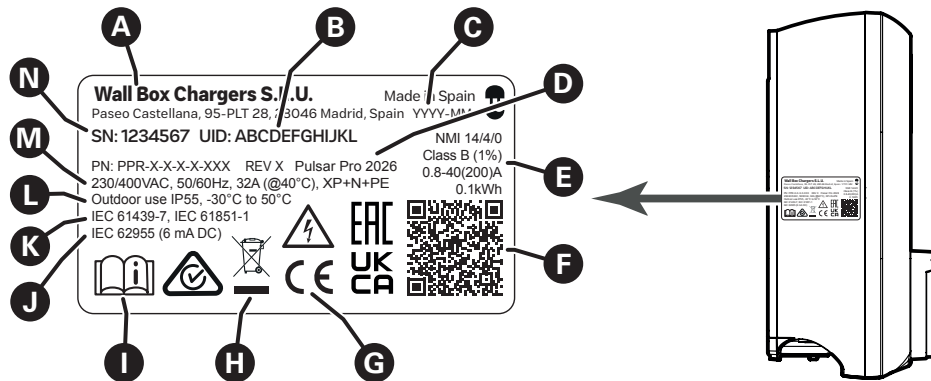
- Actions marked with this symbol should be carried out as required.
- Passages marked with this symbol contain valuable additional information.

Introduction to the Wallbox Pulsar Pro

The Wallbox Pulsar Pro charger is the ideal solution for efficient vehicle charging in corporate fleets and managed charging infrastructures where automatic reimbursement and regulatory compliance require highly reliable and accurate measurements. In addition to simple mechanical and electrical installation, the Wallbox app for mobile devices (iOS, Android) ensures quick and easy setup.

Identifying your charger

The model variant of your charger can be unambiguously identified on the type plate located on the housing side.



- | | | | |
|---|--|-------------------------------------|---|
| A Manufacturer and address | E Internal MID meter information | I 'Read instructions' advice | L Protection class / impact strength housing |
| B UID: Unique identifier | F QR code for serial number and UID | J Temperature range | M Connection requirements |
| C Production date | G CE label | K Standard | N Serial number |
| D Indication of type/production series | H Disposal advice | | |

Components included with your charger

The Wallbox Pulsar Pro is delivered including the following components:

- Wallbox Pulsar Pro, 1 pc. 
- Hexagon head screw, 6 × 40 mm, 2 pcs. 
- Wall plugs 8 × 40 mm, 2 pcs. 
- TX20 half-round head screw, 4 × 10 mm, 5 pcs. * 
- TX20 Security half-round head screw, 4 × 10 mm, 2 pcs. 
- Leaflet with one (1) RFID card, 1 pc. 

* Note: Two TX20 screws are pre-installed at the factory.

! NOTE

Checking the components included

Check immediately after unpacking whether all components are included: should any components be missing, please contact the dealer from whom you purchased the charger.

! ATTENTION

Storing the original packaging

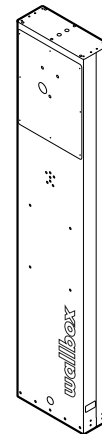
Keep the original packaging in a safe place. In the event of damage that cannot be repaired on site, your charger may need to be disassembled and sent in for repair. To ensure proper delivery, the charger must be protected from mechanical damage by the original packaging or other equivalent packaging. No liability is accepted for damage in transit.

Available accessories

The following accessories are available separately.

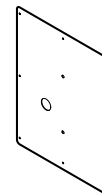
- **Eiffel pedestal**

Pedestal for mounting one or two Wallbox Pulsar Pro chargers (via optional Eiffel adapter plate for socket chargers)



- **Eiffel adapter plate for socket chargers**

Adapter plate for mounting a Wallbox Pulsar Pro charger on the Eiffel pedestal (one adapter plate is required per charger)



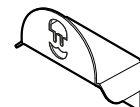
- **Cable Dock**

Cable holder with Type 2 charging plug receptacle for mounting on an Eiffel pedestal or wall



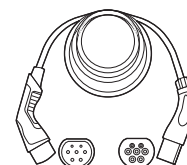
- **Cable Holder**

Cable holder for mounting on an Eiffel pedestal or wall



- **Type 2 Cables of 5, 7 and 10 meters**

Type 2 charging cable according to IEC 62196-2, up to 32 A 480 V AC, 3-phase, various lengths



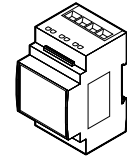
- **Type 2 to Type 1 Cables**

Type 2 to Type 1 adapter cable according to IEC 62196-2, up to 32 A 230 V AC, single phase, length approx. 4 m



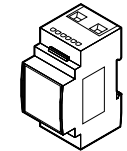
- **Three Phase Power Meter**

External meter for PV charging and dynamic load management



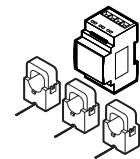
- **Single Phase Power Meter**

External meter for PV charging and dynamic load management



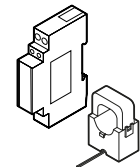
- **Three Phase Clamp Power Meter**

External meter for dynamic load management with cable type current transformers



- **Single Phase Clamp Power Meter**

External meter for dynamic load management with a cable type current transformer



Recommended accessories

You will need the following components to commission your charger and set up communication with the optional energy meters.

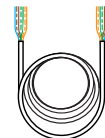
- **Mobile phone**

Mobile phone (iOS or Android) for commissioning and configuration via the Wallbox app & portal



- **Ethernet cables**

Unassembled Ethernet cable CAT5e S/FTP or higher, length as required, for communication to energy meters



Installation

The entire installation of the Wallbox Pulsar Pro must be carried out by a qualified specialist electrical contractor.

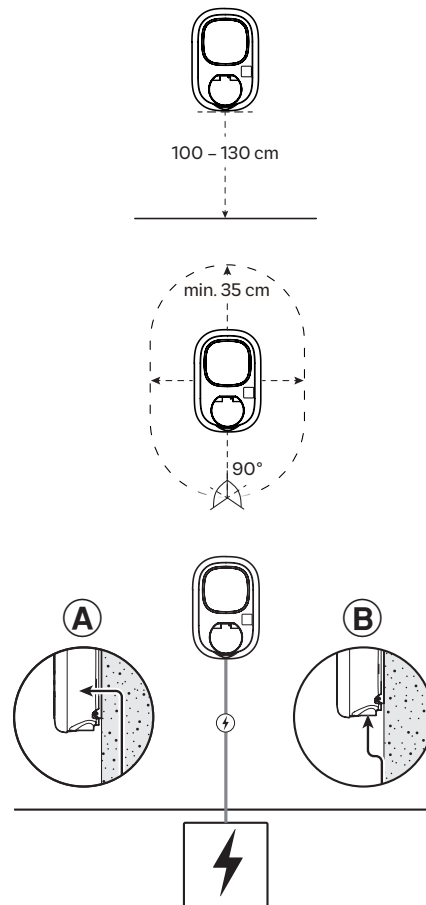
DANGER

Dangerous electrical currents

Electrical installation, as well as final testing and certification for operation must be carried out by a qualified specialist electrical contractor, who, on the basis of their specialist training and experience, as well as their knowledge of the relevant standards, is able to assess and carry out the working steps described in this manual and recognise potential hazards.

Installation site requirements

- The installation height should be between 100 and 130 cm (ground to bottom edge of housing).
- The installation surface must be level and sufficiently load-bearing (minimum: weight of the charger including charging cable). A minimum distance of 35 cm from other technical equipment must be maintained.
- Ideally, the installation site should provide a ready connection to the electricity grid. Otherwise, a separate power supply cable must be installed, either flush-mounted (A) or surface-mounted (B).



Tools required

For mechanical and electrical installation of the charger, you will need the following additional tools:

- Electric drill



- 8 mm Ø drill bit suitable for the respective mounting surface



- Pencil



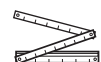
- Hammer



- Spirit level



- Tape measure



- Phillips screwdriver



- Torx screwdriver (TX 20 & TX 15)



- Stripping tool



- Step drill bit $\varnothing$ 32 mm



- Wire cutter



- Slotted screwdriver



- Ratchet and socket nut (or spanner)



- Utility knife



- Pick tool, straight



- Optional: Voltage tester



Mounting the wall plate



DANGER

Danger from electrical voltages

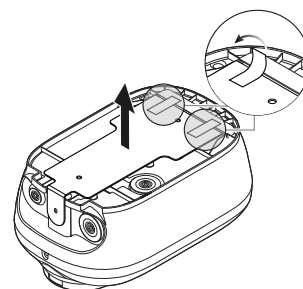
Always observe the 5 safety rules:

- 1 Cut power source
- 2 Secure all cut-off devices
- 3 Verify absence of voltage
- 4 Ground and short-circuit
- 5 Cover or bar access to adjacent components under voltage

The Wallbox Pulsar Pro is mounted using a wall plate that is factory-fitted to the rear of the charger.

