



EMS Installation Guide

ENGLISH VERSION



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ENERGY MANAGEMENT SOLUTIONS

Purpose and Scope of the Document

The purpose of this document is to outline the instructions for the installation of the Energy Management Solutions.

To install an MID meter, refer to the relevant **Installation Guide**.

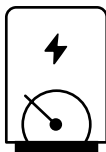
INSTALLATION

Getting started

Important Notes

- A.** Install the charger following the instructions listed in the chargers' **Installation Guide**. Refer to the user guide on the **Wallbox Academy** page for more information.
- B.** Only energy meters provided by Wallbox are compatible with Wallbox chargers.
- C.** Installations should be performed only by qualified personnel in accordance with applicable local regulations.
- D.** Update the Wallbox charger with the latest software version before installing the energy meter. Refer to the instructions for updating the charger on the **Wallbox Academy** page for more information.
- E.** Ensure that the charger is powered off and its cover is removed before connecting the energy meter. Close the charger properly after the installation.
- F.** After installing the charger, connect the energy meter before closing your charger. In case the energy meter is to be connected to a previously installed charger, open it to connect the energy meter.

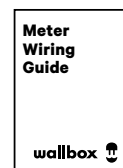
Inside the Package



Energy Meter



Grommet



Meter Wiring Guide

INSTALLATION

Getting started

General Characteristics (Pulsar Plus, Commander 2, Copper SB and Quasar)

	Power Boost	Eco-Smart	V2H	Power Sharing	Dynamic Power Sharing
Primary Chargers	1	1	1	1	1
Secondary Chargers	-	-	-	1-24	1-24
Communication protocol between chargers	-	-	-	CAN	CAN
Communication protocol between the Primary Charger and the Energy Meter	Modbus RTU	Modbus RTU	Modbus RTU	-	Modbus RTU
Maximum total length of wiring CAN network	-	-	-	250m	250m
Maximum length between the wiring of the Primary charger and the Energy Meter	500m	500m	500m	-	500m
Terminating Chargers	1	1	1	2	2
Maximum Phase Current configurable	Minimum between main switch rated (MCB) and the contract tariff	Minimum between main switch rated (MCB) and the contract tariff	Minimum between main switch rated (MCB) and the contract tariff	Minimum between main switch rated (MCB) and the contract tariff	Minimum between main switch rated (MCB) and the contract tariff
Configurable installation maximum current	Installation main switch rated current (MCB)	Installation main switch rated current (MCB)	Installation main switch rated current (MCB)	Installation main switch rated current (MCB)	Installation main switch rated current (MCB)
myWallbox	Super admin or admin account and basic subscription	Super admin or admin account and basic subscription	Super admin or admin account and basic subscription	Super admin or admin account and basic subscription	Super admin or admin account and standard subscription

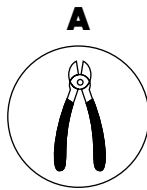
Compatibility Table

Meters	Power Boost	Eco-Smart	V2H	Dynamic Power Sharing
EM340	✓	✓	✓	✓
EM112	✓	✓	✓	✓
SPM1-100-AC	✓	✗	✗	✓
EM330 CTA 5X 250 A 5A	✓	✓	✓	✓
EM330 CTA 6X 400 A 5A	✓	✓	✓	✓
EM330 CTD-6S 600 5A	✓	✓	✓	✓
N1CT	✓	✓	✓	✓
PRO2 MOD	✓	✓	✓	✓
PRO380 MOD	✓	✓	✓	✓

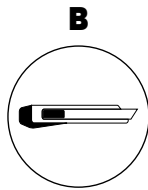
INSTALLATION WITH PULSAR PLUS

Power Boost and Eco-Smart

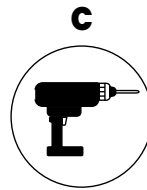
Tools



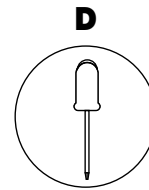
Cutting Pliers



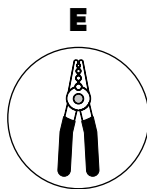
Utility Knife



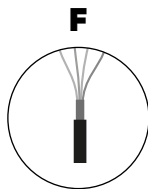
Drilling machine
M12 and hole saw
25mm



Flat Screwdriver
6mm



Wire
Strippers



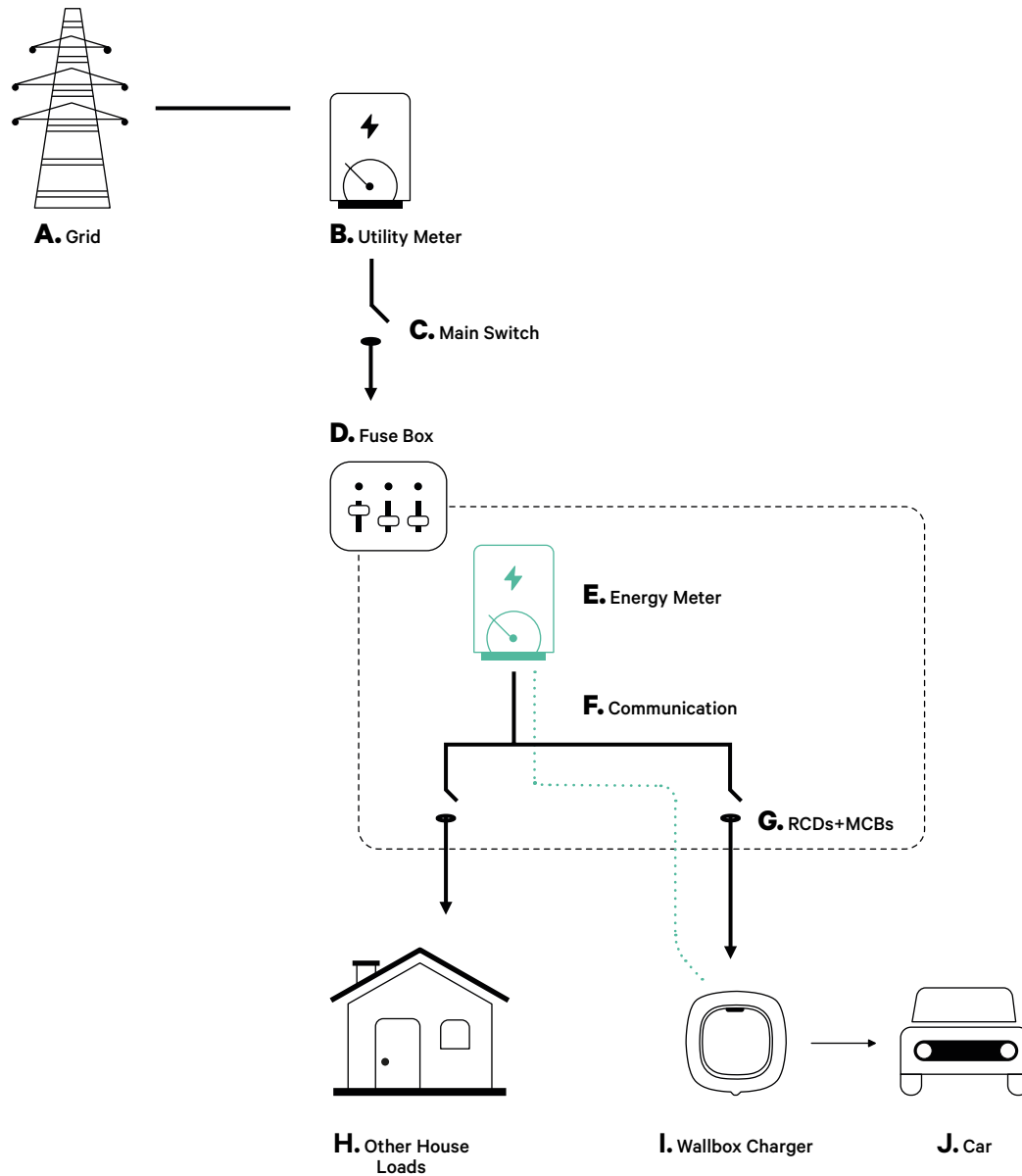
Connecting cable between
charger and meter
(STP Class 5E
500m Max Length)

Refer to the **Pulsar Plus Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH PULSAR PLUS

Power Boost and Eco-Smart

Place the energy meter after the mains supply and before the fuse box.



INSTALLATION WITH PULSAR PLUS

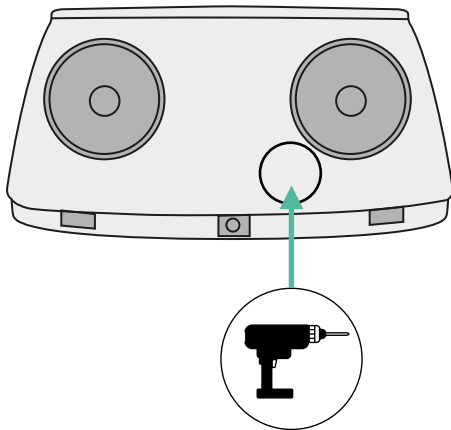
Power Boost and Eco-Smart

Before Installation

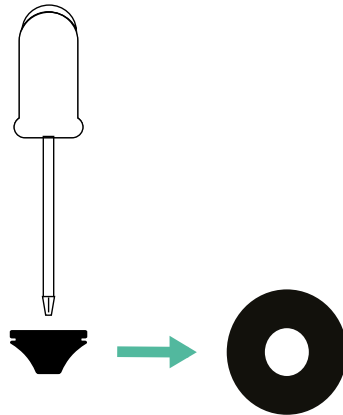
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

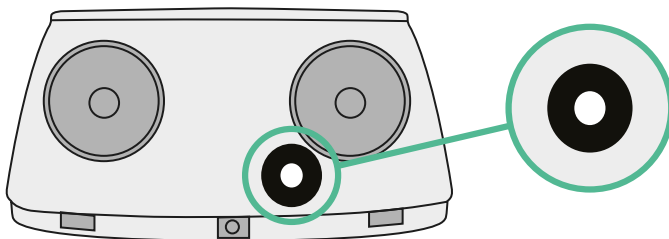
- 1.** Make a hole at the bottom of the charger using a M12 drill.



- 2.** With a flat screwdriver, make an incision in the grommet included in the meters package.



- 3.** Insert the **grommet** in the bottom hole of the charger.



INSTALLATION WITH PULSAR PLUS

Power Boost and Eco-Smart

Pulsar Plus Installation Guide

Install the charger following the instructions in the **Pulsar Plus Installation Guide**.

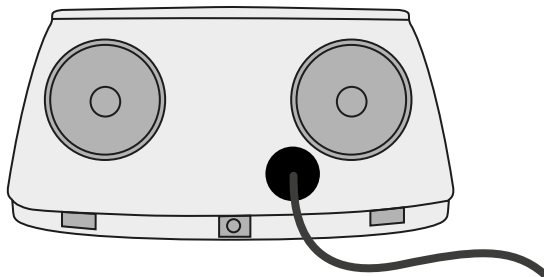


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

- 1.** Keep the power turned off during the installation.
- 2.** Insert the communication wire through the grommet.



- 3.** Install the meter following the instructions in the Meter Wiring Guide included in the package.
- 4.** Wire the meter and the charger by following the relevant scheme below based on the model of your meter.



Important

It is mandatory to use an STP class 5E cable. Employ only 1 wire of each twisted pair and keep in mind that the communication wiring must not be more than 500m long.

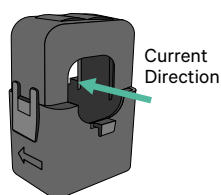
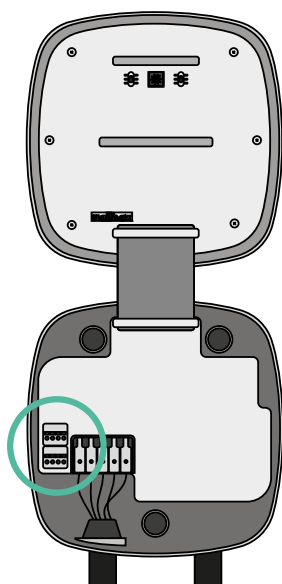


Important

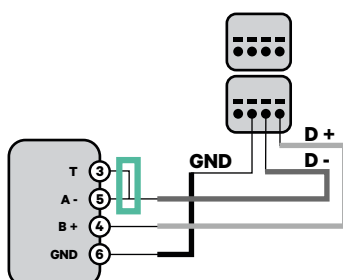
Insert only one cable for each grommet.

INSTALLATION WITH PULSAR PLUS

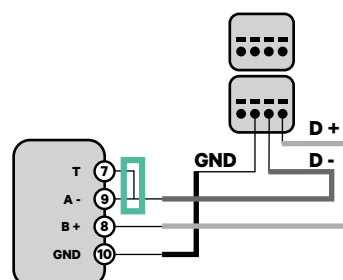
Power Boost and Eco-Smart



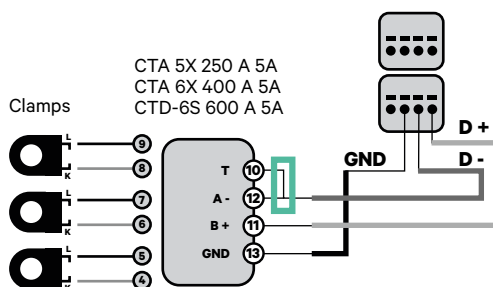
EM 112



EM 340

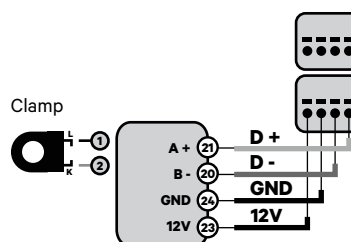


EM 330

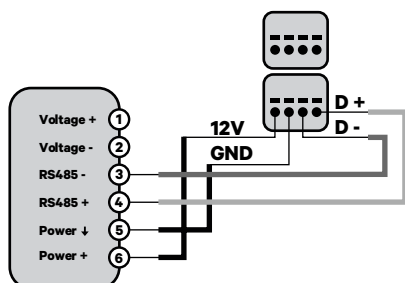


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

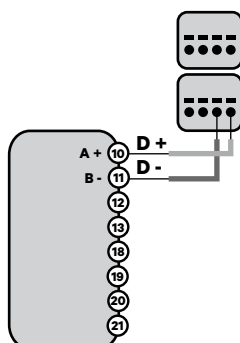
N1 CT



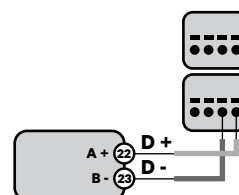
SPM1-100-AC



Pro MOD2



Pro 380 MOD



Important

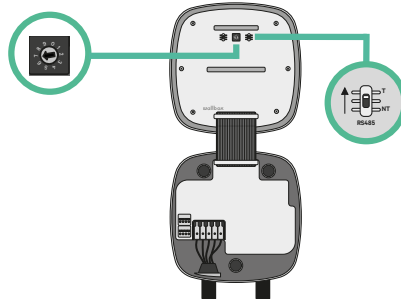
Remember to check the Compatibility Table of each meter.

INSTALLATION WITH PULSAR PLUS

Power Boost and Eco-Smart

Terminating resistance activation and current selector configuration

1. Put the RS485 switch into position T.
2. Put the rotary switch into a position between 1 and 7, depending on the maximum current that can be supplied from the charging network.



3. See the matrix below. This value must be the lower out of the main switch rated current MCB (not the RCD) and the contracted tariff.

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

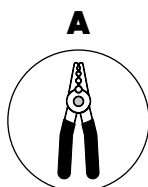
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubt, contact Wallbox Service.

4. Close the cover of the charger following the instructions in the charger's **Installation Guide**.

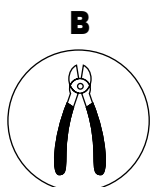
INSTALLATION WITH PULSAR PLUS

Power Sharing

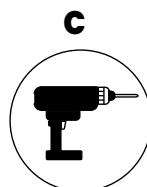
Tools



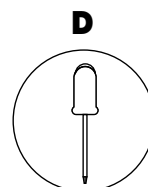
Wire Strippers



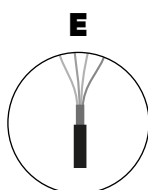
Cutting Pliers



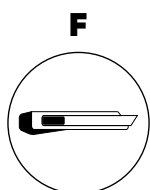
Drilling machine
M12 and hole saw
25mm



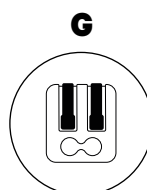
Flat Screwdriver



Connecting cable between
charger and charger
(UTP CAT 5E 250m
Max. Length)



Cutter



Two pole lever
connectors
(for small
communication
wires)

Refer to the **Pulsar Plus Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH PULSAR PLUS

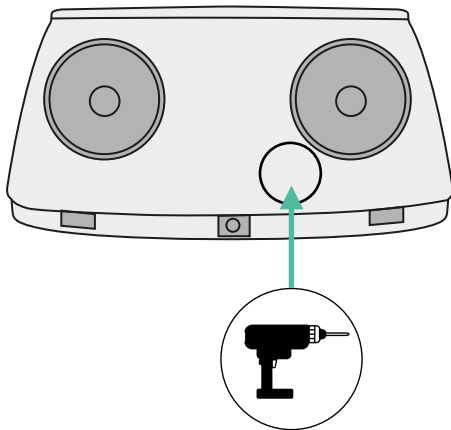
Power Sharing

Before Installation

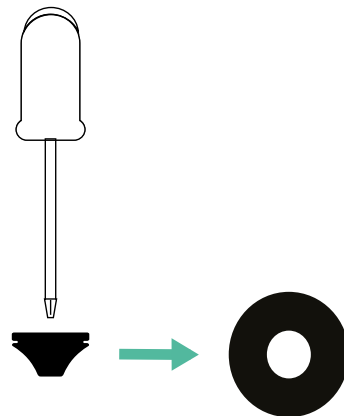
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

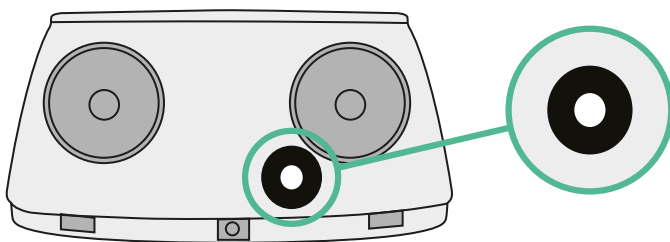
1. Make a hole at the bottom of the charger using a M12 drill.



2. With a flat screwdriver, make an incision in the grommet included in the meter's package.



3. Insert the **grommet** in the bottom hole of the charger.



Pulsar Plus Installation

Install the charger following the instructions in the **Pulsar Plus Installation Guide**.



Important

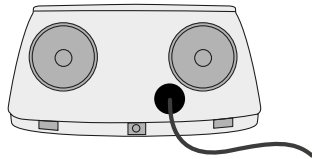
Ensure not to close the cover of the charger.

INSTALLATION WITH PULSAR PLUS

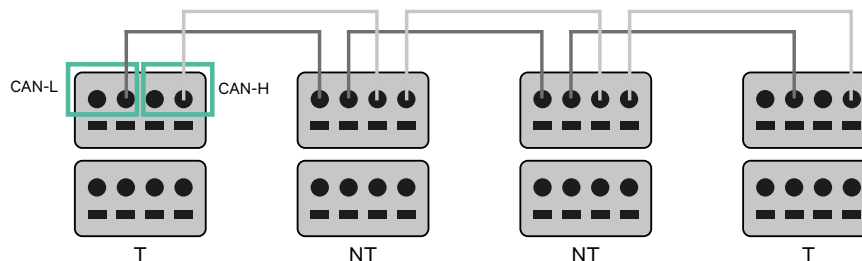
Power Sharing

Wiring the system

1. Ensure that the power is turned off during the installation.
2. Insert the communication wire (UTP 5E cable) through the grommet.



3. Check the position of CAN - L and CAN - H indicated above the connector.
Remember: the sequence in the connector can be different depending on each product.
4. Once located the connector, start cabling the primary charger (the first of the chain). Use a UTP 5E cable (a pair), then, insert one of the cables in CAN-L and the other in CAN-H. After, connect the other chargers of the chain following the scheme below. As you may notice, all the chargers have CAN-L and a CAN-H inputs and outputs, except for the first and the last ones.



Important

- Make sure to connect each CAN-L to the respective CAN-L connector of all the chargers. Do the same for CAN-H.
- Power sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

	CAN-L	CAN-H
CAN-L	✓	×
CAN-H	×	✓

Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

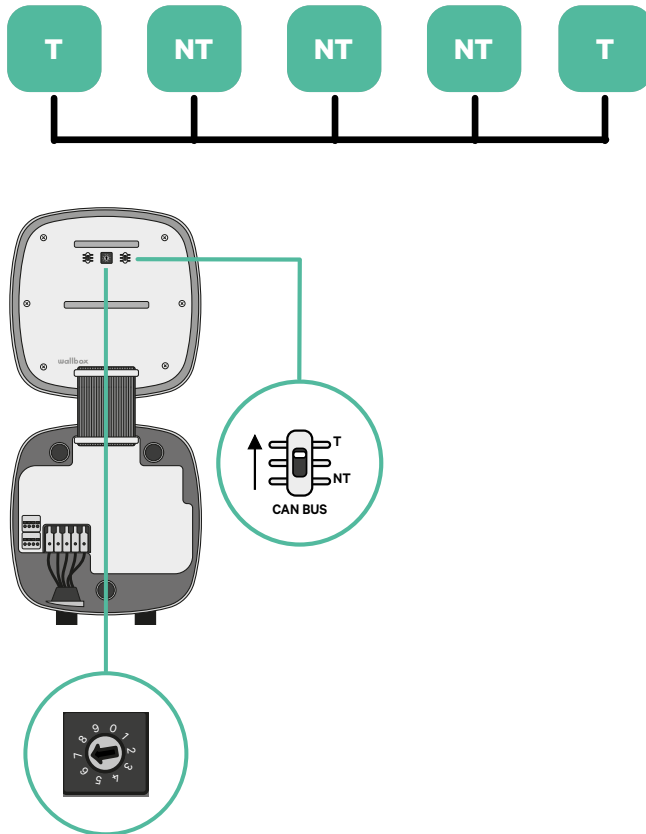
Refer to the **Installation Guide** for more information.

INSTALLATION WITH PULSAR PLUS

Power Sharing

Terminating settings

1. Once the cabling is completed, you need to activate the termination resistors. The first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



INSTALLATION WITH PULSAR PLUS

Power Sharing

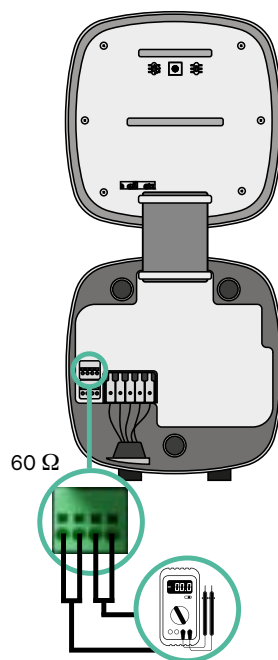
2. Once the termination resistors are set up, place the current selector of each charger following the information. The first charger of the chain is the primary charger, the others are secondary.

The **primary charger** will be set on position 8 or 9.

The **secondary chargers** will be set on position 0.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	*PS	6	10	13	16	20	25	32	*PS	*PS

3. To ensure a proper set-up the measured **resistance between CAN-H and CAN-L must be near to 60 Ohms**. If it differs from that, recheck the proper wiring and the T/NT configuration.



4. Close the cover of your charger by following the instructions in the respective **Installation Guide**.

INSTALLATION WITH PULSAR PLUS

Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Pulsar Plus charger.
2. Set the terminating resistance into NT, make the communication wiring as explained above and then close the charger.



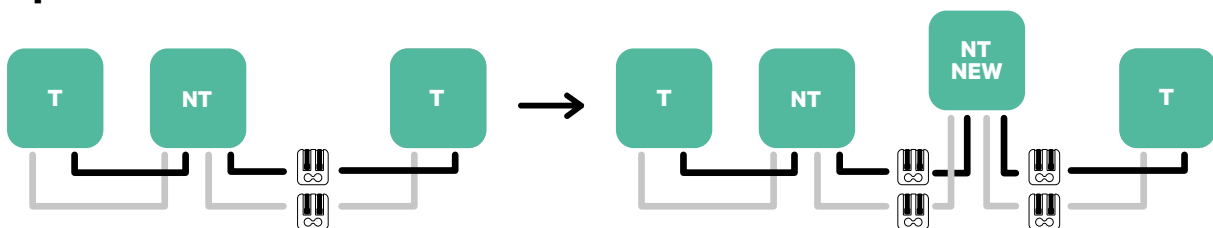
Important

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

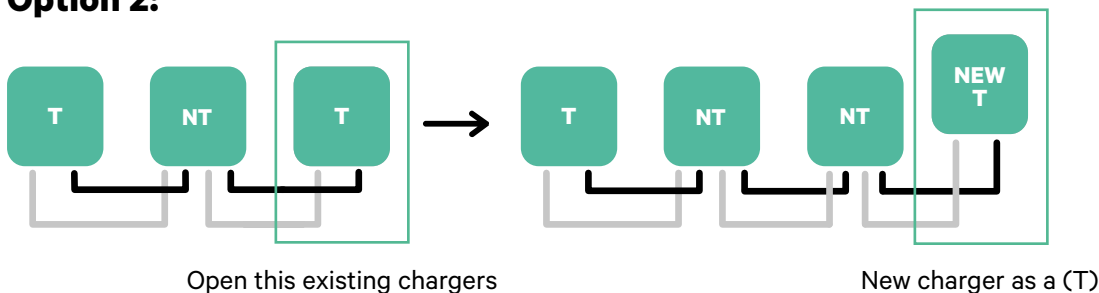
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



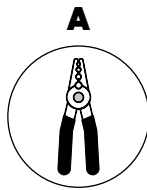
Option 2:



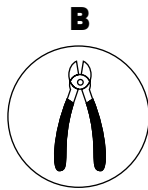
INSTALLATION WITH PULSAR PLUS

Dynamic Power Sharing

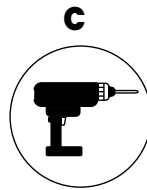
Tools



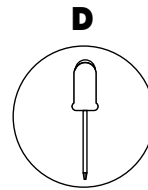
Wire Strippers



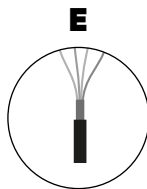
Cutting Pliers



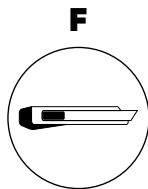
Drilling machine
M12 and hole saw
25mm



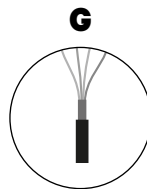
Flat Screwdriver



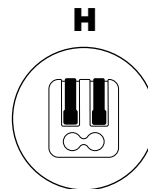
Connecting cable between
meter and charger
(STP Class 5E
500m Max Length)



Cutter



Connecting cable between
charger and charger
(UTP CAT 5E
250m Max Length)



Two pole lever
connectors
(for small
communication
wires)

Refer to the **Pulsar Plus Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH PULSAR PLUS

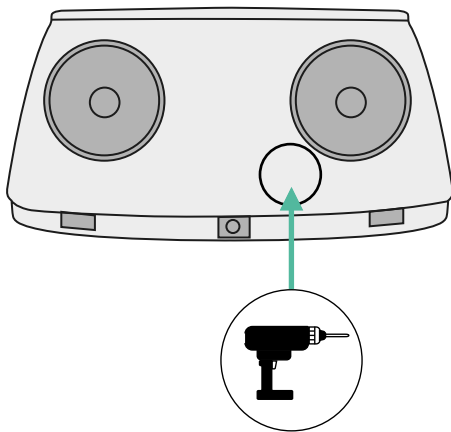
Dynamic Power Sharing

Before Installation

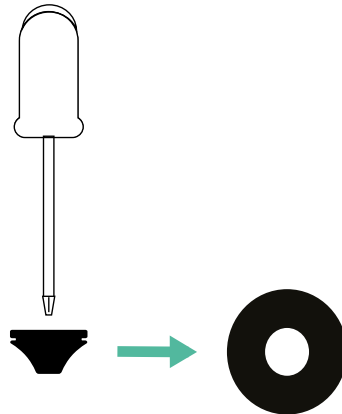
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

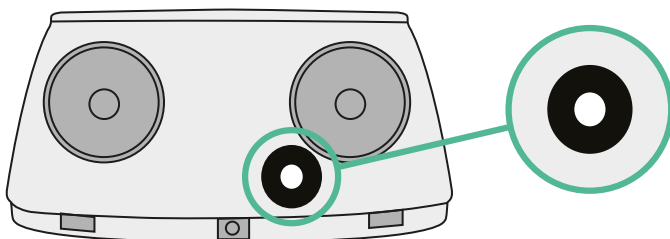
- 1.** Make a hole at the bottom of the charger using a M12 drill.



- 2.** With a flat screwdriver, make an incision in the grommet included in the meters package.



- 3.** Insert the **grommet** in the bottom hole of the charger.



INSTALLATION WITH PULSAR PLUS

Dynamic Power Sharing

Pulsar Plus Installation Guide

Install the charger following the instructions in the **Pulsar Plus Installation Guide**.

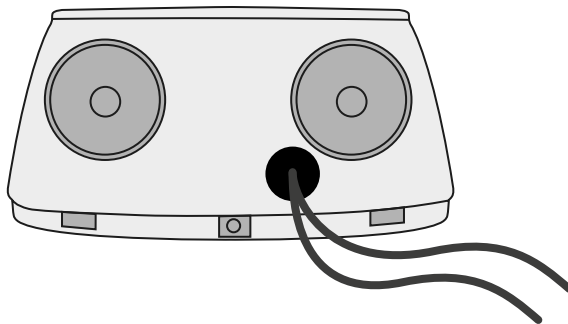


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

- 1.** Keep the power turned off during the installation.
- 2.** Insert through the grommet the two communication wires, one for meter communication and the other one for communication between chargers.



- 3.** Install the meter following the instructions in the Meter Wiring Guide included in the package.
- 4.** Wire the meter and the charger by following the relevant scheme below based on the model of your meter.

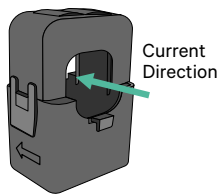
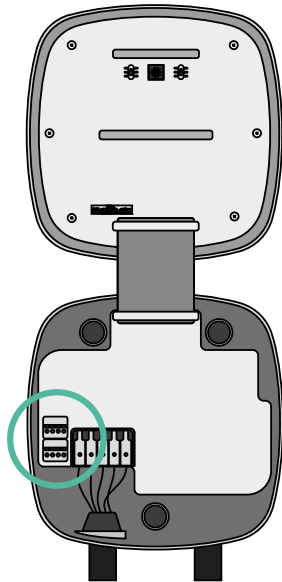


Important

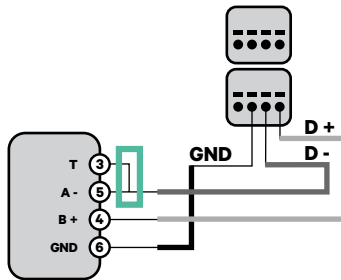
It is mandatory to use an STP class 5E cable. Employ only 1 wire of each twisted pair and keep in mind that the communication wiring must not be more than 500m long.

INSTALLATION WITH PULSAR PLUS

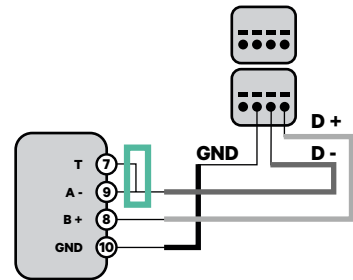
Dynamic Power Sharing



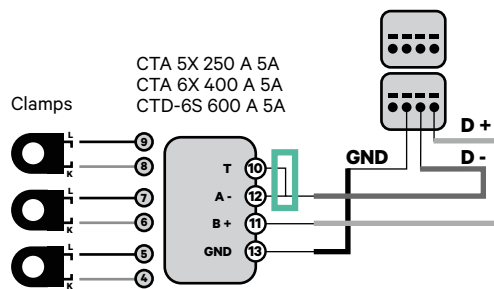
EM 112



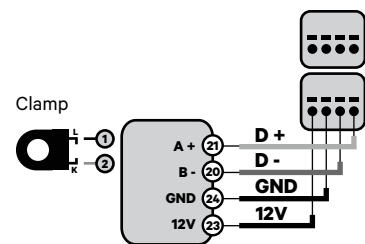
EM 340



EM 330

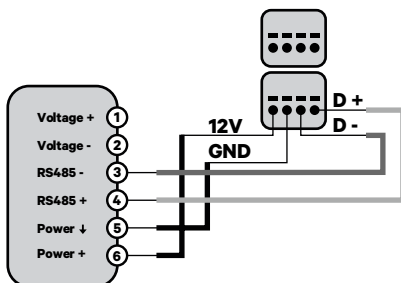


N1 CT

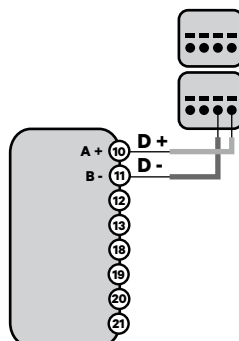


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

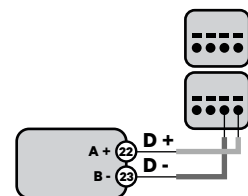
SPM1-100-AC



Pro MOD2



Pro 380 MOD



Important

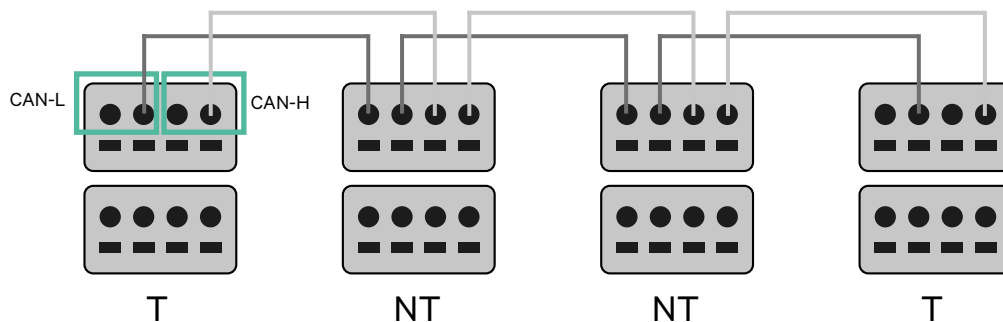
Remember to check the Compatibility Table of each meter.

INSTALLATION WITH PULSAR PLUS

Dynamic Power Sharing

Wiring the system

1. Ensure that the power is turned off during the installation.
2. Check the position of CAN - L and CAN - H indicated above the connector.
Remember: the sequence in the connector can be different depending on each product.
3. Once located the connector, start cabling the primary charger (the first of the chain). Use a UTP 5E cable (a pair), then, insert one of the cables in CAN-L and the other in CAN-H. After, connect the other chargers of the chain following the scheme below. As you may notice, all the chargers have CAN-L and a CAN-H inputs and outputs, except for the first and the last ones.