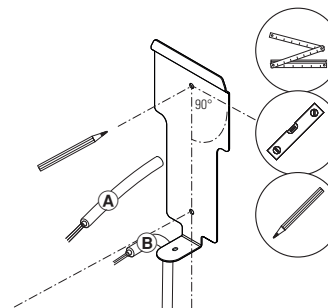
Proceed as follows:

- 1 Place the charger on the front cover and remove the two adhesive tapes on the back to detach the wall plate from the charger.



- 2 Align the wall plate depending on the supply cable (A or B) with the spirit level vertically and horizontally at the mounting position.

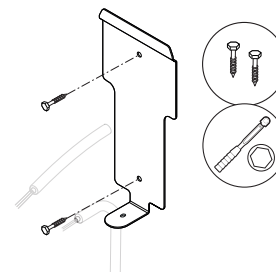
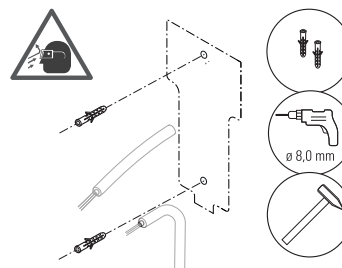
- 3 With the pencil, mark the two fixing points.



4 Pre-drill the two marked fixing points with the electric drill and drill bit ($\varnothing$ 8 mm).

5 Drive the wall plugs into the pre-drilled fixing points with the hammer.

6 Mount the wall plate using the two supplied 6 × 40 mm hexagon head screws and the ratchet/spanner tool. Tighten the screws hand tight.

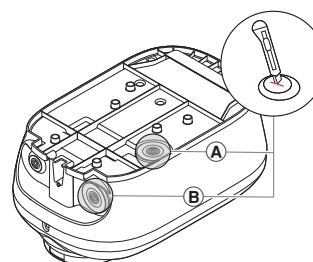


Preparing and fixing the charger in place

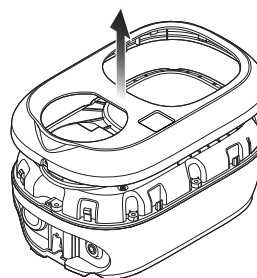
The Wallbox Pulsar Pro must be prepared for on-site installation.

Proceed as follows:

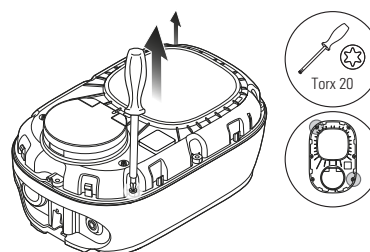
- 1 Depending on the desired supply cable, you must prepare an inlet in the charger and cut the corresponding grommet with a cutter.
 - Variant (A) : Power supply cable via the rear
 - Variant (B) : Power supply cable via the underside



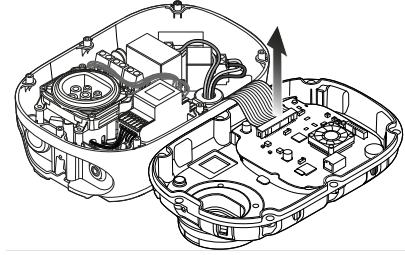
- 2 Turn the charger over and place it on its back to unclip the style cover by carefully pressing the socket lid with your fingers.



- 3 Loosen the two (2) factory-installed corner screws and carefully lift off the cover.



- 4 Carefully detach the ribbon cable from the cover by pressing the lateral latches and set the cover aside.



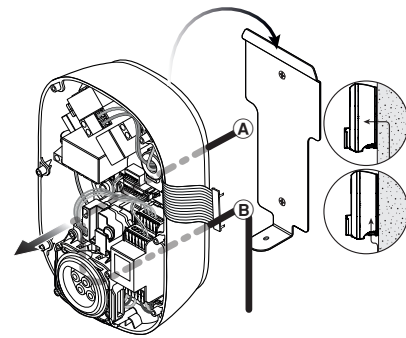
ATTENTION

Ensuring the correct assignment between cover and charger

When removing the cover from the charger, you must make a clear note of which cover belongs to which charger, particularly in the case of group installations.

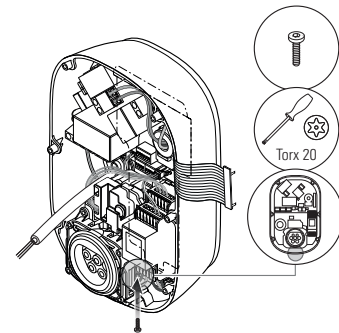
- Swapping covers between different chargers may affect the fit and performance of the charger.

- 5 Insert the power cable through the prepared grommet into the charger housing.



- 6 Hang the charger into the wall plate using the upper lug.

- 7 Fasten the charger to the wall plate using one of the two 4 × 10 mm TX20 Security half-round head screws.

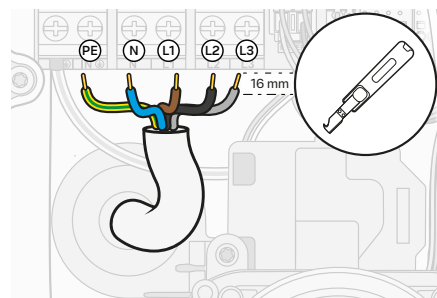


Electrical connection

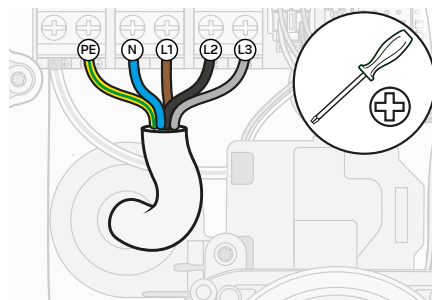
In the next step, connect the power supply cable to the terminal blocks.

Proceed as follows:

- 1 Shorten the power supply cable to the required length for the terminal blocks.
- 2 Remove the insulation of the individual conductors to a length of 16 mm.
 - End ferrules must be fitted on flexible conductors.



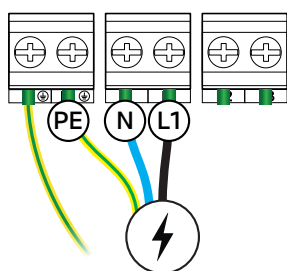
- 3 Insert the individual conductors of the power supply cable into the respective terminals and tighten them using the Phillips screwdriver (torque: 2.5 Nm).



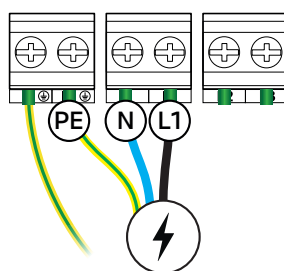
The following table shows the connection options for single-phase and three-phase wiring.

Single-Phase-Wiring

Single-phase Set-up



Single-phase PME*

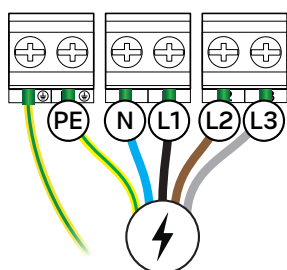


UK only

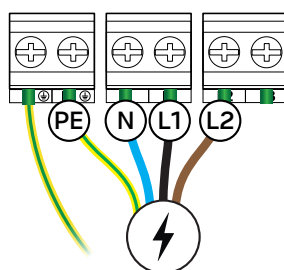
Can be connected to the PME supply according to BS 7671:2018 + A1:2020 + A2:2022 722.411.4.1

Three-Phase-Wiring

Three-phase Set-up



Bi-phase Set-up



For this kind of installation, check compatible EV models that support this configuration.

⚠ ATTENTION

Single phase wiring of the charger

The three-phase Pulsar Pro charger can be installed in either a **Single-Phase Set-up** configuration, if required.

⚡ DANGER

Dangerous electrical currents

Ensure that the maximum voltage between the L and N inputs is less than 264 V. Otherwise, the electronic components of your charger may be damaged.

Connection of a control cable in accordance with EnWG §14 A

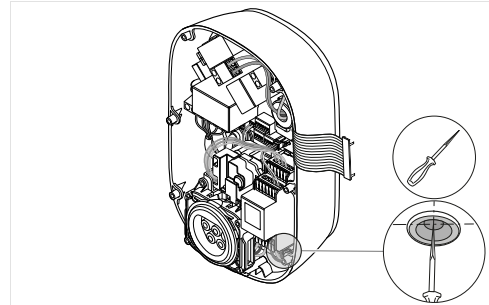
The Wallbox Pulsar Pro is prepared for the connection of an external control cable via a terminal block, which the local energy supplier can use to reduce its charging power to 6 A (4.2 kW) if required.

The following requirements apply to the control cable:

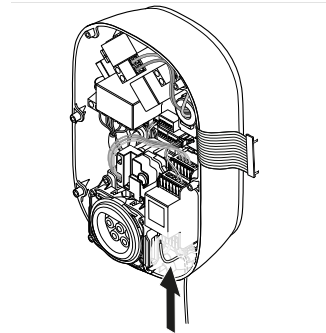
- Solid conductor, 0.5 to 1.5 mm², stripping length: 9 mm
- Fine-stranded conductor, 0.5 to 1.5 mm² / 0.5 to 1.0 mm² with ferrules, stripping length: 9 mm

To connect, proceed as follows:

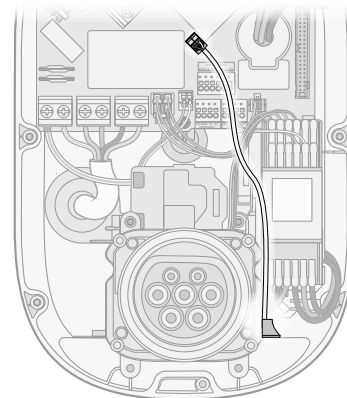
- 1 Open the second grommet with the pick tool.



- 2 Insert the two-core control cable into the housing.



- 3 Connect the control cable to the potential-free terminal labelled +12V GND on the main circuit board of the charger.



NOTE

For Germany only: External access by the energy supplier via a potential-free contact

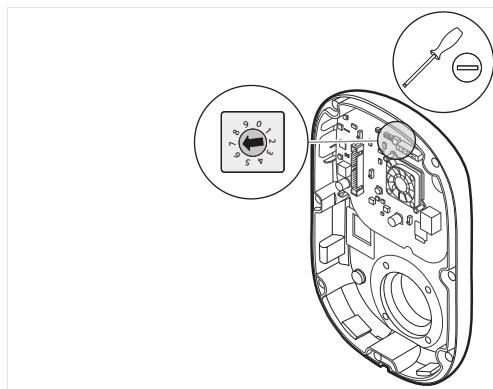
The charger can be connected via the control cable to a suitable ripple control receiver or a similar hardware solution supported by the energy supplier: A maximum cable length of 30 metres is permitted.

Alternatively, the charging power can also be reduced via the internal load management of the Wallbox Pulsar Pro.

Setting the current

Proceed as follows to set the permissible current via the current selector switch on the circuit board in the charger cover.

- 1 Set the current selector to a suitable setting.



Position	0	1	2	3	4	5	6	7	8	9
Current (A)	R	6	10	13	16	20	25	32	R	R

! NOTE

For Germany only: Restriction for the 1-phase connection of the Wallbox Pulsar Pro

According to VDE-AR-N 4100:2019-04, if the installation is single phase, the maximum current needs to be set to a value equal or lower than 20 A.

! ATTENTION

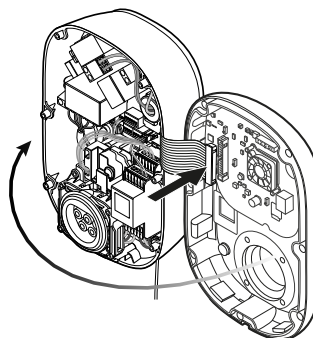
Reserved settings

Make sure that the selector does not point to 0, 8 or 9; these settings are reserved.

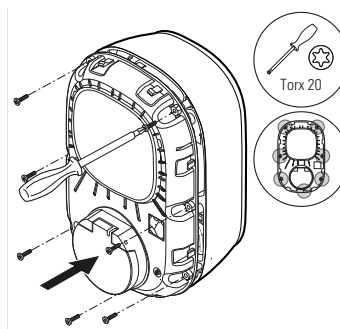
Closing the Wallbox Pulsar Pro

Proceed as follows:

- 1 Carefully reattach the ribbon cable to the cover and place the cover on the charger frame.

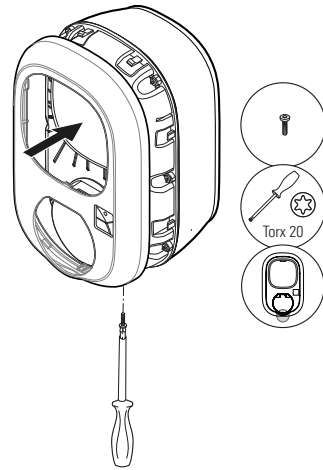


- 2 Insert all five (5) of the TX20 half-round head screws supplied, as well as the two (2) corner screws you removed earlier (seven TX20 half-round head screws in total) and screw the cover onto the charger by hand.



- 3** Place the frame on the cover and make sure that the screw hole on the underside of the frame is correctly aligned.

- 4** Screw the frame into the charger hand tight using the second of the two 4 × 10 mm TX20 Security half-round head screw.



The mechanical and electrical installation of the Wallbox Pulsar Pro is now complete.

Registration, charging process and meter display

Once installation is complete, you will need to create a Wallbox account to register and then use your charger.

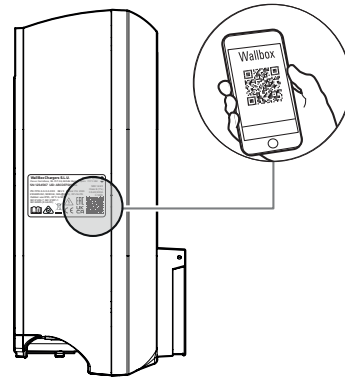
Registering your charger

Proceed as follows:

- 1 Download and start the **Wallbox** app and create an account.
→ Follow the instructions on the screen.



- 2 Add your charger to your account by scanning the QR code on the type plate on the housing side of the charger with the **Wallbox** app.
 - If you want to configure several chargers as a charging group, scan the QR code on the type plate of the respective charger to add them.

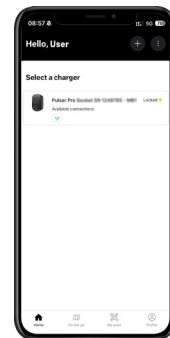


! NOTE

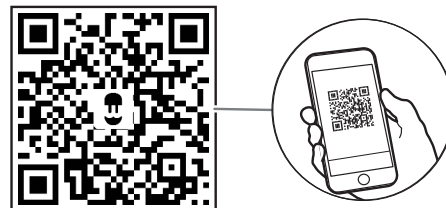
Adding the charger(s) manually

As an alternative, you can add your charger(s) by manually entering the **Serial number**, **Unique identifier (UID or PUK)** as well as the **Country** and **Time zone** where your chargers are installed.

- 3 If you want to build a charging group, add additional chargers to your account as described above.
 - Also check via the **Wallbox** app whether updates are available for your charger.



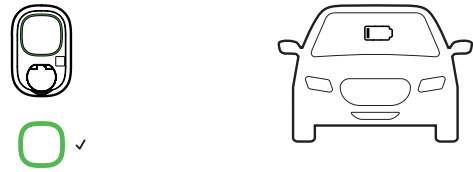
- 4 Scan the QR code shown here with the camera of your smartphone to get more information about the charger.