Important

- Make sure to connect each CAN-L to the respective CAN-L connector of all the chargers. Do the same for CAN-H.
- Power sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

	CAN-L	CAN-H
CAN-L	✓	×
CAN-H	×	✓

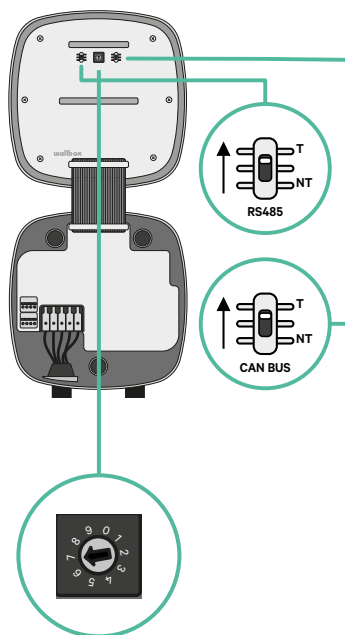
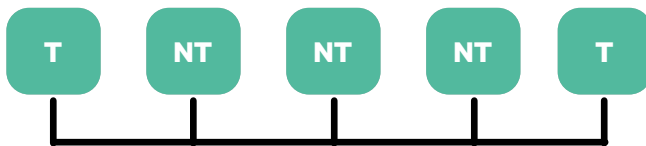
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

INSTALLATION WITH PULSAR PLUS

Dynamic Power Sharing

Terminating settings

1. Once the cabling is complete, you need to activate the terminating resistors. First set up RS485 into T only for the charger that is connected into meter. Then set up the CAN BUS, the first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



INSTALLATION WITH PULSAR PLUS

Dynamic Power Sharing

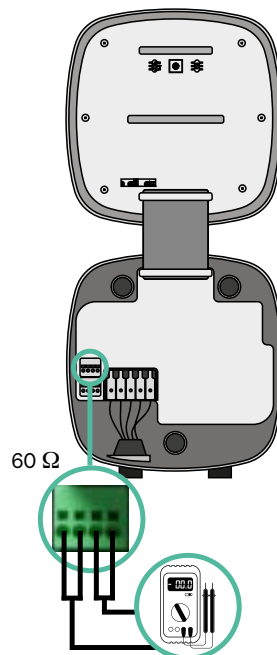
2. Once the termination resistors are set up, place the current selector of each charger following the information. The first charger of the chain is the primary charger, the others are secondary.

The **primary charger** will be set on position 8 or 9.

The **secondary chargers** will be set on position 0.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	*PS	6	10	13	16	20	25	32	*PS	*PS

3. To ensure a proper set-up the measured **resistance between CAN-H and CAN-L must be near to 60 Ohms**. If it differs from that, recheck the proper wiring and the T/NT configuration.



4. Close the cover of your charger by following the instructions in the respective **Installation Guide**.

INSTALLATION WITH PULSAR PLUS

Dynamic Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Dynamic Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Pulsar Plus charger.
2. Set the terminating resistance into NT, make the communication wiring as explained above and then close the charger.



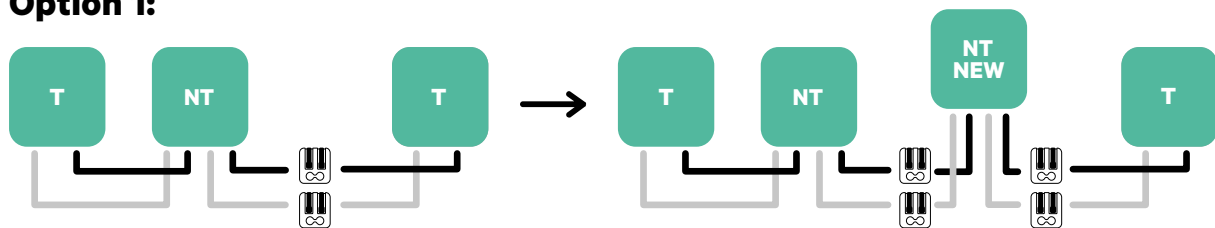
Important

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

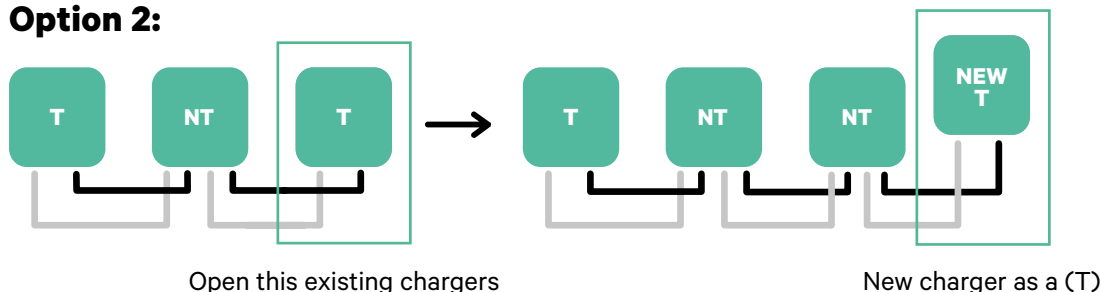
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



Option 2:

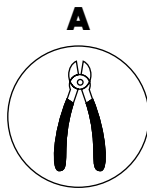


Once you finish the extension of the existing installation, continue with steps on the next page for setting up the chargers.

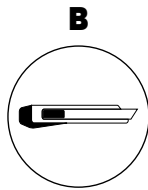
INSTALLATION WITH COMMANDER 2

Power Boost and Eco-Smart

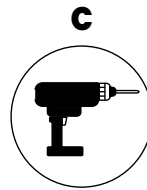
Tools



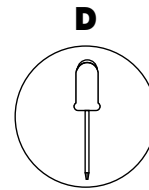
Cutting Pliers



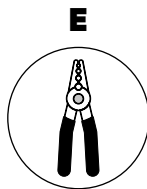
Utility Knife



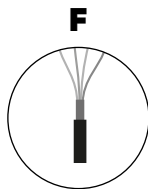
Drilling machine
M12 and hole saw
25mm



Flat Screwdriver
6mm



Wire
Strippers



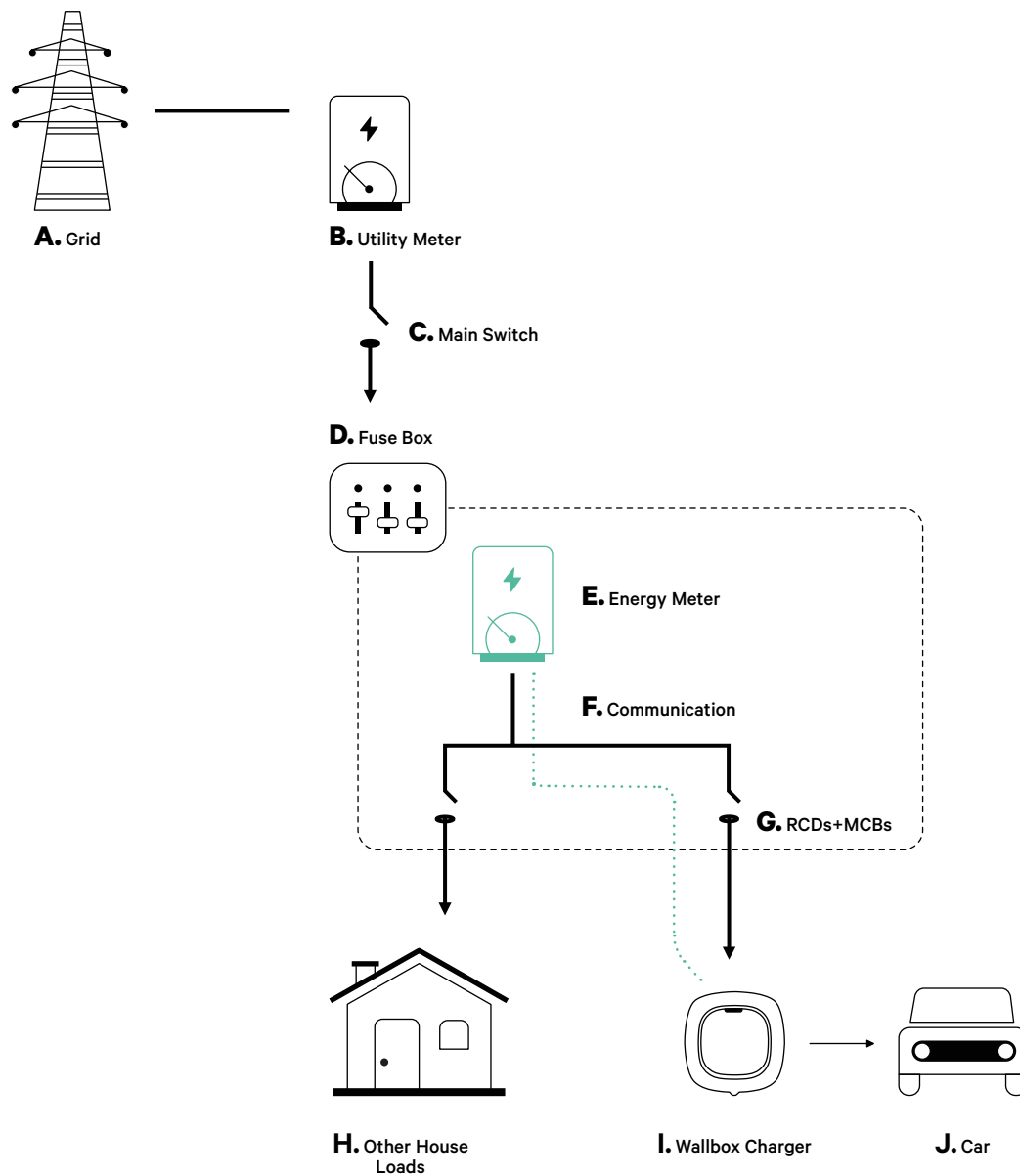
Connecting cable between
charger and meter
(STP Class 5E
500m Max Length)

Refer to the **Commander 2 Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH COMMANDER 2

Power Boost and Eco-Smart

Place the energy meter after the mains supply and before the fuse box.



INSTALLATION WITH COMMANDER 2

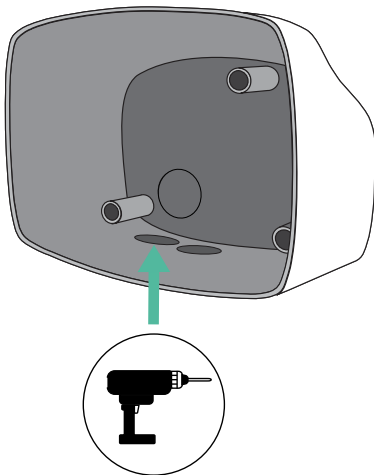
Power Boost and Eco-Smart

Before Installation

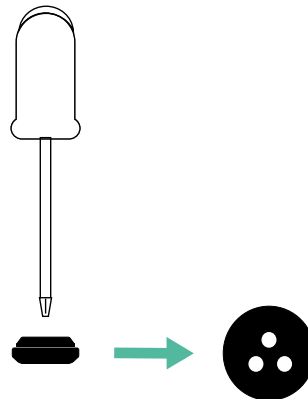
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

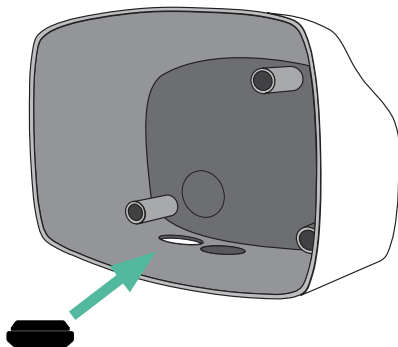
- 1.** Remove the plastic knock-out at the bottom of the charger using a 25mm drill bit hole saw drill.



- 2.** Using a flat screwdriver, make an incision in the 3-exit grommet. Remember, that you need to use only one hole of the 3-exit grommet by each communication line.



- 3.** Insert the **grommet** in the hole at the bottom of the charger.



INSTALLATION WITH COMMANDER 2

Power Boost and Eco-Smart

Commander 2 Installation

Install the device following the instructions in the **Commander 2 Installation Guide**.

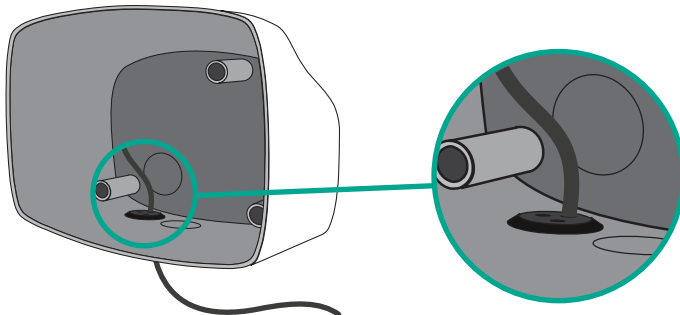


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

1. Keep the power turned off during the installation.
2. Insert the communication wire through the grommet.



3. Install the meter following the instructions in the Meter Wiring Guide included in the package.
4. Wire the meter and the charger by following the relevant scheme below based on the model of your meter.



Important

It is mandatory to use an STP class 5E cable. Employ only 1 wire of each twisted pair and keep in mind that the communication wiring must not be more than 500m long.

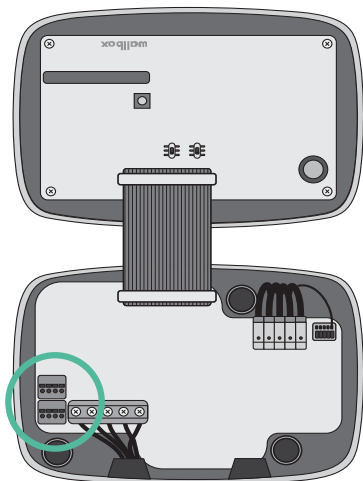


Important

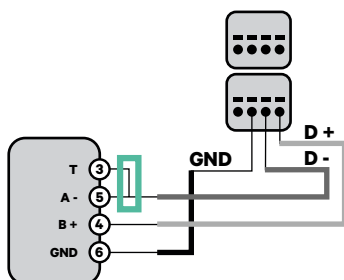
Insert only one cable for each grommet.

INSTALLATION WITH COMMANDER 2

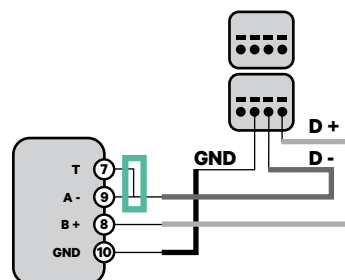
Power Boost and Eco-Smart



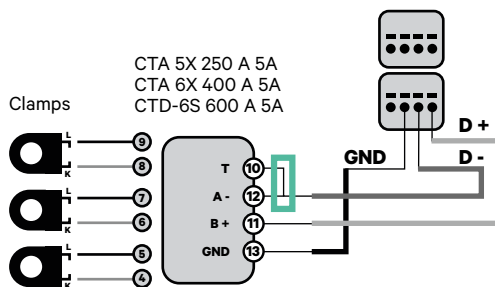
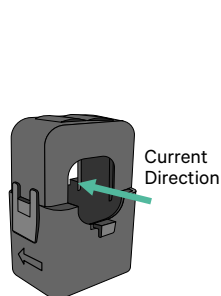
EM 112



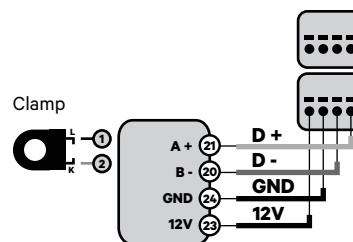
EM 340



EM 330

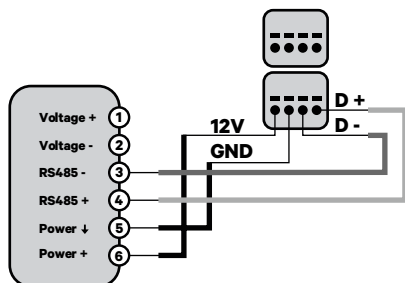


N1 CT

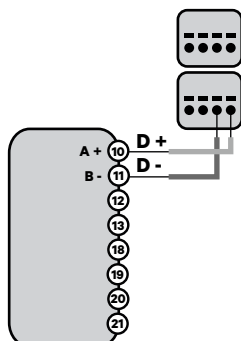


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

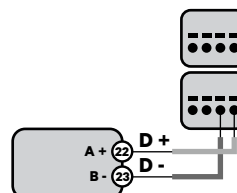
SPM1-100-AC



Pro MOD2



Pro 380 MOD



Important

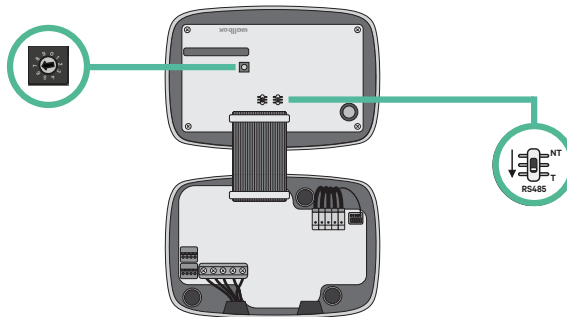
Remember to check the Compatibility Table of each meter.

INSTALLATION WITH COMMANDER 2

Power Boost and Eco-Smart

Terminating resistance activation and current selector configuration

1. Put the RS485 switch into position T.
2. Put the rotary switch into a position between 1 and 7, depending on the maximum current that can be supplied from the charging network.



3. See the matrix below. This value must be the lower out of the main switch rated current MCB (not the RCD) and the contracted rate.

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

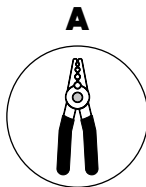
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubt, contact Wallbox Service.