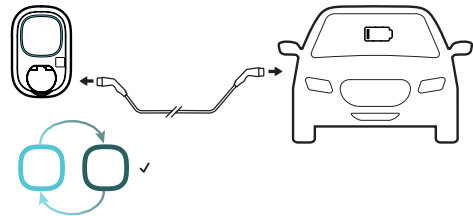
Charging procedure

Proceed as follows to charge your EV using the Wallbox Pulsar Pro:

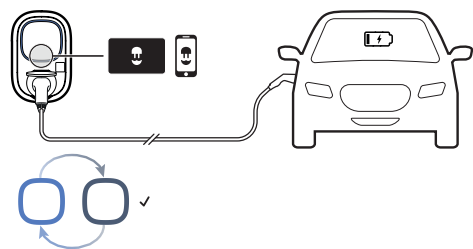
- 1 Park the vehicle so that you can easily reach the charging port with the charging cable.
→ When the charger is ready for charging, the LED display lights static green.



- 2 Open the charging inlet at the vehicle and plug in the charging connector.

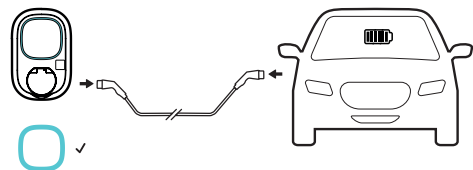


- 3 Open the charging socket lid on the charger and plug in the charging connector.
 - When the vehicle is connected and recognised, the LED display pulses light blue.



- 4 Enable the charging process using the supplied RFID card or via the Wallbox app.
 - The LED display colour changes to dark blue and pulses when charging begins.

- 5 When charging is complete, it is automatically terminated by the vehicle, and the LED display lights up static light blue.
 - Unplug the charging cable from the vehicle's charging inlet and from the charger and store the charging cable.



- 6 The charger is ready for operation and awaits the next charging procedure.
 - The LED display lights static green.



! NOTE

Unlocking a charger with a yellow LED display

If the LED display lights yellow, this means the charger is locked.

- You need to unlock the charger to start a charging session.
- Only predefined authorised users can unlock a charger.

! NOTE

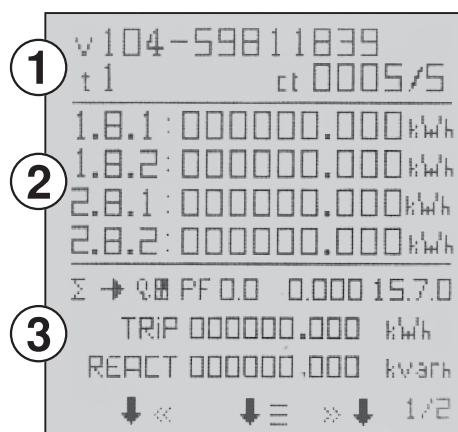
Synchronized LED display colours

The colour of the LED display will match the colour of the charging wheel in the Wallbox app when connected to your charger.

Reading the MID meter

In addition to the Wallbox app, the charger's integrated MID energy meter provides insights into the charging processes.

- ① This area shows the MID relevant software version number, the actual tariff, the meter serial number/CRC code (switching every 10 seconds) and the CT ratio.
- ② This area the display shows the MID relevant measurement values for positive (1.8.x) and negative (2.8.x) active tariffs.
- ③ This area displays additional supplementary system information that is not relevant for operations.



Advanced configuration options

This chapter describes the following configuration options for the Wallbox Pulsar Pro:

- Setting up and configuring a charging group
- Three Phase Power Meter and Three Phase Clamp Power Meter: Electrical connection

Setting up and configuring a charging group

To set up larger charging parks, up to 100 chargers can be operated as a charging group via a serial Modbus cable connection. While the first and last charger in the daisy chain are set up differently, all other chargers in the charging group are configured identically.

! NOTE

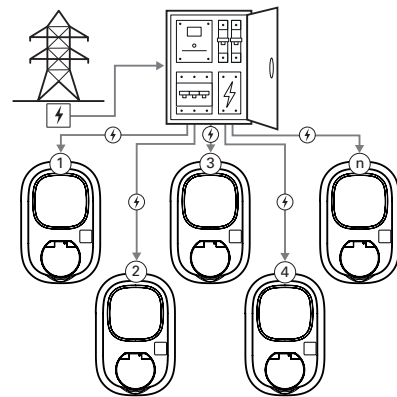
Compatibility between Pulsar Pro and other charger variants

- **For DACH market:** The Pulsar Pro charger is fully compatible with the tethered Wallbox ABL Pulsar and the socket version Wallbox ABL Pulsar Pro and can be combined in a charging group.
- **For all other countries:** The Pulsar Pro charger is fully compatible with the tethered and socket versions of the Pulsar Max and Pulsar Pro and can be combined in a charging group.

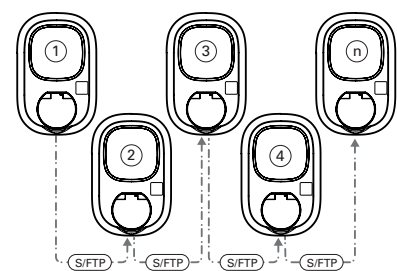
Please note that all Pulsar Pro and Max variants for the DACH market and all other EU countries are fully compatible with each other.

Proceed as follows:

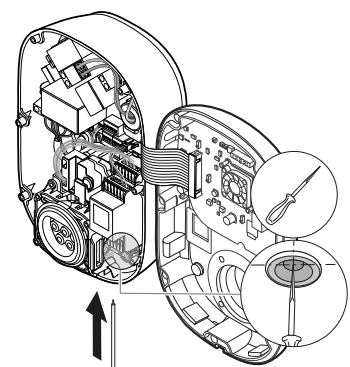
- 1 Connect the required number of chargers for the group (maximum 100 units) to the domestic installation.
 - To do so, proceed as described in the chapter “Installation” from page 8.
 - Each charger must be protected by its own MCB.



- 2 Run individual network cables between all chargers in the charging group.
 - Shielded network cables (S/FTP, CAT 5e or higher) are recommended for wiring the Modbus interfaces.



- 3 Remove the covers from all chargers in the charging group.
 - Open the grommet on the underside of the housing of each charger using the pick tool.
 - Insert a network cable into the first charger. The charger is connected to the downstream charger via this network cable.



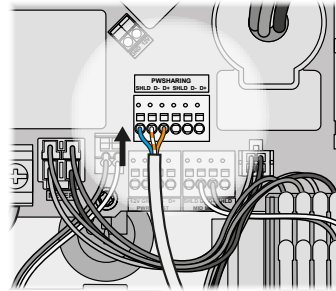
! NOTE

Modbus cabling between the chargers in the charging group

- The contacts of the **PWSHARING** terminal block on the main circuit board in each charger are used for the Modbus cabling.
- Use 1 twisted pair of wires for connection to the **D-** and **D+** contacts and another wire for the **SHLD** contact of the **PWSHARING** terminal block.
- Please note that the communication cable between two chargers must not be longer than 500 metres. In addition, a total Modbus cable length of 1,000 metres must not be exceeded without an additional amplifier.

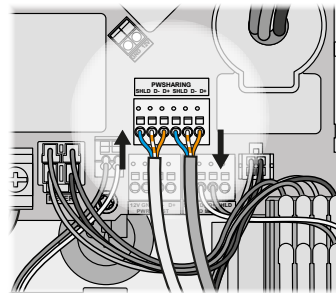
4 Switch to the first charger in the charging group.

- Connect two conductors of a twisted pair of wires of the network cable (e.g. orange and orange-white) to the right **D-** and **D+** terminals and another conductor to the **SHLD** terminal of the **PWSHARING** terminal block.
- Make a note of the colour and assignment of the three conductors.
- Use wire end ferrules for each conductor.



5 Switch to the second charger in the charging group.

- Connect the three conductors of the incoming network cable in the noted colour sequence to the three left terminals **SHLD**, **D-** and **D+** of the terminal block **PWSHARING**.
- Insert another network cable and connect three conductors of this outgoing network cable in the noted colour sequence to the three right terminals **SHLD**, **D-** and **D+** of the **PWSHARING** terminal block.