4. Close the cover of the charger following the instructions in the **Installation Guide**.

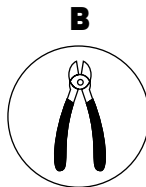
INSTALLATION WITH COMMANDER 2

Power Sharing

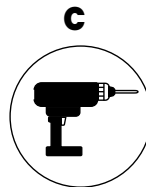
Tools



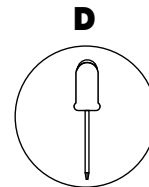
Wire Strippers



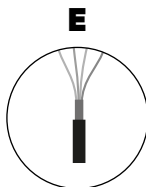
Cutting Pliers



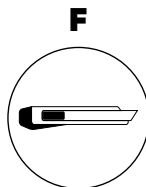
Drilling machine
M12 and hole saw
25mm



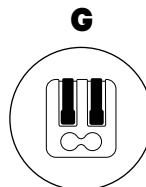
Flat Screwdriver



Connecting cable between
charger and charger
(UTP CAT 5E 250m
Max. Length)



Cutter



Two pole lever
connectors
(for small
communication
wires)

Refer to the **Commander 2 Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH COMMANDER 2

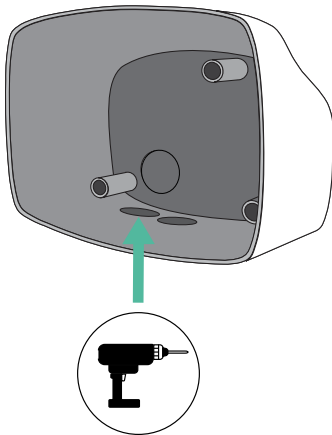
Power Sharing

Before Installation

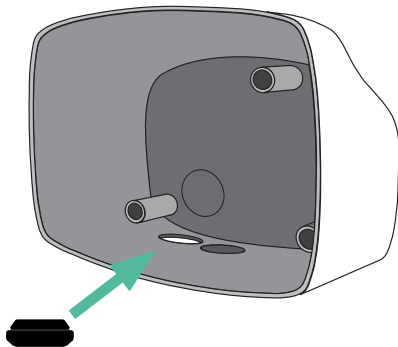
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

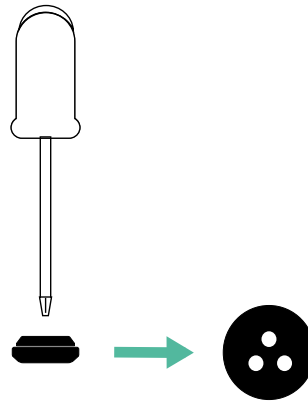
- 1.** Remove the plastic knock-out at the bottom of the charger using a 25mm drill bit hole saw drill.



- 3.** Insert the **grommet** in the hole at the bottom of the charger.



- 2.** Using a flat screwdriver, make an incision in the 3-exit grommet. Remember, that you need to use only one hole of the 3-exit grommet by each communication line.



Commander 2 Installation

Install the charger following the instructions in the **Commander 2 Installation Guide**.



Important

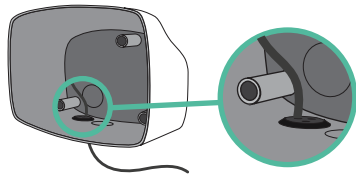
Ensure not to close the cover of the charger.

INSTALLATION WITH COMMANDER 2

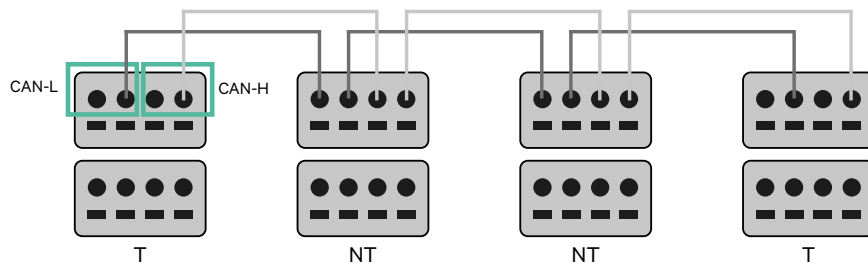
Power Sharing

Wiring the system

1. Ensure that the power is turned off during the installation.
2. Insert the communication wire (UTP 5E cable) through the grommet.



3. Check the position of CAN - L and CAN - H indicated above the connector.
Remember: the sequence in the connector can be different depending on each product.
4. Once located the connector, start cabling the primary charger (the first of the chain). Use a UTP 5E cable (a pair), then, insert one of the cables in CAN-L and the other in CAN-H. After, connect the other chargers of the chain following the scheme below. As you may notice, all the chargers have CAN-L and a CAN-H inputs and outputs, except for the first and the last ones.



Important

- Make sure to connect each CAN-L to the respective CAN-L connector of all the chargers. Do the same for CAN-H.
- Power sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

	CAN-L	CAN-H
CAN-L	✓	×
CAN-H	×	✓

Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

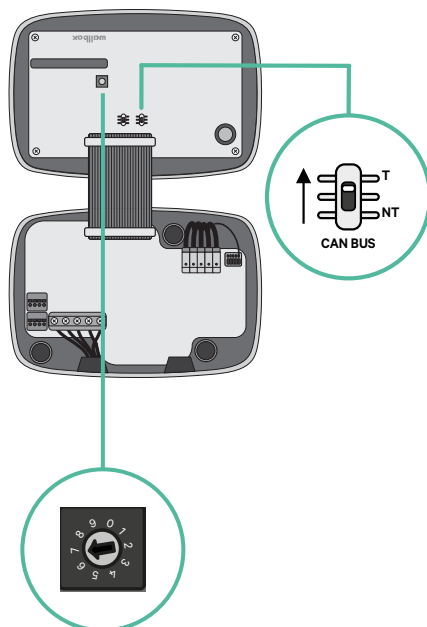
Refer to the **Installation Guide** for more information.

INSTALLATION WITH COMMANDER 2

Power Sharing

Terminating settings

1. Once the cabling is completed, you need to activate the termination resistors. The first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



INSTALLATION WITH COMMANDER 2

Power Sharing

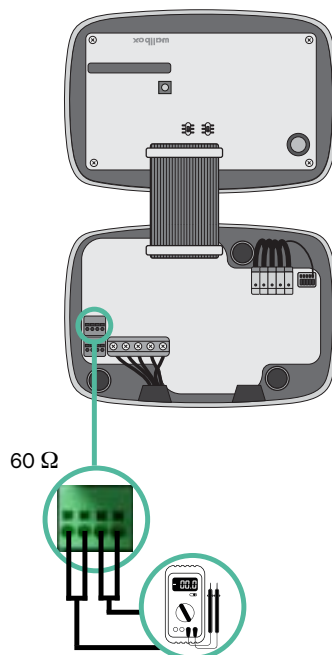
- 2.** Once the termination resistors are set up, place the current selector of each charger following the information. The first charger of the chain is the primary charger, the others are secondary.

The **primary charger** will be set on position 8 or 9.

The **secondary chargers** will be set on position 0.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	*PS	6	10	13	16	20	25	32	*PS	*PS

- 3.** To ensure a proper set-up the measured **resistance between CAN-H and CAN-L must be near to 60 Ohms**. If it differs from that, recheck the proper wiring and the T/NT configuration.



- 4.** Close the cover of your charger by following the instructions in the respective **Installation Guide**.

INSTALLATION WITH COMMANDER 2

Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Commander 2 charger.
2. Set the terminating resistance into NT, make the communication wiring as explained above and then close the charger.



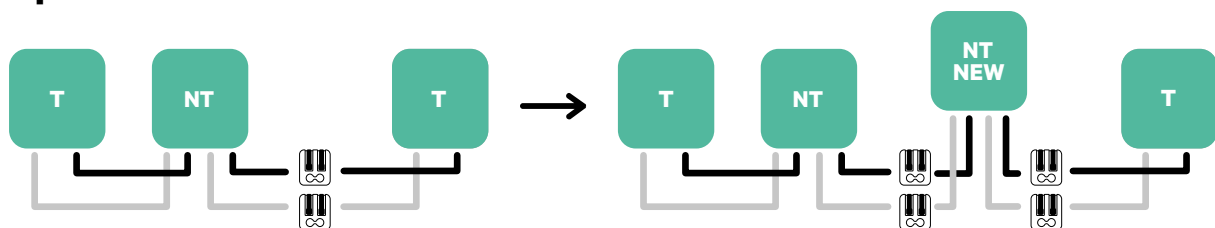
Important

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

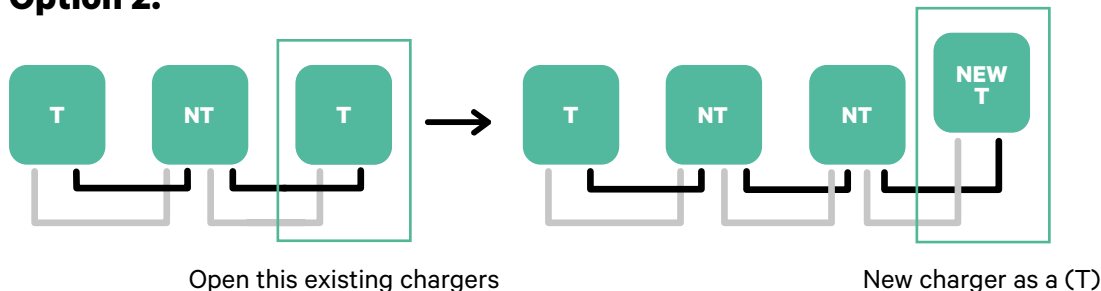
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



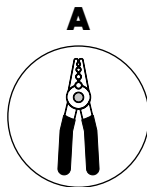
Option 2:



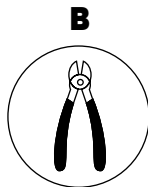
INSTALLATION WITH COMMANDER 2

Dynamic Power Sharing

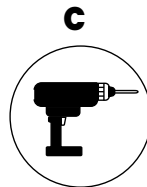
Tools



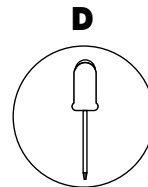
Wire Strippers



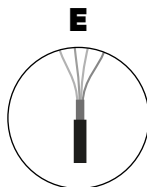
Cutting Pliers



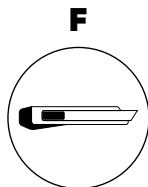
Drilling machine
M12 and hole saw
25mm



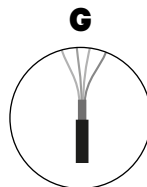
Flat Screwdriver



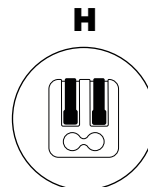
Connecting cable between
charger and meter
(STP Class 5E
500m Max Length)



Cutter



Connecting cable between
charger and charger
(UTP CAT 5E
250m Max Length)



Two pole lever
connectors
(for small
communication
wires)

Refer to the **Commander 2 Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH COMMANDER 2

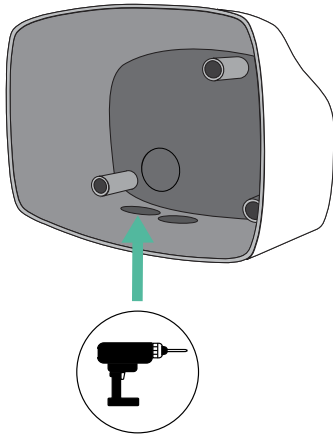
Dynamic Power Sharing

Before Installation

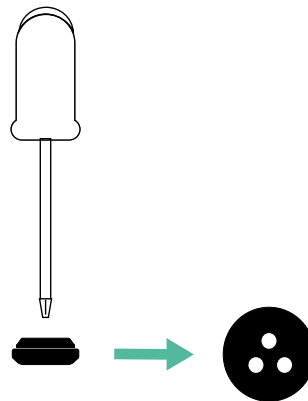
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

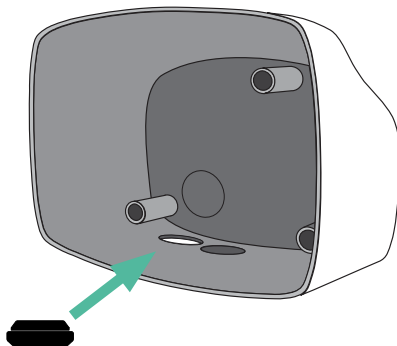
- 1.** Remove the plastic knock-out at the bottom of the charger using a 25mm drill bit hole saw.



- 2.** Using a flat screwdriver, make an incision in the 3-exit grommet. Remember, that you need to use only one hole of the 3-exit grommet by each communication line.



- 3.** Insert the **grommet** in the bottom hole of the charger.



INSTALLATION WITH COMMANDER 2

Dynamic Power Sharing

Commander 2 Installation

Install the device following the instructions in the **Commander 2 Installation Guide**.

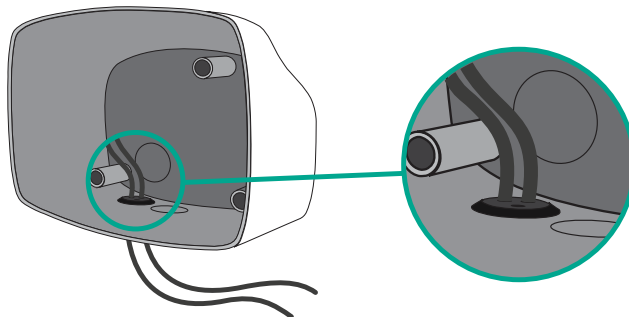


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

- 1.** Keep the power turned off during the installation.
- 2.** Insert through the grommet the two communication wires, one for meter communication and the other one for communication between chargers.



- 3.** Install the meter following the instructions in the Meter Wiring Guide included in the package.
- 4.** Wire the meter and the charger by following the relevant scheme below based on the model of your meter.



Important

It is mandatory to use an STP class 5E cable. Employ only 1 wire of each twisted pair and keep in mind that the communication wiring must not be more than 500m long.

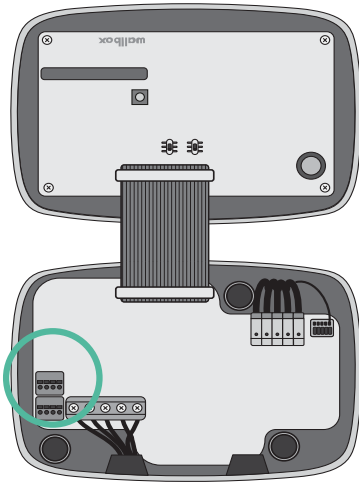


Important

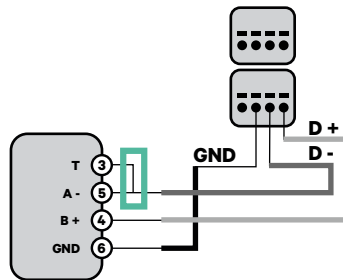
Insert only one cable for each grommet.

INSTALLATION WITH COMMANDER 2

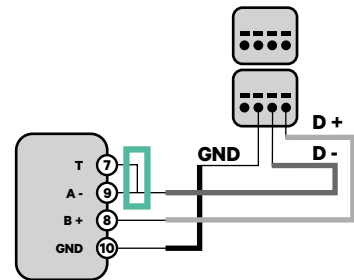
Dynamic Power Sharing



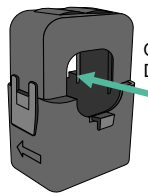
EM 112



EM 340

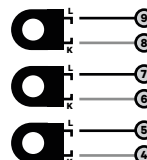


EM 330



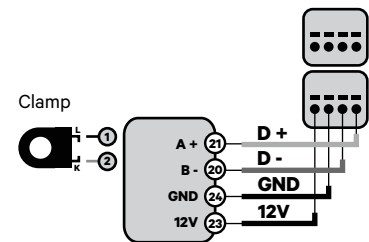
Current Direction

Clamps



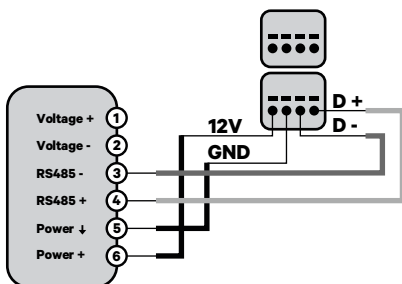
CTA 5X 250 A 5A
CTA 6X 400 A 5A
CTD-6S 600 A 5A

N1 CT

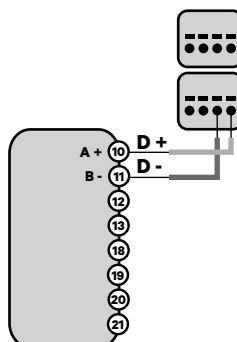


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

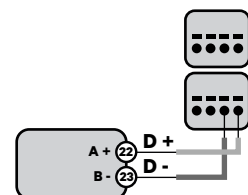
SPM1-100-AC



Pro MOD2



Pro 380 MOD

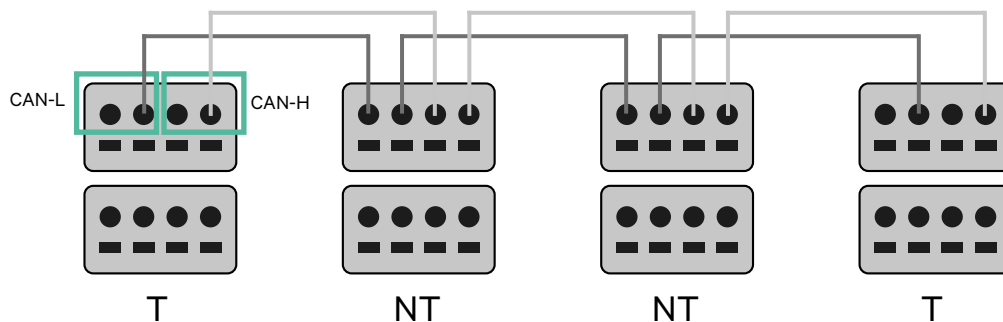


INSTALLATION WITH COMMANDER 2

Dynamic Power Sharing

Wiring the system

1. Ensure that the power is turned off during the installation.
2. Check the position of CAN - L and CAN - H indicated above the connector.
Remember: the sequence in the connector can be different depending on each product.
3. Once located the connector, start cabling the primary charger (the first of the chain). Use a UTP 5E cable (a pair), then, insert one of the cables in CAN-L and the other in CAN-H. After, connect the other chargers of the chain following the scheme below. As you may notice, all the chargers have CAN-L and a CAN-H inputs and outputs, except for the first and the last ones.



Important

- Make sure to connect each CAN-L to the respective CAN-L connector of all the chargers. Do the same for CAN-H.
- Power sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

	CAN-L	CAN-H
CAN-L	✓	×
CAN-H	×	✓

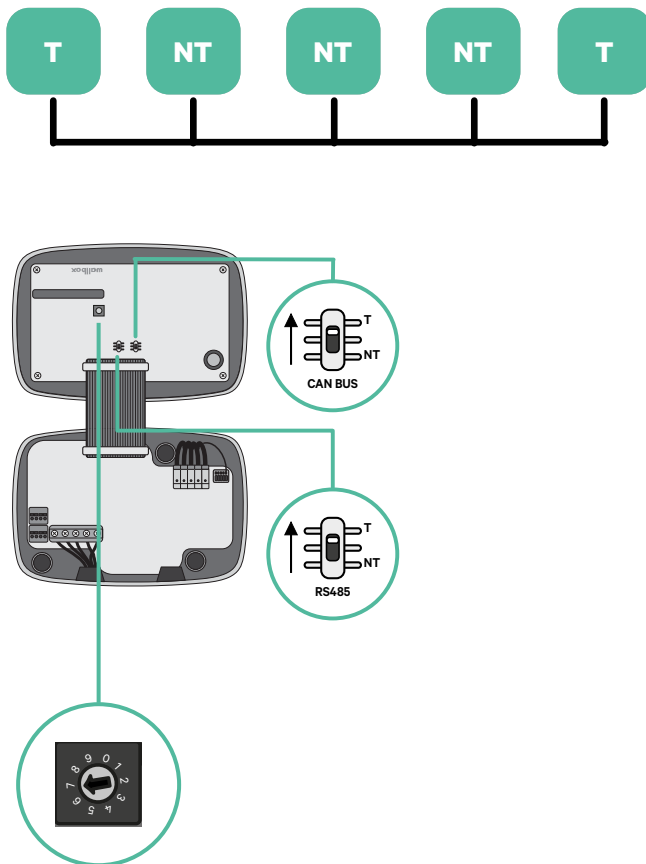
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

INSTALLATION WITH COMMANDER 2

Dynamic Power Sharing

Terminating settings

1. Once the cabling is complete, you need to activate the terminating resistors. First set up RS485 into T only for the charger that is connected into meter. Then set up the CAN BUS, the first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



INSTALLATION WITH COMMANDER 2

Dynamic Power Sharing

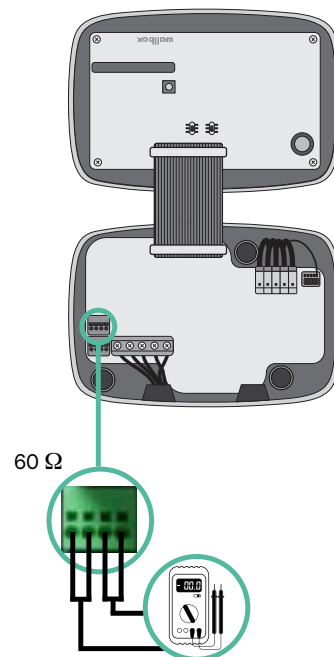
2. Once the termination resistors are set up, place the current selector of each charger following the information. The first charger of the chain is the primary charger, the others are secondary.

The **primary charger** will be set on position 8 or 9.

The **secondary chargers** will be set on position 0.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	*PS	6	10	13	16	20	25	32	*PS	*PS

3. To ensure a proper set-up the measured **resistance between CAN-H and CAN-L must be near to 60 Ohms**. If it differs from that, recheck the proper wiring and the T/NT configuration.



4. Close the cover of your charger by following the instructions in the respective **Installation Guide**.

INSTALLATION WITH COMMANDER 2

Dynamic Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Dynamic Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Commander 2 charger.
2. Set the terminating resistance into NT, make the communication wiring as explained above and then close the charger.



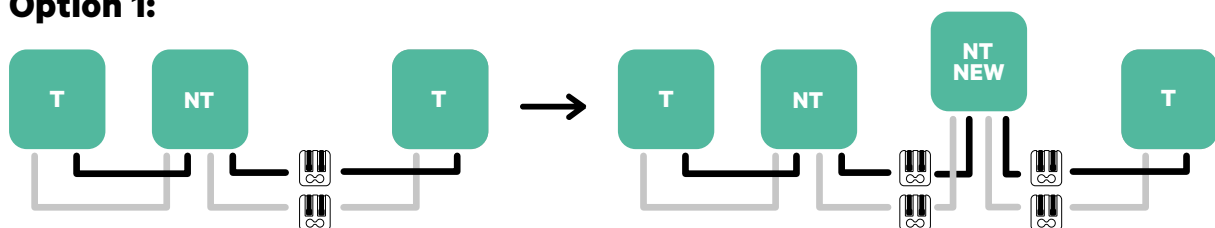
Important

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

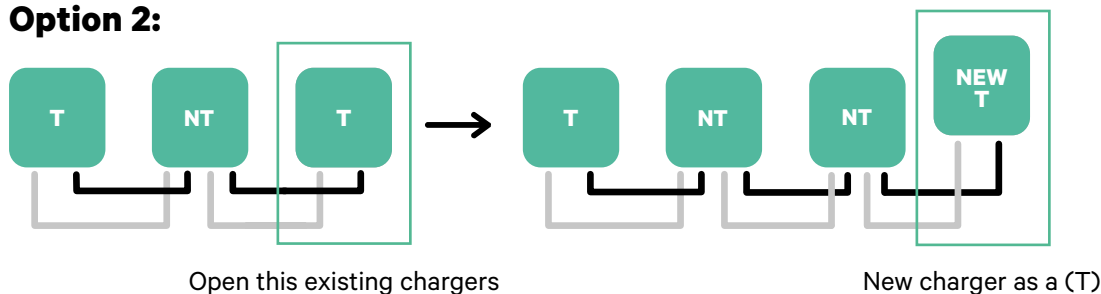
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



Option 2:

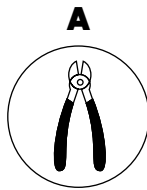


Once you finish the extension of the existing installation, continue with steps on the next page for setting up the chargers.

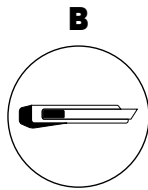
INSTALLATION WITH COPPER SB

Power Boost and Eco-Smart

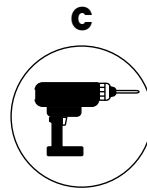
Tools



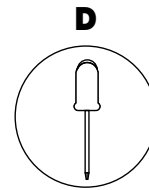
Cutting Pliers



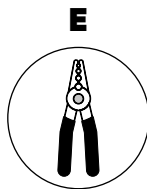
Utility Knife



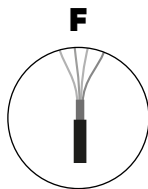
Drilling machine
M12 and hole saw
25mm



Flat Screwdriver
6mm



Wire
Strippers



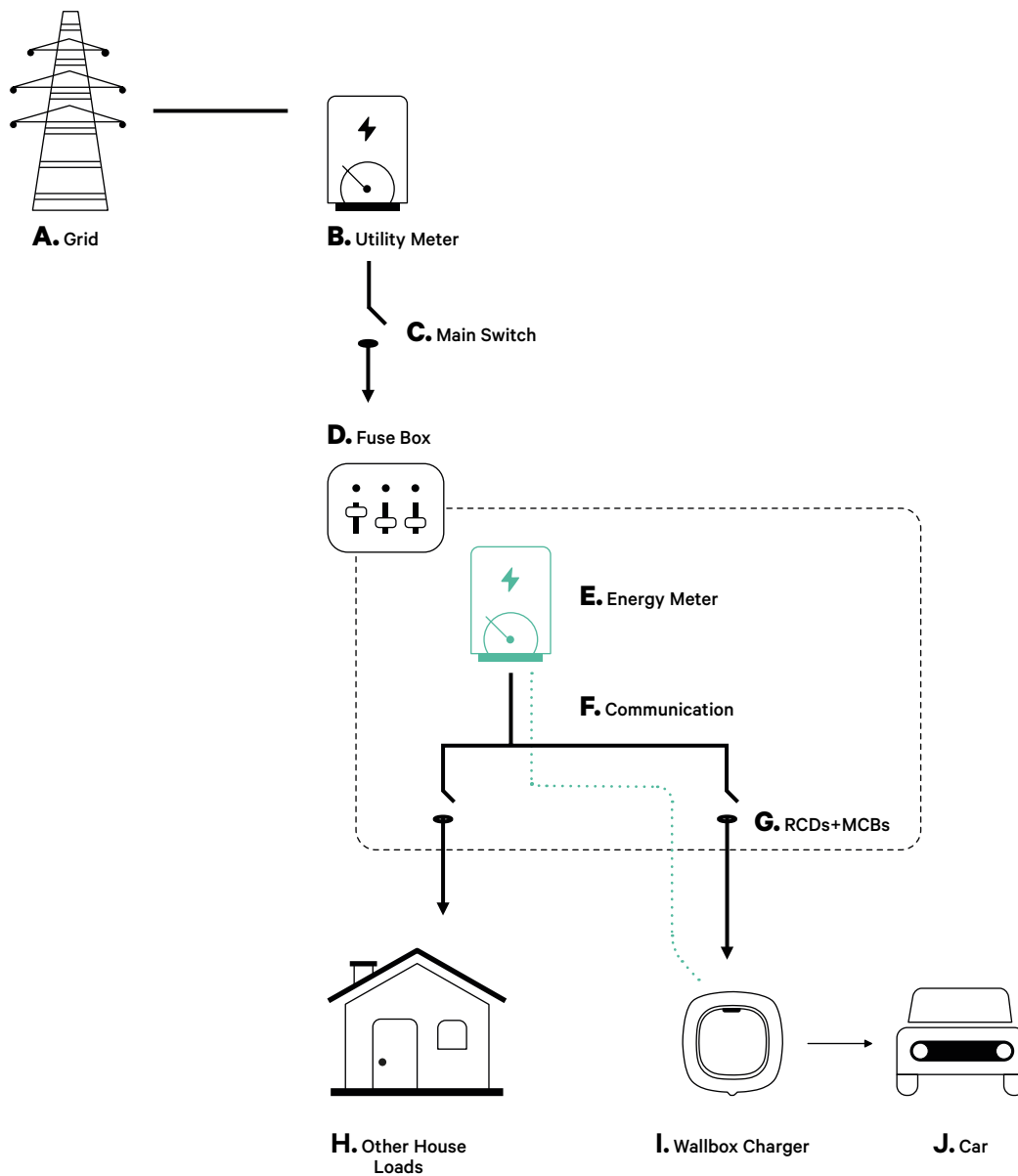
Connecting cable between
charger and meter
(STP Class 5E
500m Max Length)

Refer to the **Copper SB Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH COPPER SB

Power Boost and Eco-Smart

Place the energy meter after the mains supply and before the fuse box.



INSTALLATION WITH COPPER SB

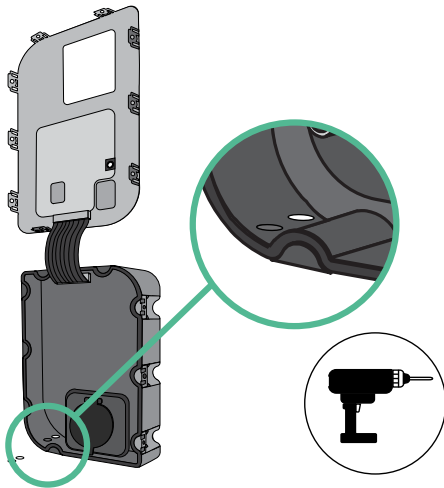
Power Boost and Eco-Smart

Before Installation

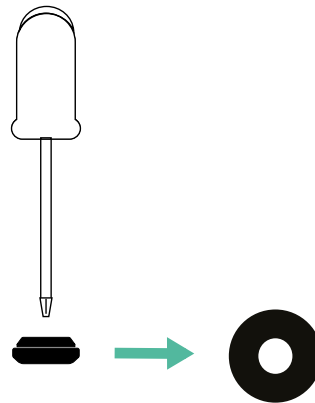
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

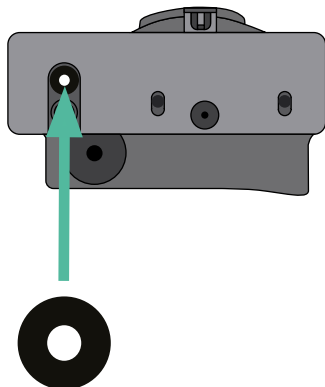
- 1.** Remove the plastic knock-out at the bottom of the charger using an M12 drill bit.



- 2.** Make a hole in the grommet using a flat screw driver.



- 3.** Insert the **grommet** in the hole at the bottom of the charger.



INSTALLATION WITH COPPER SB

Power Boost and Eco-Smart

Copper SB Installation

Install the device following the instructions in the **Copper SB Installation Guide**.

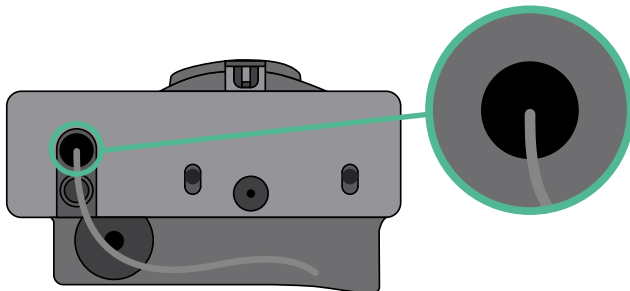


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

1. Keep the power turned off during the installation.
2. Insert the communication wire through the grommet.



3. Install the meter following the instructions in the Meter Wiring Guide included in the package.
4. Wire the meter and the charger by following the relevant scheme below based on the model of your meter.



Important

It is mandatory to use an STP class 5E cable. Employ only 1 wire of each twisted pair and keep in mind that the communication wiring must not be more than 500m long.

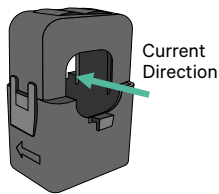
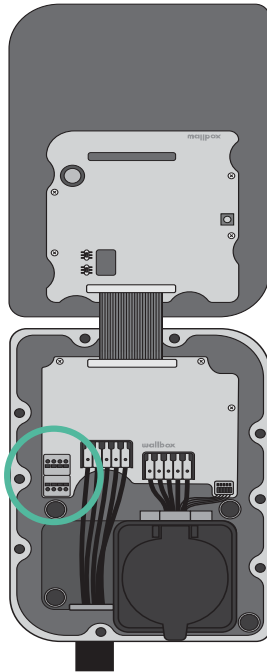


Important

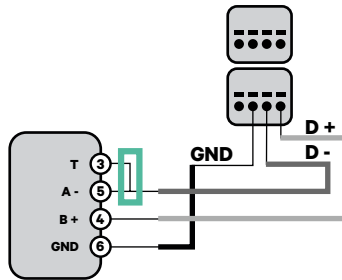
Insert only one cable for each grommet.

INSTALLATION WITH COPPER SB

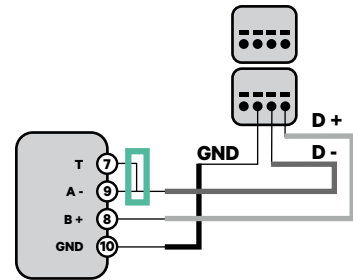
Power Boost and Eco-Smart



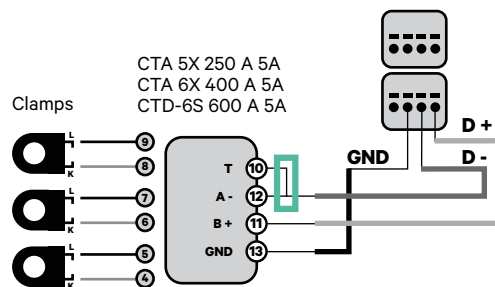
EM 112



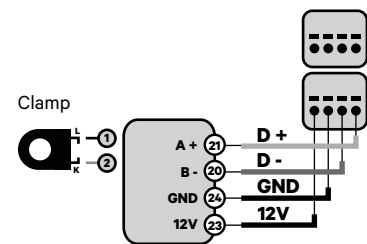
EM 340



EM 330

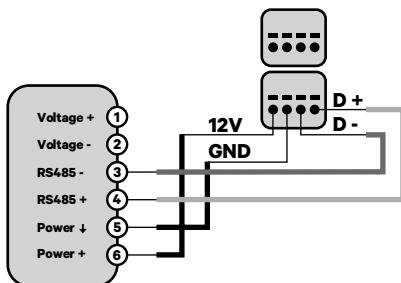


N1 CT

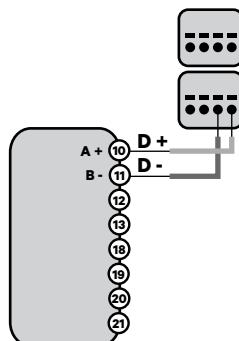


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

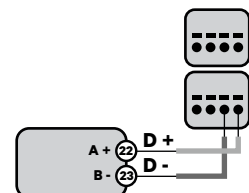
SPM1-100-AC



Pro MOD2



Pro 380 MOD



Important

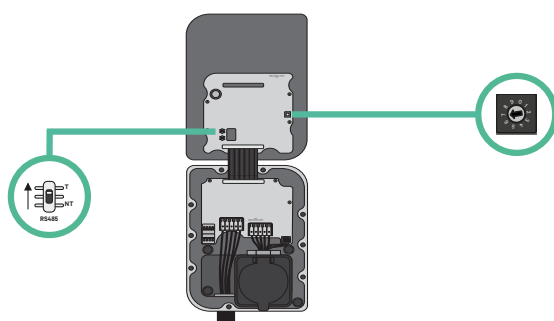
Remember to check the Compatibility Table of each meter.