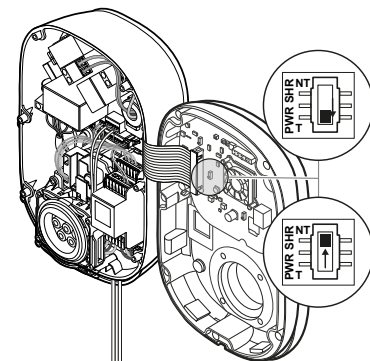
! NOTE

Modbus cabling within the group

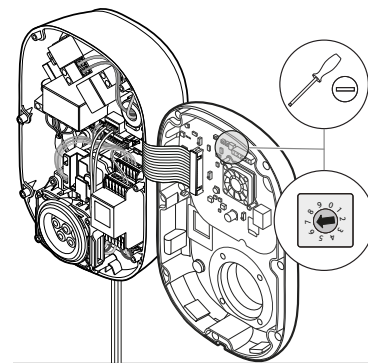
Repeat **step 5** for all subsequent chargers in the charging group. On the last charger, only the three conductors of the incoming network cable are connected to the three left terminals **SHLD**, **D-** and **D+** of the **PWSHARING** terminal block.

6 Locate the **PWR SHR** (Power Sharing) switch in the centre to the right of the ribbon connector on the circuit board in the charger cover.

- Move the switch on the first and last charger in the charging group to the lower **T** position.
- Move the switch on all other chargers in the charging group to the upper **NT** position.



- 7 Set the current selector on the circuit board in each charger cover to a suitable setting.
- Set the value for each charger to the upstream circuit breaker.
 - The settings for load management in the charging group are made in the **Wallbox** app once installation is complete.



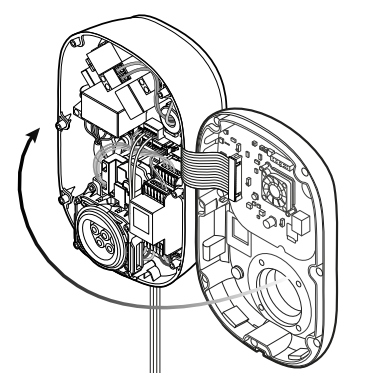
Position	0	1	2	3	4	5	6	7	8	9
Current (A)	R	6	10	13	16	20	25	32	R	R

⚠ ATTENTION

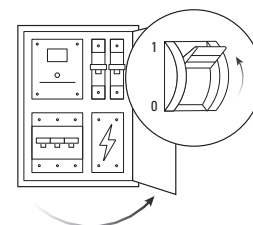
Reserved settings

Make sure that the selector does not point to **0**, **8** or **9**; these settings are reserved.

- 8 Close the charger housings as described in the section “Closing the Wallbox Pulsar Pro” on page 14.



- 9 Switch on the back-up fuses in the domestic installation.
- The chargers in the charging group are started and can then be set up via the **Wallbox** app.



Electrical connection of the Three Phase Power Meter

With the Wallbox Three Phase Power Meter, you can set up dynamic load management and utilise surplus energy from your solar system to charge your vehicle in a particularly energy- and cost-efficient way with a mix of solar and grid power (PV surplus charging). If you already have a Pulsar Pro, you can also purchase the Three Phase Power Meter later.

⚠ ATTENTION

Compatibility with a charging group

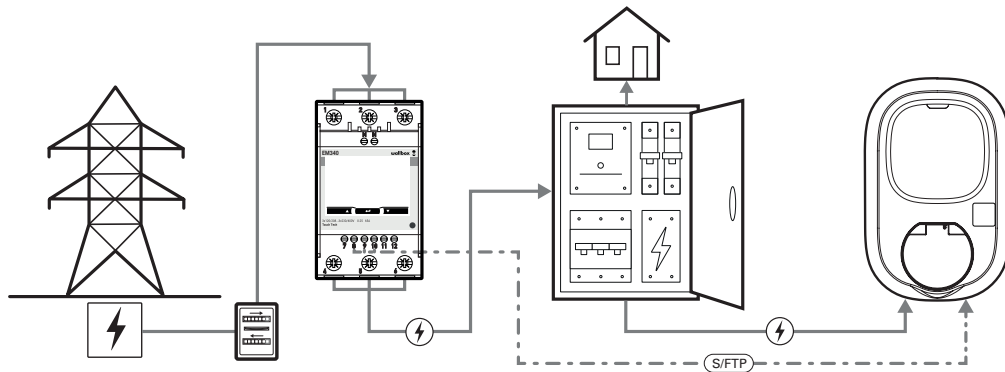
Please note that the Three Phase Power Meter and therefore PV surplus charging is not available in conjunction with a charging group.

NOTE

Modbus cabling between the Three Phase Power Meter and the charger

Shielded network cables (S/FTP, CAT 5e or higher) are recommended for wiring the Modbus interfaces of the Three Phase Power Meter and the charger:

- Use a twisted pair of wires and an additional wire to connect the contacts of the terminal block **PWBOOST** in the charger to the terminals of the Modbus port of the Three Phase Power Meter.
- Please note that the communication cable between the Three Phase Power Meter and the charger must not be longer than 500 metres. In addition, a total Modbus cable length of 1,200 metres must not be exceeded without an additional amplifier.

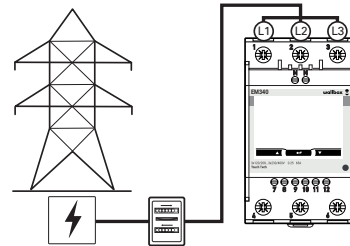


Connection diagram for the Three Phase Power Meter

Proceed as follows:

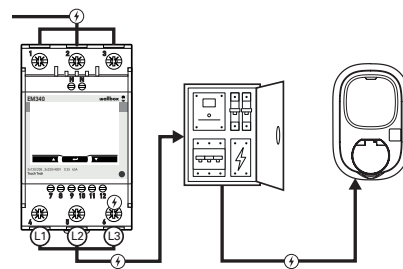
- 1 Connect the three phases of the house supply cable to the upper measurement inputs of the Three Phase Power Meter.

House supply cable	Three Phase Power Meter
Phase L1	→ Measuring input 1
Phase L2	→ Measuring input 2
Phase L3	→ Measuring input 3



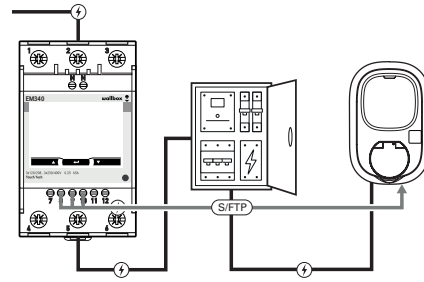
- 2 Connect the lower power outputs of the Three Phase Power Meter to the domestic power distribution box to which the charger and the house load are connected.

Three Phase Power Meter	Power distribution box / charger
Output 4	→ Phase L1
Output 5	→ Phase L2
Output 6	→ Phase L3



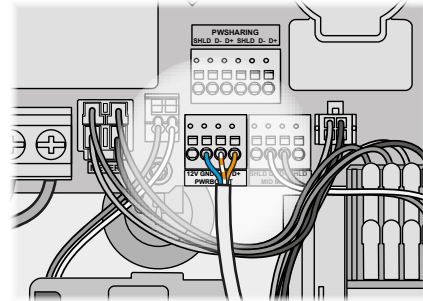
3 Run a single network cable (S/FTP, CAT 5e or higher) between the Three Phase Power Meter and the charger.

- Insert the network cable into the charger via the grommet on the underside of the housing.



4 Connect two conductors of a twisted pair of wires of the network cable (e.g. orange and orange-white) to the **D-** and **D+** terminals and another conductor to the **GND** terminal of the **PWBOOST** terminal block.

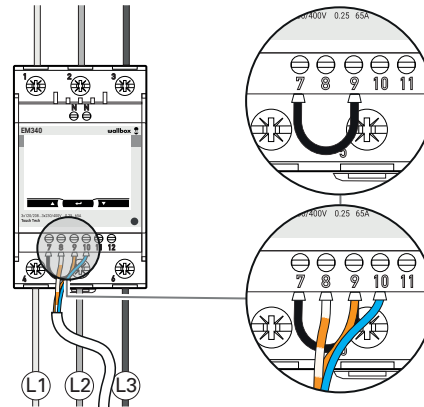
- Make a note of the colours and order of the three conductors.
- Use wire end ferrules for each conductor if necessary.



5 Switch to the Three Phase Power Meter.

- Connect terminals **7 (T)** and **9 (A-)** of the Modbus port via a cable bridge.
- Connect three conductors of the network cable to terminals **8 (B+)**, **9 (A-)** and **10 (GND)** of the Modbus port.

Wallbox Pulsar Pro		Meter Modbus port
Terminal 2 (GND)	→	Terminal 10 (GND)
Terminal 3 (D-)	↗	Terminal 7 (T)
Terminal 4 (D+)	↘	Terminal 9 (A-)
	→	Terminal 8 (B+)



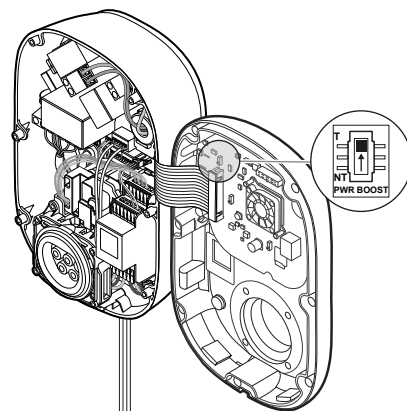
NOTE

Preconfiguration of the Three Phase Power Meter

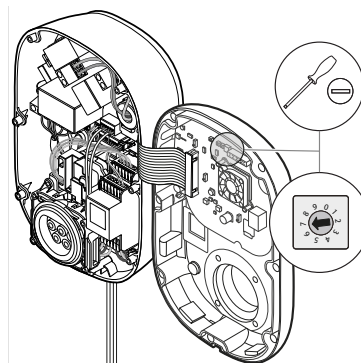
Please note that the Three Phase Power Meter is preconfigured at the factory and therefore no additional settings are required for this application.

6 Locate the **PWR BOOST** (Power Boost) switch directly above the ribbon socket on the circuit board in the charger cover.

- Move the switch to the upper position **T**.



- 7 Set the current selector on the circuit board to a suitable setting for the maximum current supplied by the mains.
- The settings for load management are made in the **Wallbox** app once installation is complete.



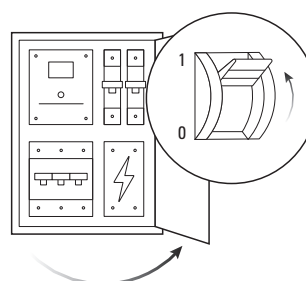
Position	0	1	2	3	4	5	6	7	8	9
Current (A)	R	6	10	13	16	20	25	32	R	R

⚠ ATTENTION

Reserved settings

Make sure that the selector does not point to **0, 8 or 9**; these settings are reserved.

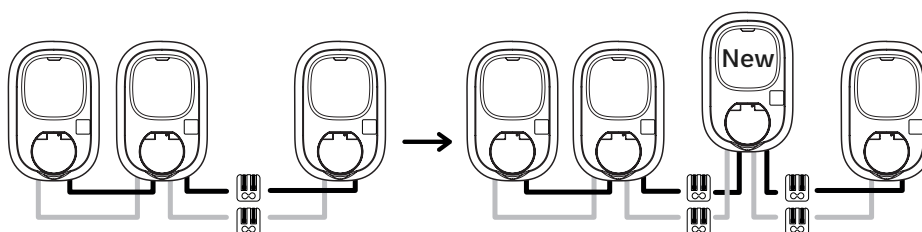
- 8 Switch on the back-up fuses in the domestic power distribution box.
- The charger will boot up and is then ready for operation.
 - Once you have registered your Wallbox in the **Wallbox** app, you can make the settings for solar charging and load management.



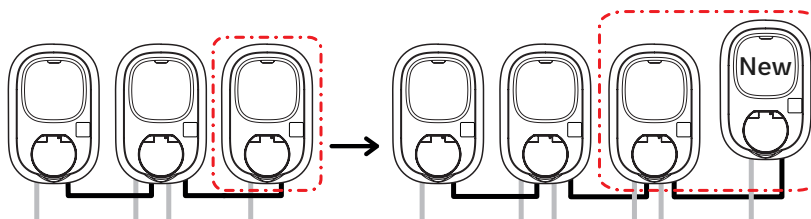
Adding chargers in the future

If you plan to add more chargers to the system in the future, there are two ways you can prepare the system to make it ready for Static and Dynamic Load Management (two or more chargers).

- Option 1:** Place a bus disconnector to allow future chargers to be inserted in the daisy chain as shown in the wiring scheme below.



- Option 2:** Extend the system by adding new chargers at the end of the bus.



⚠ ATTENTION

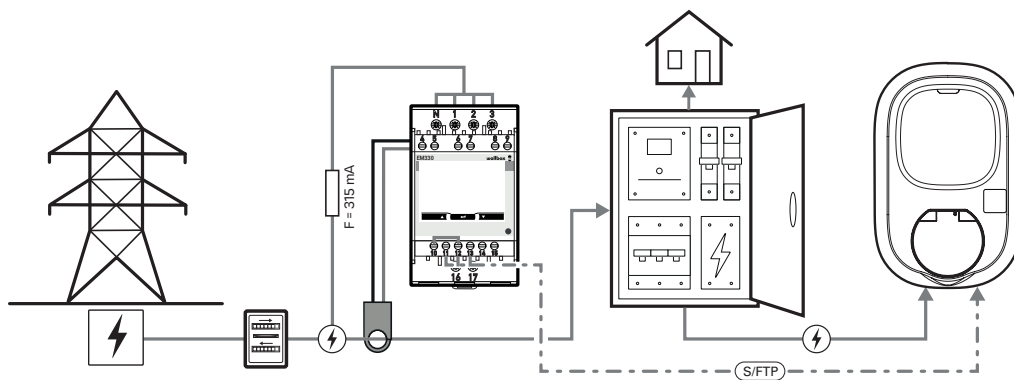
Requirements for adding new chargers

New chargers may be placed anywhere physically in relation to the existing chargers as long as you follow these rules:

- Maintain the logic of the existing daisy chain.
- Retain the cabling polarity and wiring diagrams as described in “Setting up and configuring a charging group” on page 19.

Electrical connection of the Three Phase Clamp Power Meter

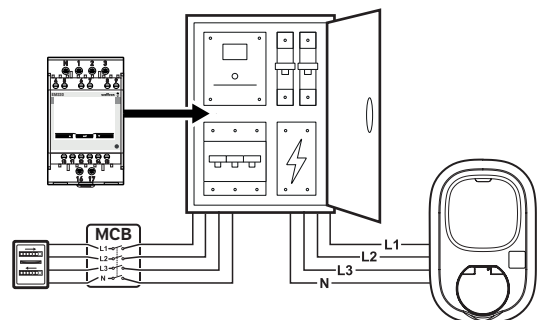
As an alternative to the Three Phase Power Meter, you can set up dynamic load management with the Three Phase Clamp Power Meter. This kit consists of an energy meter and the corresponding current transformers, which enable indirect measurements of up to 250 A per phase: It ensures maximum charging power while considering the upper current limit and protects the house connection from overload. A PV system can also be integrated via a solar charging mode.



Connection diagram for the Three Phase Clamp Power Meter

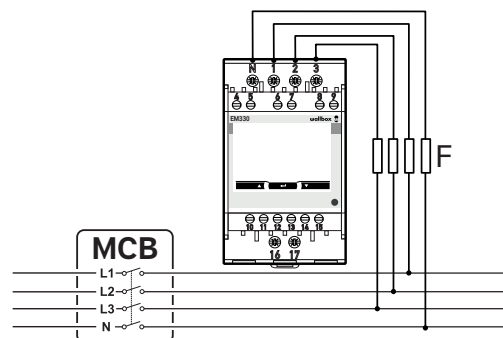
Proceed as follows:

- 1 Install the energy meter in the domestic power distribution box.



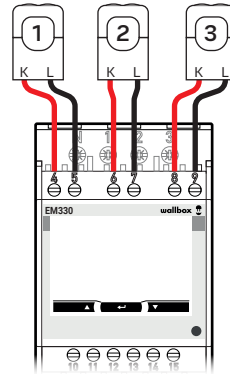
- 2 Locate the three phases (L1, L2 & L3) of the house supply cable and connect the energy meter to it via specially fused cable taps (F = 315 mA).

Supply cable		Connection terminal
Phase L1	→	1
Phase L2	→	2
Phase L3	→	3
N	→	N

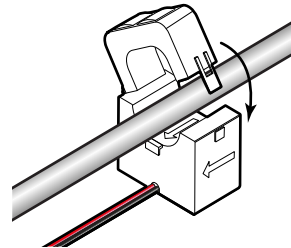


- 3 Connect the connection cables of the current transformers to the energy meter.