INSTALLATION WITH COPPER SB

Power Boost and Eco-Smart

Terminating resistance activation and current selector configuration

1. Put the RS485 switch into position T.
2. Put the rotary switch into a position between 1 and 7, depending on the maximum current that can be supplied from the charging network.



3. See the matrix below. This value must be the lower out of the main switch rated current MCB (not the RCD) and the contract tariff.

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

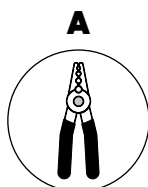
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

4. Close the cover of the charger following the instructions in the **Installation Guide**.

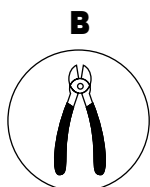
INSTALLATION WITH COPPER SB

Power Sharing

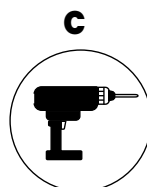
Tools



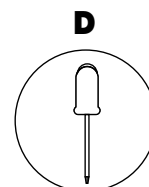
Wire Strippers



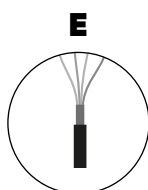
Cutting Pliers



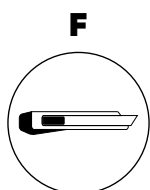
Drilling machine
M12 and hole saw
25mm



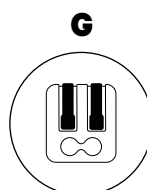
Flat Screwdriver



Connecting cable between
charger and charger
(UTP CAT 5E 250m
Max. Length)



Cutter



Two pole lever
connectors
(for small
communication
wires)

Refer to the **Copper SB Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH COPPER SB

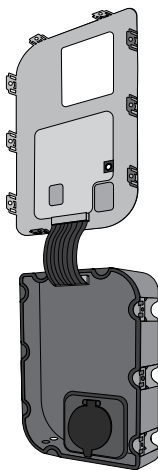
Power Sharing

Before Installation

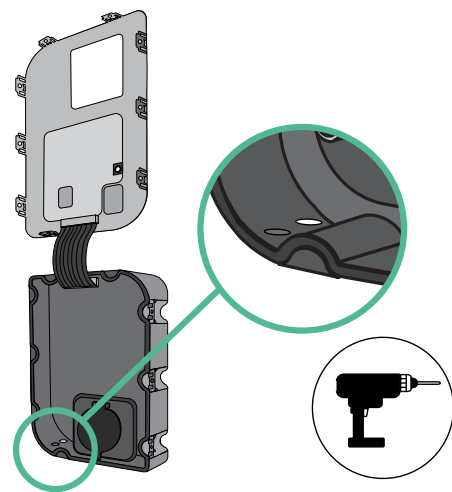
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

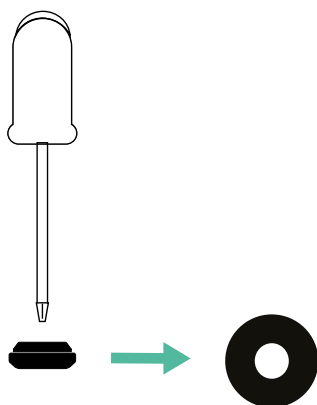
- 1.** Open the cover of the charger by following the instructions in **Copper SB Installation Guide**.



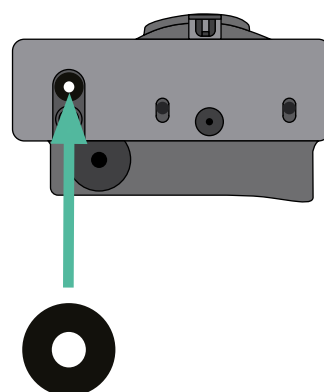
- 2.** Remove the plastic knock-out at the bottom of the charger using an M12 drill bit.



- 3.** Make a hole in the grommet using a flat screw driver.



- 4.** Insert the **grommet** in the hole at the bottom of the charger.



Copper SB Installation

Install the charger following the instructions in the **Copper SB Installation Guide**.



Important

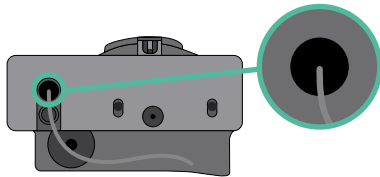
Ensure not to close the cover of the charger.

INSTALLATION WITH COPPER SB

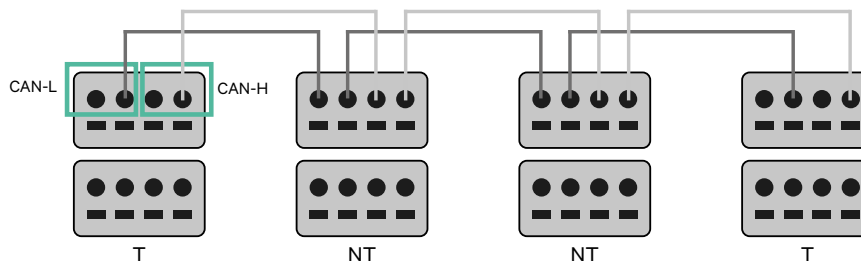
Power Sharing

Wiring the system

1. Ensure that the power is turned off during the installation.
2. Insert the communication wire (UTP 5E cable) through the grommet.



3. Check the position of CAN - L and CAN - H indicated above the connector.
Remember: the sequence in the connector can be different depending on each product.
4. Once located the connector, start cabling the primary charger (the first of the chain). Use a UTP 5E cable (a pair), then, insert one of the cables in CAN-L and the other in CAN-H. After, connect the other chargers of the chain following the scheme below. As you may notice, all the chargers have CAN-L and a CAN-H inputs and outputs, except for the first and the last ones.



Important

- Make sure to connect each CAN-L to the respective CAN-L connector of all the chargers. Do the same for CAN-H.
- Power sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

	CAN-L	CAN-H
CAN-L	✓	×
CAN-H	×	✓

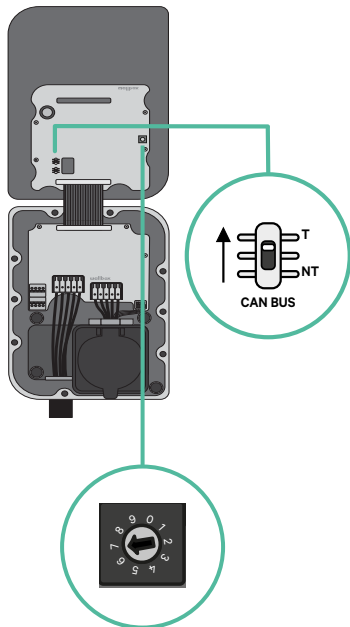
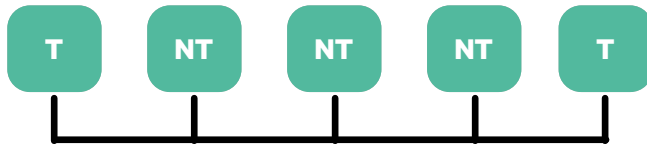
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

INSTALLATION WITH COPPER SB

Wiring the System

Terminating settings

1. Once the cabling is completed, you need to activate the termination resistors. The first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



INSTALLATION WITH COPPER SB

Wiring the System

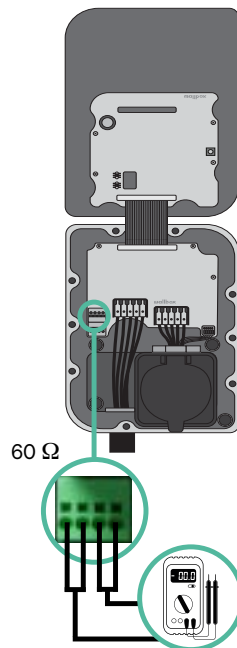
- 2.** Once the termination resistors are set up, place the current selector of each charger following the information. The first charger of the chain is the primary charger, the others are secondary.

The **primary charger** will be set on position 8 or 9.

The **secondary chargers** will be set on position 0.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	*PS	6	10	13	16	20	25	32	*PS	*PS

- 3.** To ensure a proper set-up the measured **resistance between CAN-H and CAN-L must be near to 60 Ohms**. If it differs from that, recheck the proper wiring and the T/NT configuration.



- 4.** Close the cover of the charger following the instructions in the respective **Installation Guide**.

INSTALLATION WITH COPPER SB

Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Copper SB charger.
2. Set the terminating resistance into NT, make the communication wiring as explained above and then close the charger.



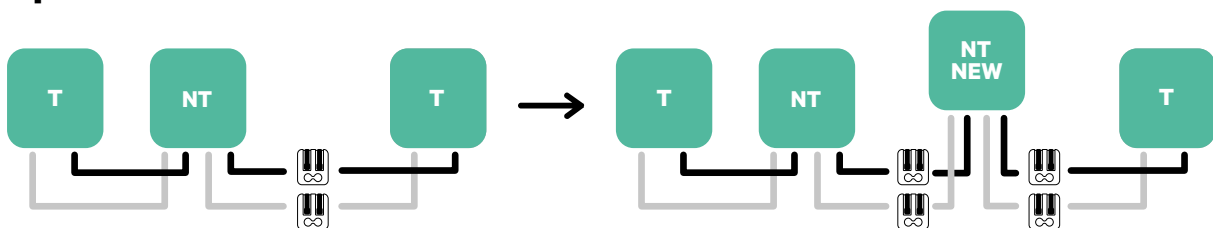
Important

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

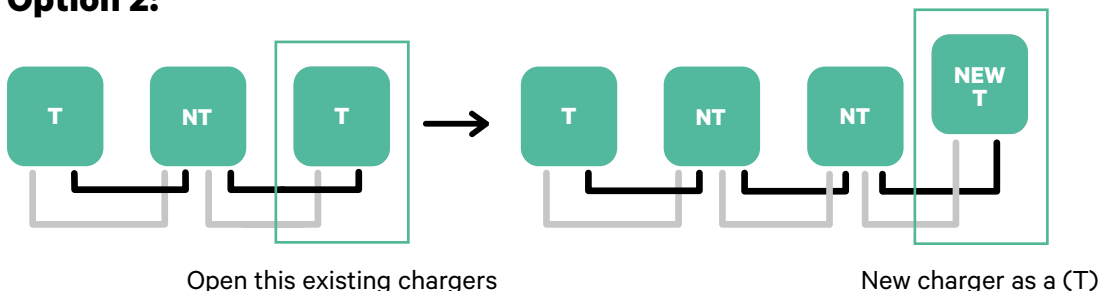
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



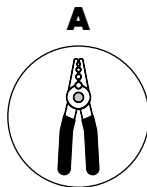
Option 2:



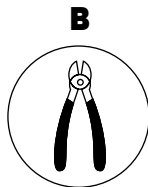
INSTALLATION WITH COPPER SB

Dynamic Power Sharing

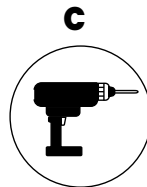
Tools



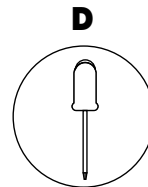
Wire Strippers



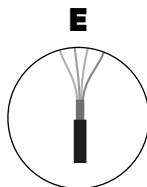
Cutting Pliers



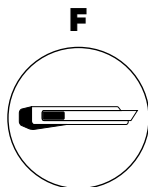
Drilling machine
M12 and hole saw
25mm



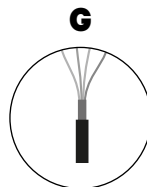
Flat Screwdriver



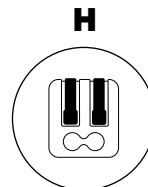
Connecting cable between
charger and meter
(STP Class 5E
500m Max Length)



Cutter



Connecting cable between
charger and charger
(UTP CAT 5E 250m
Max. Length)



Two pole lever
connectors
(for small
communication
wires)

Refer to the **Copper SB Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH COPPER SB

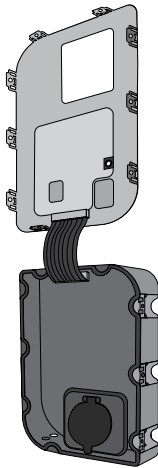
Dynamic Power Sharing

Before Installation

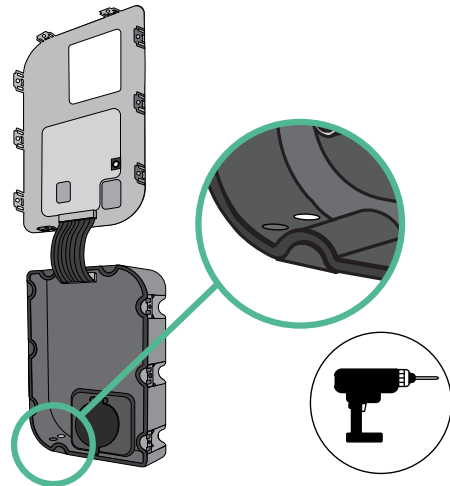
- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

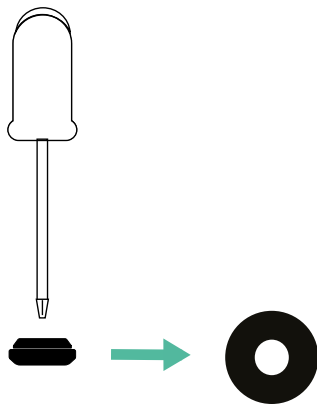
- 1.** Open the cover of the charger by following the instructions in **Copper SB Installation Guide**.



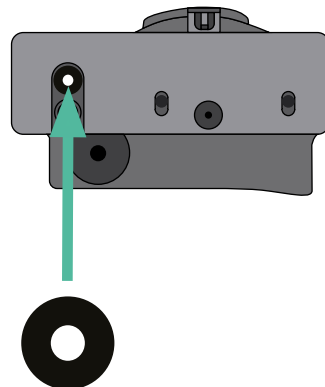
- 2.** Remove the plastic knock-out at the bottom of the charger using an M12 drill bit.



- 3.** Make a hole in the grommet using a flat screw driver.



- 4.** Insert the **grommet** in the hole at the bottom of the charger.



INSTALLATION WITH COPPER SB

Dynamic Power Sharing

Copper SB Installation

Install the device following the instructions in the **Copper SB Installation Guide**.

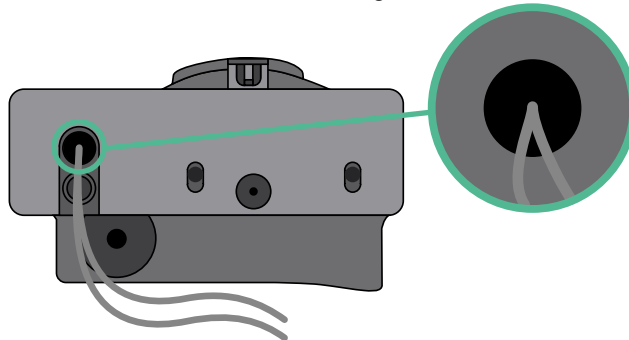


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

1. Keep the power turned off during the installation.
2. Insert through the grommet the two communication wires, one for meter communication and the other one for communication between chargers.



3. Install the meter following the instructions in the Meter Wiring Guide included in the package.
4. Wire the meter and the charger by following the relevant scheme below based on the model of your meter.

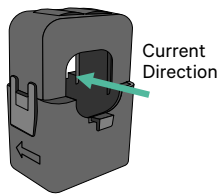
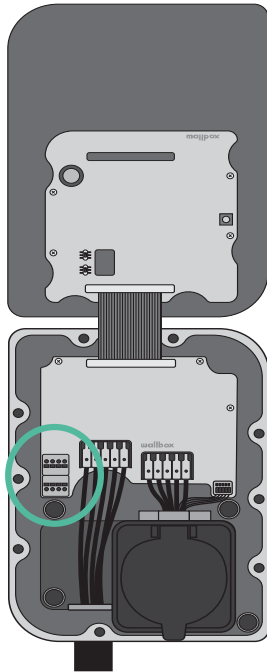


Important

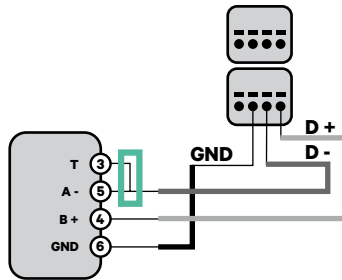
It is mandatory to use an STP class 5E cable. Employ only 1 wire of each twisted pair and keep in mind that the communication wiring must not be more than 500m long.