Current transformer	Cable colour	Meter connection terminal
1	red / K black / L	4 5
2	red / K black / L	6 7
3	red / K black / L	8 9

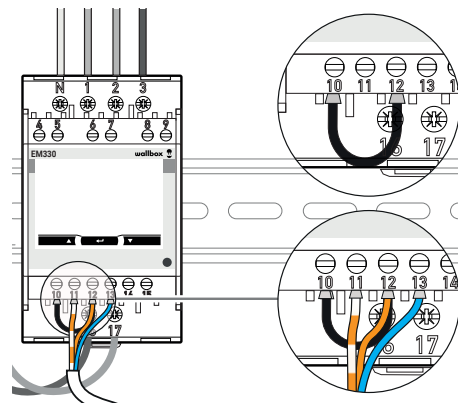


- 4 Open the cable type current transformer 1, place it around power line L1 and close the lock, which should click audibly into place.
- The direction of energy flow (= installation direction) is indicated by the arrow on the housing:
Grid → Consumer
 - Repeat the process for L2 and L3.

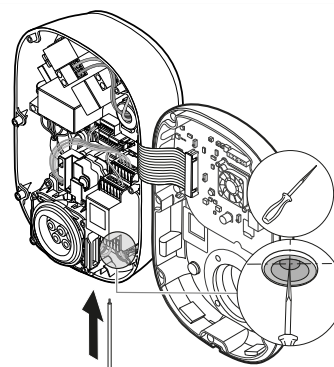


- 5 Connect a network cable to the Modbus terminals of the energy meter using wire end ferrules.
- Connect the terminals 10 (T) and 12 (A-) of the Modbus port via a cable bridge.
 - Connect three conductors of the network cable to terminals 11 (B+), 12 (A-) and 13 (GND) of the Modbus port.

Conductor colour (recommendation)	Meter connection terminal
orange-white	11 (B+)
orange	12 (A-)
blue	13 (GND)



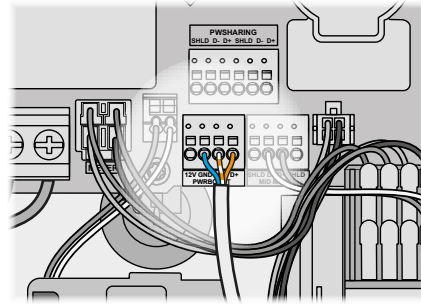
- 6 Switch to the charger and prepare it for connecting the network cable (see “Electrical connection of the Three Phase Power Meter” on page 21).
- Insert the network cable into the housing.



- 7 Connect the three conductors to the terminals of the terminal block **PWBOOST** in the charger.

Meter terminal	Conductor colour*	Charger terminal
11 (B+)	orange-white	D+
12 (A-)	orange	D-
13 (GND)	blue	GND

* Recommendation



Connect the installation to the power grid and set up load management via the Wallbox app.

Configuring your charger

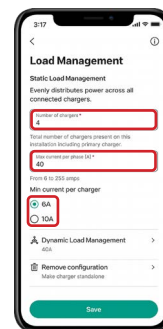
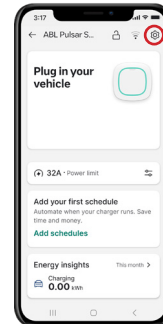
After you have registered one or several chargers, you can start with the configuration of your charger(s).

Setting up a charging group with static load management

A charging group can be set up with your Wallbox Pulsar Pro chargers. Without an external energy meter, the available power is distributed evenly across all chargers in the charging group via static load management.

Proceed as follows:

- 1 Connect your mobile device to the first charger via Bluetooth (internal switch **PWR SHR** in position **T**) and start the **Wallbox** app.
 - Tap on the gear icon in the top right-hand corner to open the **Configuration**.
- 2 Tap on **Configuration > Energy features > Load Management > Static Load Management**.
 - Enter the number of chargers in the charging group.
 - In the **Max. Current per phase** field, enter the maximum current value per phase that is available for the charging group.
 - Select the value for the minimum current (**6** or **10 A**) to be made available for each charger.



Once you have saved the entries, static load management is set up for the charging group.

! NOTE

Configuration within the charging group

If you call up the **Static Load Management** option for another charger in the charging group, the message **Secondary charger** is displayed: Changes can only be made in the configuration of the primary charger.

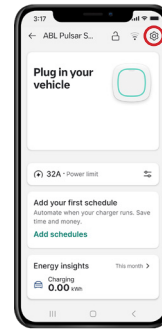
Configuration of a dynamic load management

In conjunction with the Three Phase Power Meter and the Three Phase Clamp Power Meter, dynamic load management can be set up, and the available charging power can be allocated according to demand. Dynamic load management is recommended for the following operating modes:

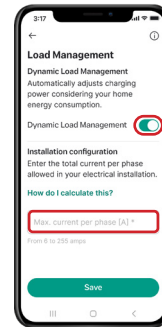
- Adaptation of the charging power of a single Pulsar Pro charger to the energy consumption in the household
- Distribution of the charging power within a charging group depending on the maximum available current

Proceed as follows:

- 1 Connect your mobile device to the first charger via Bluetooth (internal switch **PWR SHR** in position **T**) and start the **Wallbox** app.
 - Tap on the gear icon in the top right-hand corner to open the **Configuration**.



- 2 Tap **Configuration > Energy features > Load Management > Dynamic Load Management**.
 - Activate the **Dynamic Load Management** option.
 - In the **Installation configuration** field, enter the maximum current value per phase that is available for the domestic installation.



Once you have saved your input, dynamic load management is set up.



ATTENTION

Connection to the energy meter

If the message **No energy meter detected** is displayed, the charger cannot establish a connection to the Three Phase Power Meter or Three Phase Clamp Power Meter. In this case, check the correct wiring between the primary charger and the energy meter.

Setting up the Solar charging

With the Three Phase Power Meter, you can use the surplus energy from your solar system to charge your vehicle.



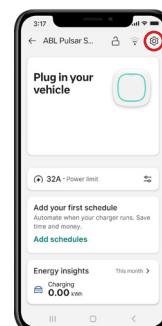
NOTE

Solar charging with a single charger

With the Three Phase Power Meter, you can configure PV surplus charging for a single charger. This option is not available for a charging group with several chargers, but the Three Phase Power Meter can then be used for dynamic load management.

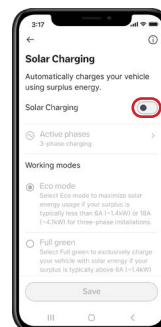
Proceed as follows:

- 1 Connect your mobile device to the charger via Bluetooth and start the **Wallbox** app.
 - Tap on the gear icon in the top right-hand corner to open the **Configuration**.



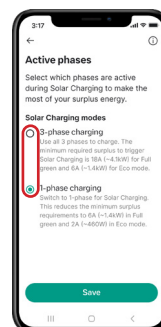
2 Tap on **Configuration > Energy features > Solar Charging**.

→ Activate the **Solar Charging** option.



3 Tap on the arrow next to the **Active phases** entry.

→ Select the option **3-phase charging** or **1-phase charging**.

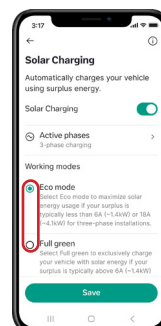


! NOTE

Phase selection for Solar charging

- If you select the **3-phase charging** option, the surplus must be either **6 A (Eco mode)** or **18 A (Full green)** in order to be able to use the energy from the PV system for charging. With the **1-phase charging** option, you can reduce the surplus required to trigger charging to **2 A (Eco mode)** or **6 A (Full green)**.
- Please note that you must disconnect the EV from the charger in order to switch back from 1-phase to 3-phase charging.

4 Finally, choose whether you want to charge your vehicle with an optimised mix of solar and grid power (**Eco mode**) or exclusively with solar power (**Full green**).



Once you have saved the entries, solar charging is set up for the charger.

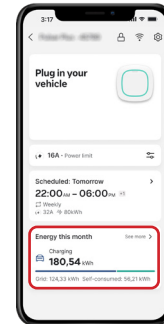
Setting up the automatic report via app for company reimbursement

With the integrated MID energy meter, you can record the amounts of energy of all charging processes in a MID-compliant manner and export them automatically for billing with your employer via the Wallbox app.

Proceed as follows:

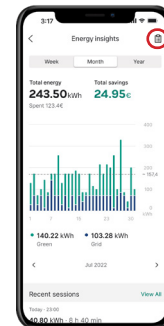
- 1 Connect your mobile device to the charger via Bluetooth and start the **Wallbox** app.

→ Tap on the **Energy (insights)** panel in the lower part to open the **Energy insights** screen.



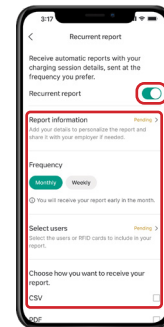
- 2 To start an export or setup a report, tap the **Report** icon on the top right of the screen.

→ Activate the **Recurrent report** option to open the screen with the recurrent report options.

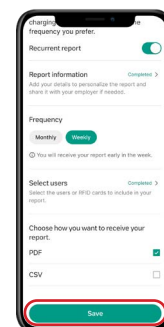


- 3 On this screen, enter all relevant information that should be included in the report.

- **Report Information:** Enter your personal details (name, email address, license plate) and employer information in this screen.
- **Frequency:** Select the interval at which you want to generate the report (**Weekly** or **Monthly**).
- **Select users:** Select the users or RFID cards you wish to include in your report.
- **Choose how you want to receive your report:** Choose between **CSV** (best for Excel/data processing) or **PDF** (better for viewing/printing).



- 4 After entering all the necessary information, scroll down the screen and tap **Save** to save the preferences for exporting the future reports.



! NOTE

Entering the correct electricity price

Ensure that your **Electricity price** (per kWh) is entered correctly in the **Report information** screen so that your **Total savings** and **Spent** data is accurate.

Troubleshooting

Once set up via the Wallbox app, the charging system is ready for use. If the system does not behave as expected, there may be an error. Errors are displayed in the app and can be resolved as follows.

Status text	Shown in	Description
<i>Installation configuration error. The entered number of chargers does not match the number detected in the installation.</i>	Settings	• Only on the Primary unit. The network has been successfully set up. Some Secondary units are not connected. • Verify that the setting Number of chargers in the Primary unit coincides with the number of chargers in the system. • Verify wiring.
<i>Static Load Management not configured</i>	Charger Screen	This is the initial status after powering on the set-up. • The unit is paired with the Primary unit, but it detects that it is pending to be configured. • The chargers will blink in red.
<i>Configuration required</i>	Settings	This is the initial status after powering on the set-up. • The unit is paired with the Primary unit, but it detects that it is pending to be configured. • The chargers will blink in red.
<i>Secondary charger. To modify Load Management configuration please go to the Primary charger.</i>	Settings	Secondary connected with the Primary. • The installation has been successful. • Use the Primary charger to adjust the settings.
<i>Secondary charger not paired with network</i>	Settings	The secondary is not successfully connected with the primary on the Static Load Management network. • This state is reached after 30 seconds without successful communication. • In this state, the charger will have a fast-blinking Halo. Remember that the secondary can only charge at 6 A in this state.
<i>Waiting for energy. Load Management will resume charging</i>	Charger Screen	There is not enough power available for this charger. • If the power has already been reduced to the minimum, the newly plugged cars will enter this state. • Once the system has enough power available (e.g. a car has been fully charged), it will start charging. The charger will be slowly blinking.

Appendix

Technical specifications

Manufacturer number	PPR3-W-2-4-Y-002
Manufacturer number (DACH)	100000827
Type	Wallbox Pulsar Pro
Rated voltage	230 / 400 V
Grid frequency	50 / 60 Hz
Current	32 A, configurable from 6 A to rated current
Maximum output	1 × 22 kW (3 ph), 1 × 7.4 kW (1 ph)
Overcurrent and short circuit protection	RCD type A required on site (in accordance with local regulations)
Charging connection	Lockable type 2 charging socket with shutter
Phase system	3-phase (1-phase connection possible)
Terminal blocks	Supply cable with cable cross-section up to a maximum of 13 mm ² or cable diameter ≤ 22 mm
Residual Current Devices	RCD type A required on site (in accordance with local regulations)
DC fault current detection	RDC-DD according to IEC 62955 (6 mA DC)
Overcurrent protection	Integrated into firmware, disconnection above 115% after 3 attempts of 10 seconds each with 30 second breaks in between
Load switching	Relay, 4-pole, 40 A
Rated insulation voltage	400 V
Rated impulse withstand voltage	4000 V
Electromagnetic environment	Class A + Class B
Welding protection	No charging possible when the relay is welded. In addition, it's possible to disconnect the EVSE from the electrical grid in case of welding by using an optional external shunt managed by the EVSE
Temperature monitoring	Internal, charging current reduction or shut down
Optional ventilation function of the vehicle	Not supported
Access control	Smartphone app & portal, RFID, NFC (HW ready)
Backend communication	Wi-Fi, 4G, Ethernet
Communication	Wi-Fi, 4G, Ethernet, Bluetooth
Supported protocols for external systems	OCPP 1.6
EV supply equipment connection	AEVCS is permanently connected to the AC mains supply network
Earthing system	TT, TN, IT
Operating temperature	-30°C to 50°C (Derating may apply.)
Storage temperature	-40°C to 70°C
Relative humidity	5 to 95%, no condensation
Installation location	Indoor and outdoor use
Mounting method	Stationary equipment is mounted on the wall, floor mounting with appropriate Wallbox accessories
Intended for use	Equipment intended for use by ordinary persons

Location accesses	Equipment for locations with non-restricted access and restricted access
Class of protection	I
Degree of protection (housing)	IP55
Overvoltage category	III
Pollution degree	3
Impact strength	IK10
Maximum elevation	≤ 2,000 m AMSL
Dimensions (H×W×D)	313 × 204.3 × 142.5 mm
Weight per charger	Approx. 2.5 kg

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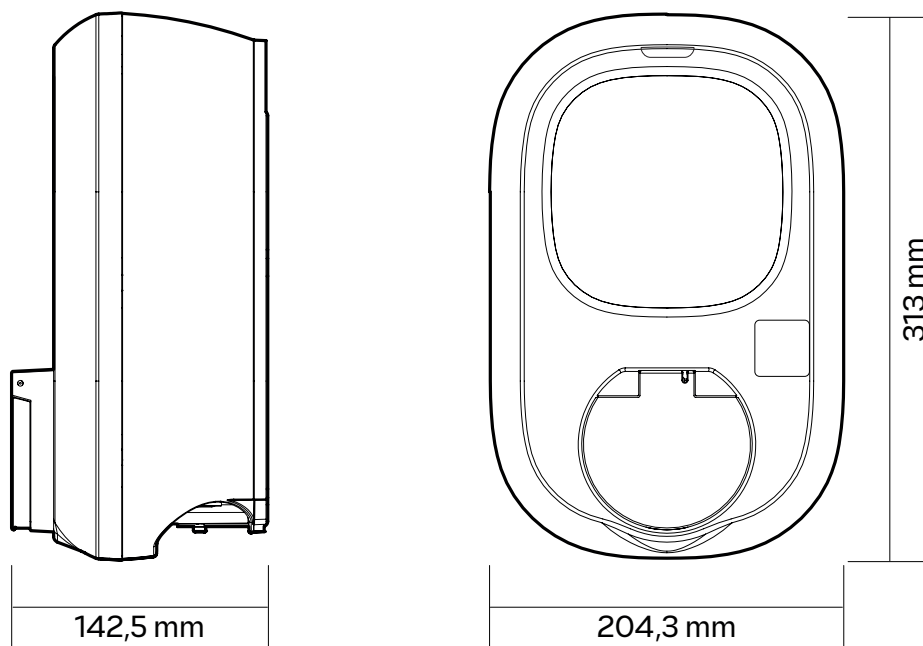
Do not under any circumstances make alterations to the product. Any violation of this instruction constitutes a safety risk, fundamentally breaches the warranty terms and conditions and may void the warranty with immediate effect.

Disposal notice



In accordance with the Directive 2012/19/EC, at the end of its useful life, the product should not be disposed of as urban waste. It should be taken to a collection centre or to a distributor that provides disposal of special and differentiated waste.

Dimensioned drawing





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