INSTALLATION WITH COPPER SB

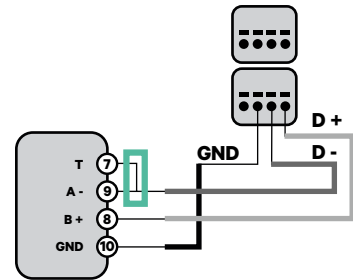
Dynamic Power Sharing



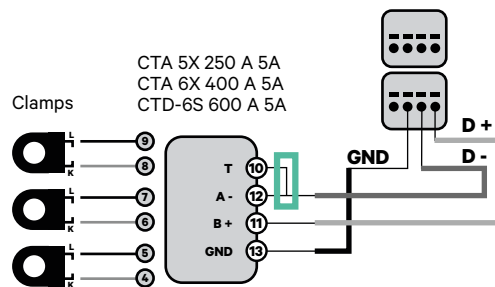
EM 112



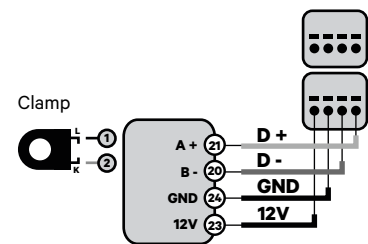
EM 340



EM 330

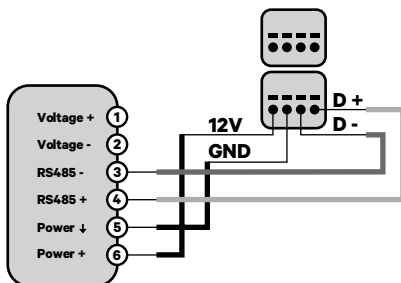


N1 CT

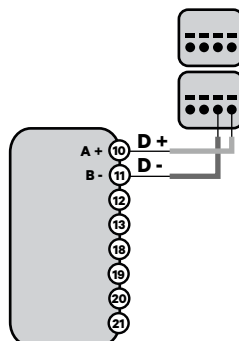


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

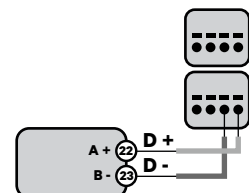
SPM1-100-AC



Pro MOD2



Pro 380 MOD



Important

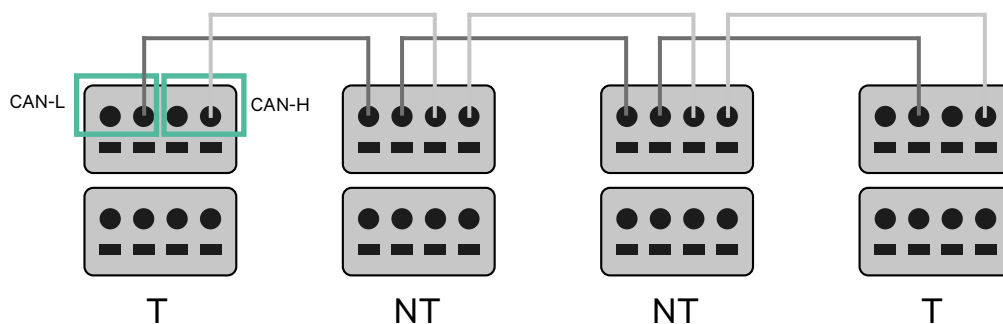
Remember to check the Compatibility Table of each meter.

INSTALLATION WITH COPPER SB

Dynamic Power Sharing

Wiring the system

1. Ensure that the power is turned off during the installation.
2. Check the position of CAN - L and CAN - H indicated above the connector.
Remember: the sequence in the connector can be different depending on each product.
3. Once located the connector, start cabling the primary charger (the first of the chain). Use a UTP 5E cable (a pair), then, insert one of the cables in CAN-L and the other in CAN-H. After, connect the other chargers of the chain following the scheme below. As you may notice, all the chargers have CAN-L and a CAN-H inputs and outputs, except for the first and the last ones.



Important

- Make sure to connect each CAN-L to the respective CAN-L connector of all the chargers. Do the same for CAN-H.
- Power sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

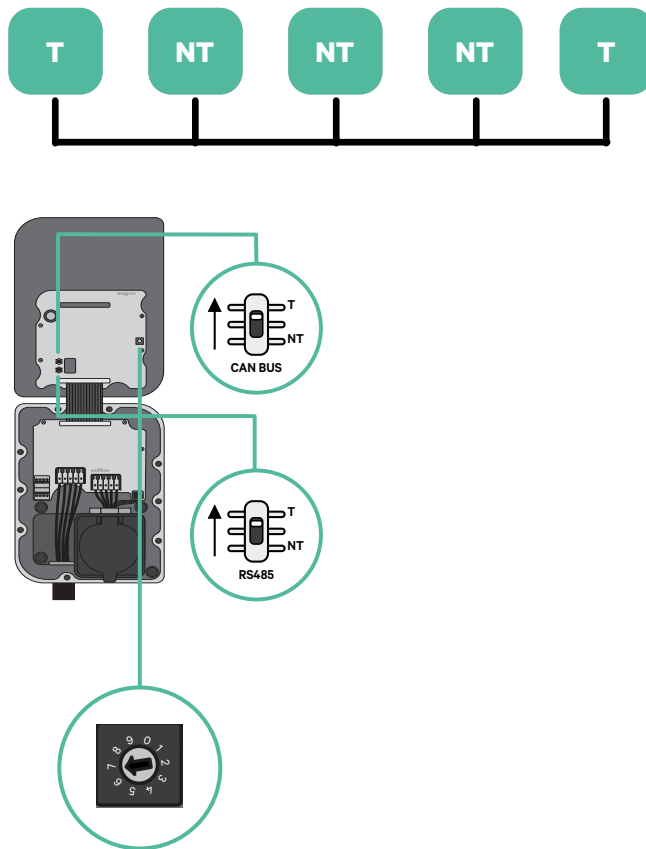
	CAN-L	CAN-H
CAN-L	✓	×
CAN-H	×	✓

Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

Dynamic Power Sharing

Terminating settings

1. Once the cabling is complete, you need to activate the terminating resistors. First set up RS485 into T only for the charger that is connected into meter. Then set up the CAN BUS, the first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



INSTALLATION WITH COPPER SB

Dynamic Power Sharing

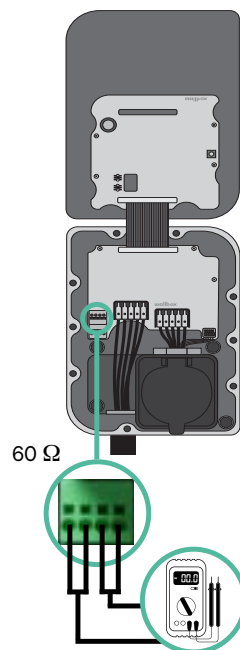
2. Once the termination resistors are set up, place the current selector of each charger following the information. The first charger of the chain is the primary charger, the others are secondary.

The **primary charger** will be set on position 8 or 9.

The **secondary chargers** will be set on position 0.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	*PS	6	10	13	16	20	25	32	*PS	*PS

3. To ensure a proper set-up the measured **resistance between CAN-H and CAN-L must be near to 60 Ohms**. If it differs from that, recheck the proper wiring and the T/NT configuration.



4. Close the cover of the charger following the instructions in the respective **Installation Guide**.

INSTALLATION WITH COMMANDER 2

Dynamic Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Dynamic Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Copper SB charger.
2. Set the terminating resistance into NT, make the communication wiring as explained above and then close the charger.



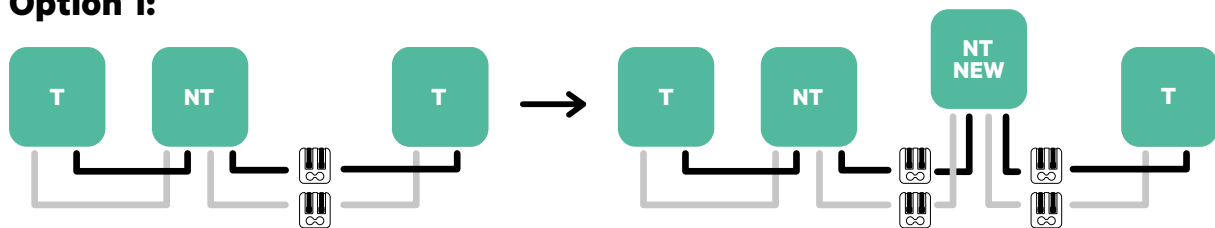
Important

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

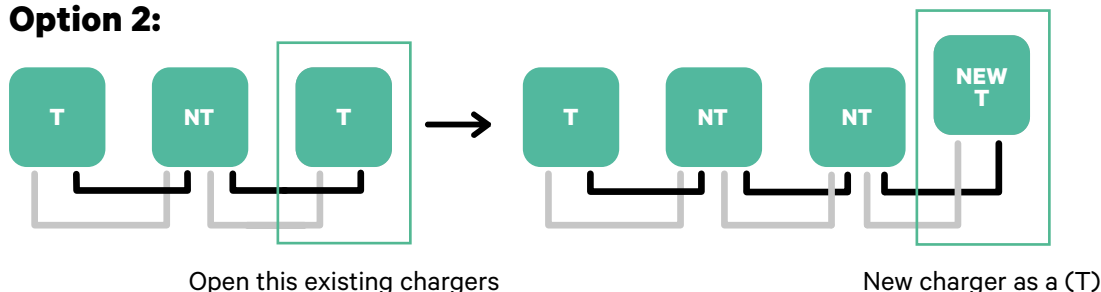
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



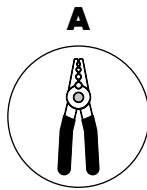
Option 2:



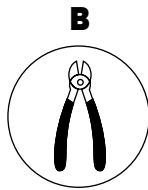
Once you finish the extension of the existing installation, continue with steps on the next page for setting up the chargers.

INSTALLATION WITH QUASAR V2H

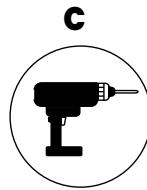
Tools



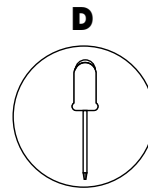
Wire
Strippers



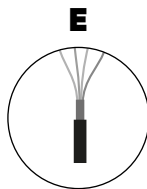
Cutting Pliers



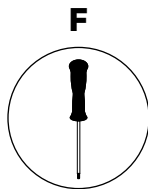
Drilling machine
hole saw 25mm.



Flat Screwdriver
6mm



Connecting cable between
charger and meter
(STP Class 5E
500m Max Length)

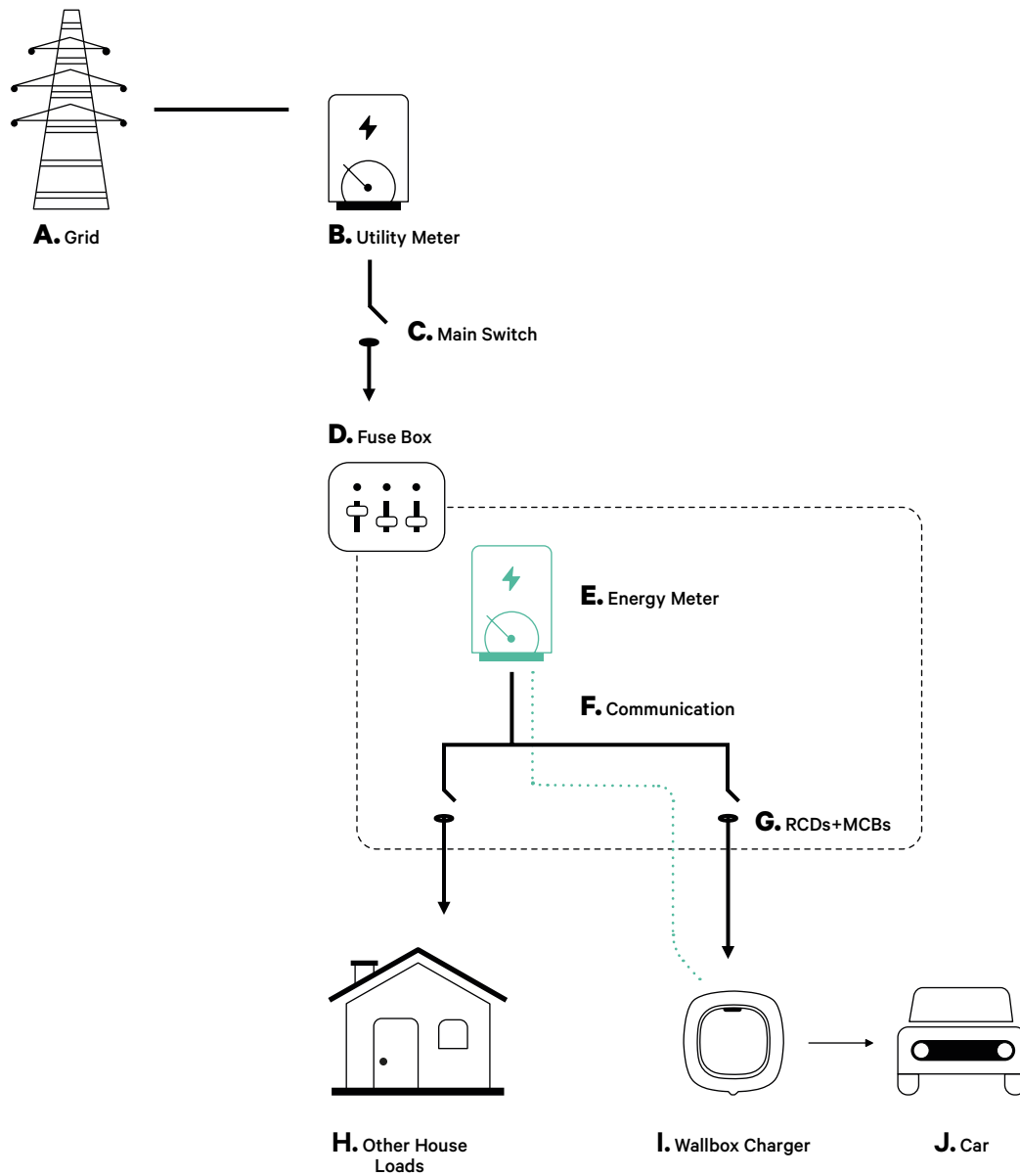


Torx T10

Refer to the **Quasar Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH QUASAR V2H

Place the energy meter after the mains supply and before the fuse box.



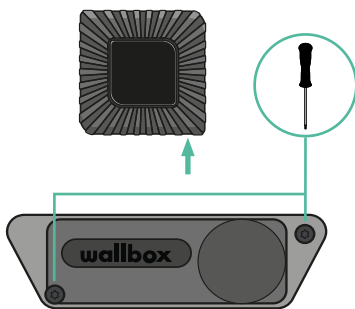
INSTALLATION WITH QUASAR V2H

Preparation

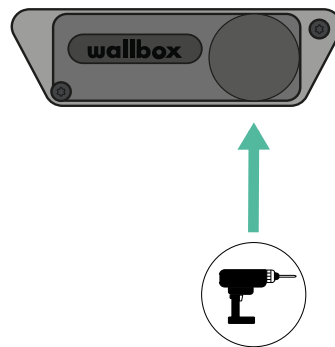
Keep the power turned off during the installation. Install the device following the instructions in the **Quasar Installation Guide**.

Installation

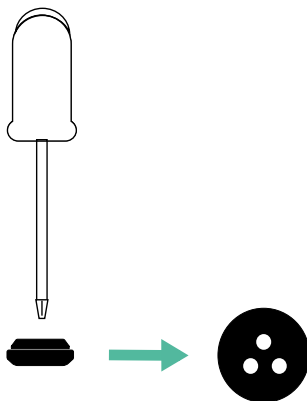
1. Remove the screws to open the communication lid.



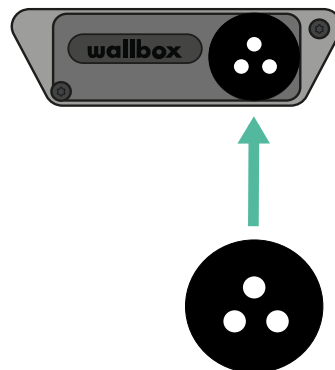
2. Remove the knock-out at the bottom of the charger using a 25mm hole saw drill bit.



3. Using a flat screwdriver, make an incision in the 3-exit grommet.



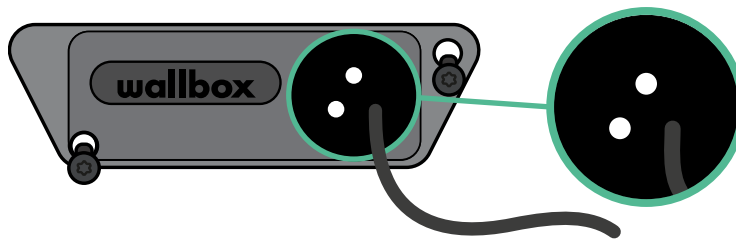
4. Insert the grommet in the hole on the communication lid.



INSTALLATION WITH QUASAR V2H

Communication wiring between the charger and the meter

1. Insert the communication wire through the grommet.



2. Install the meter following the instructions in the Meter Wiring Guide included in the package.
3. Wire the meter and the charger by following the relevant scheme below based on the model of your meter.



Important

It is mandatory to use a STP class 5E cable, use only 1 wire of each twisted pair. Remember that the communication wiring must not be more than 500m long.

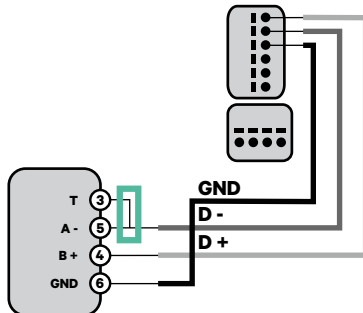


Important

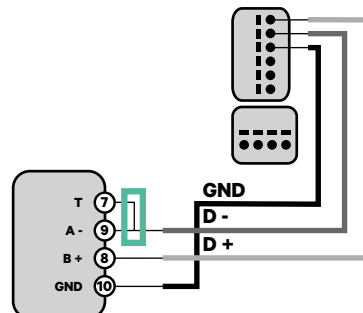
Remember that you need to use only one hole of the 3-exit grommet for each communication line.

INSTALLATION WITH QUASAR V2H

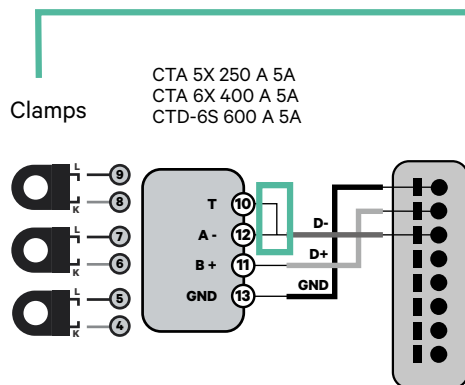
EM 112



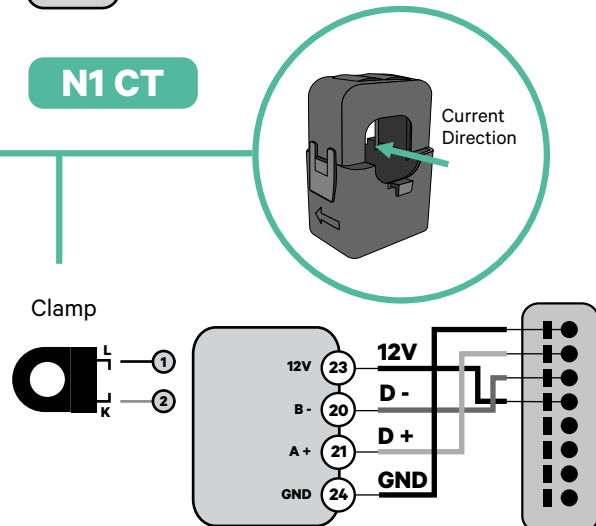
EM 340



EM 330

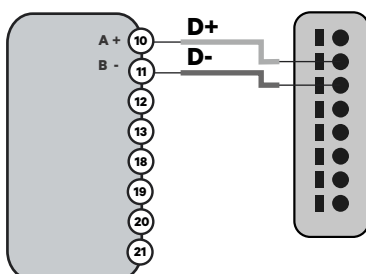


N1 CT

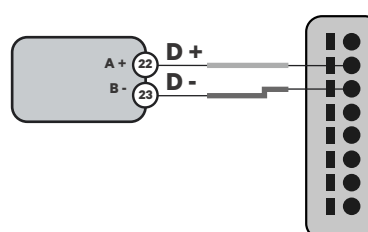


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

Pro MOD2



Pro 380 MOD



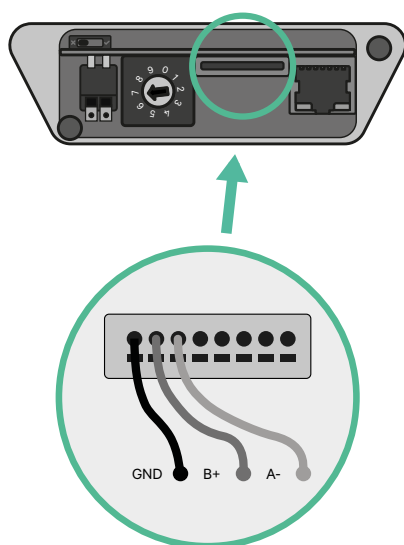
Important

Remember to check the Compatibility Table of each meter.

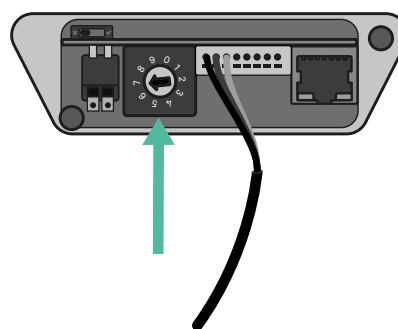
INSTALLATION WITH QUASAR V2H

Terminating resistance activation and current selector configuration

1. Link the communication connector to the board. Refer to the picture below.



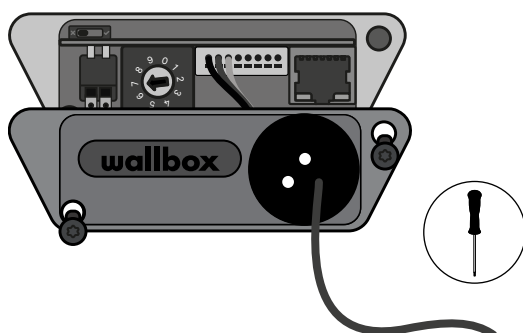
2. Put the rotary switch into a position between 1 and 7, depending on the maximum current that can be supplied from the charging network.



See the matrix below. This value must be the lower out of the main switch rated current MCB (not the RCD) and the contract tariff.

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

3. Close the communication lid and tighten the screws.



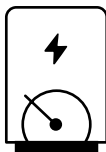
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

Getting started

Important Notes

- A.** Install the charger following the instructions listed in the chargers' **Installation Guide**. Refer to the user guide on the **Wallbox Academy** page for more information.
- B.** Only energy meters provided by Wallbox are compatible with Wallbox chargers.
- C.** Installations should be performed only by qualified personnel in accordance with applicable local regulations.
- D.** Update the Wallbox charger with the latest software version before installing the energy meter. Refer to the instructions for updating the charger on the **Wallbox Academy** page for more information.
- E.** Ensure that the charger is powered off and its cover is removed before connecting the energy meter. Close the charger properly after the installation.
- F.** After installing the charger, connect the energy meter before closing your charger. In case the energy meter is to be connected to a previously installed charger, open it to connect the energy meter.

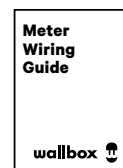
Inside the Package



Energy Meter



Grommet



Meter Wiring Guide

Getting started

General Characteristics

	Power Boost	Eco-Smart	Power Sharing	Dynamic Power Sharing
Primary Chargers	1	1	1	1
Secondary Chargers	-	-	1-24	1-24
Communication protocol	Modbus RTU	Modbus RTU	Modbus RTU	Modbus RTU
Maximum total length between the first and the last charger of the chain	-	-	250m	250m
Maximum length between the wiring of the Primary charger and the Energy Meter	500m	500m	-	500m
Terminating Chargers	1	1	2	2
Maximum Phase Current configurable	Minimum between main switch rated (MCB) and the contract tariff	Minimum between main switch rated (MCB) and the contract tariff	Minimum between main switch rated (MCB) and the contract tariff	Minimum between main switch rated (MCB) and the contract tariff
Configurable installation maximum current	Installation main switch rated current (MCB)	Installation main switch rated current (MCB)	Installation main switch rated current (MCB)	Installation main switch rated current (MCB)
myWallbox	Super admin or admin account and basic subscription	Super admin or admin account and basic subscription	Super admin or admin account and basic subscription	Super admin or admin account and standard subscription

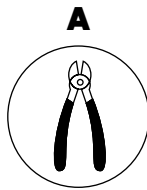
Meter Compatibility Table

Meters	Power Boost	Eco-Smart	Dynamic Power Sharing
EM340	✓	✓	✓
EM112	✓	✓	✓
SPM1-100-AC	✓	✗	✓
EM330 CTA 5X 250 A 5A	✓	✓	✓
EM330 CTA 6X 400 A 5A	✓	✓	✓
EM330 CTD-6S 600 5A	✓	✓	✓
N1CT	✓	✓	✓
PRO2 MOD	✓	✓	✓
PRO380 MOD	✓	✓	✓

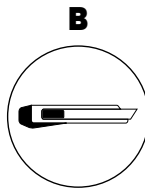
INSTALLATION WITH PULSAR MAX

Power Boost and Eco-Smart

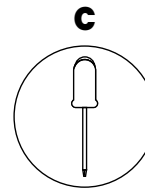
Tools



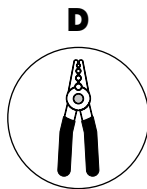
Cutting Pliers



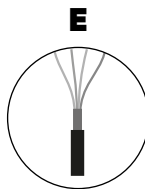
Utility Knife



Flat Screwdriver
6mm



Wire
Strippers



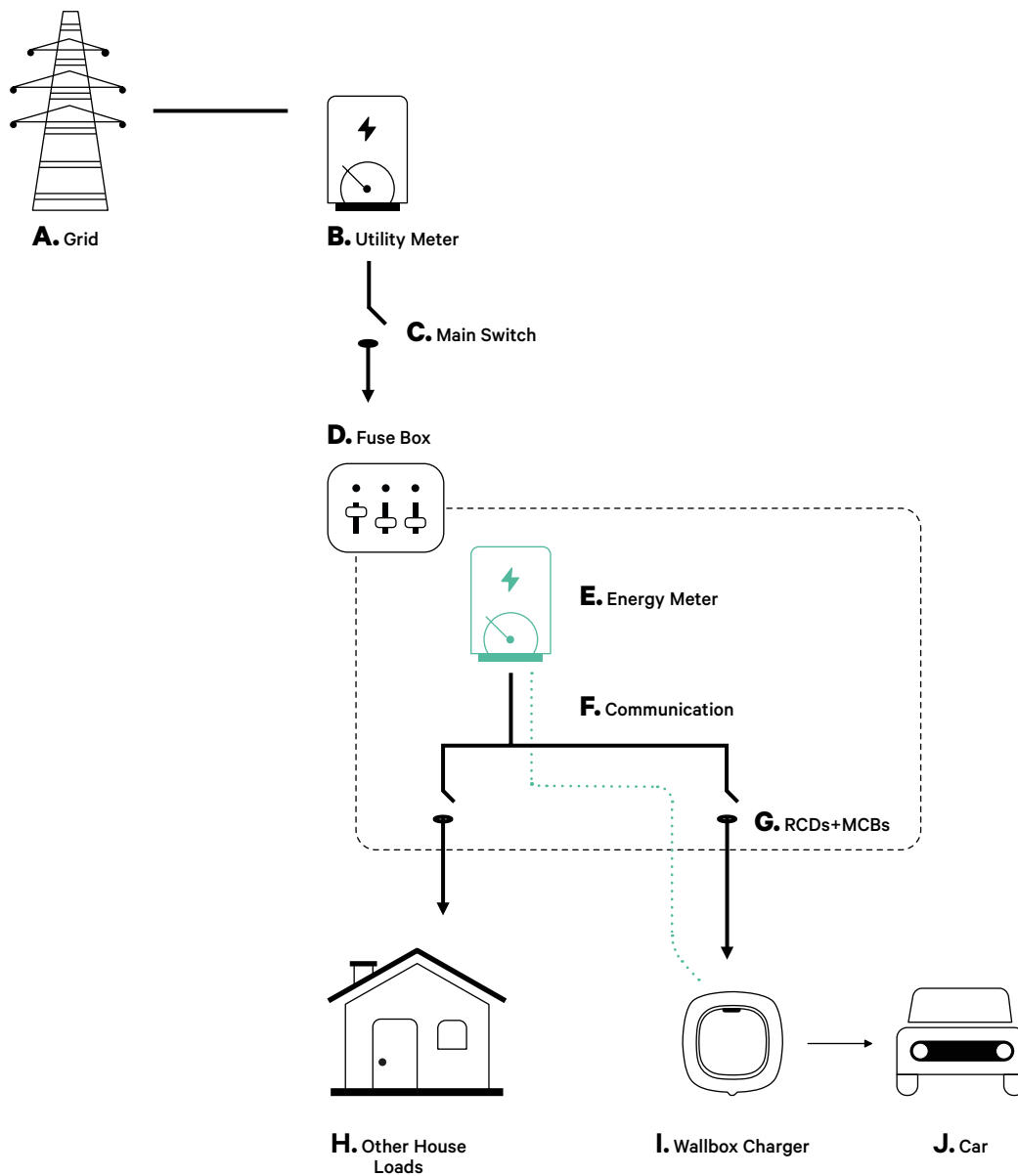
Connecting cable between
charger and meter
(STP Class 5E
500m Max Length)

Refer to the **Pulsar Max Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH PULSAR PLUS

Power Boost and Eco-Smart

Place the energy meter after the mains supply and before the fuse box.



INSTALLATION WITH PULSAR MAX

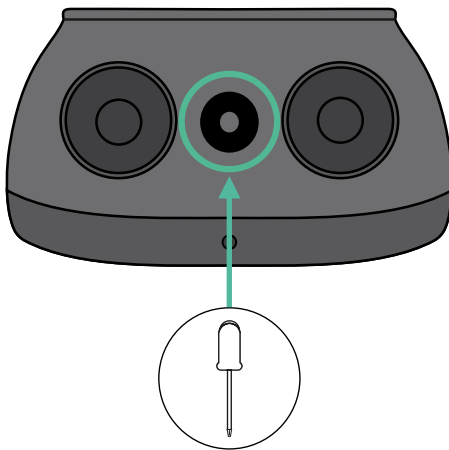
Power Boost and Eco-Smart

Before Installation

- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

- 1.** Make a hole at the central grommet, using a small flat screwdriver.



INSTALLATION WITH PULSAR MAX

Power Boost and Eco-Smart

Pulsar Max Installation Guide

Install the charger following the instructions in the **Pulsar Max Installation Guide**.

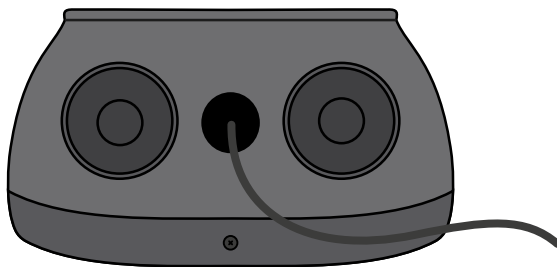


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

- 1.** Keep the power turned off during the installation.
- 2.** Insert the communication wire through the grommet.



- 3.** Install the meter following the instructions in the Meter Wiring Guide included in the package.
- 4.** Wire the meter and the charger by following the relevant scheme below based on the model of your meter.



Important

It is mandatory to use an STP class 5E cable. Employ only 1 wire of each twisted pair and keep in mind that the communication wiring must not be more than 500m long.

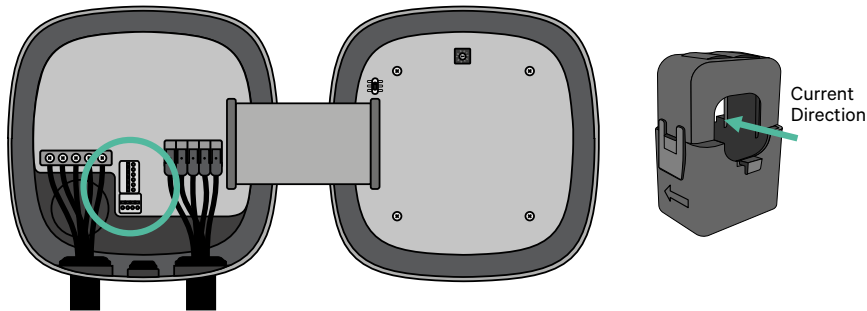


Important

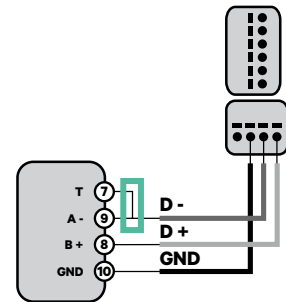
Insert only one cable for each grommet.

INSTALLATION WITH PULSAR MAX

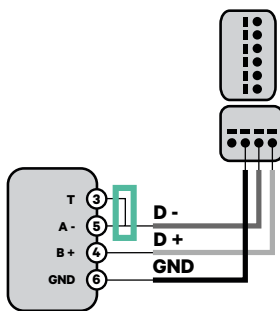
Power Boost and Eco-Smart



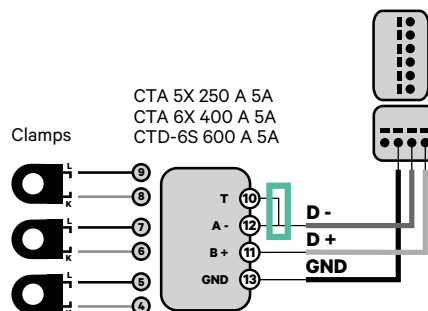
EM 340



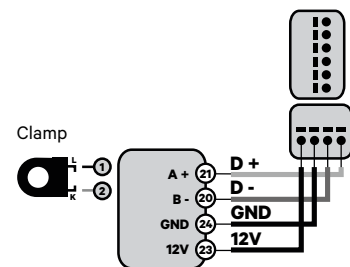
EM 112



EM 330

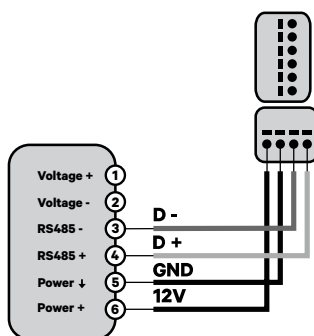


N1 CT

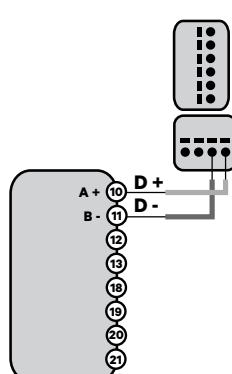


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

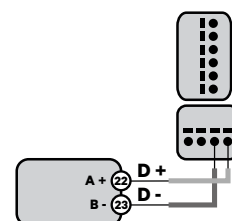
SPM1-100-AC



Pro MOD2



Pro 380 MOD



Important

Remember to check the Compatibility Table of each meter.

INSTALLATION WITH PULSAR MAX

Power Boost and Eco-Smart

Terminating resistance activation and current selector configuration

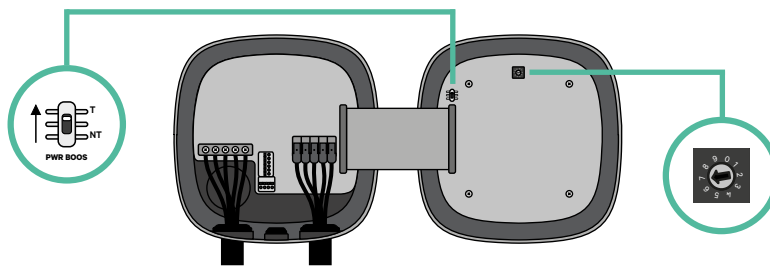
1. Put the PWR BOOS switch into position T.



Important

Only for Pulsar Max Rev A with a Temco clamp, set up the PWR BOOS into NT.

2. Put the rotary switch into a position between 1 and 7, depending on the maximum current that can be supplied from the charging network.



3. See the matrix below. This value must be the lower out of the main switch rated current MCB (not the RCD) and the contracted tariff.

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

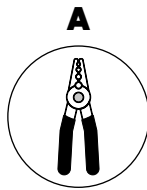
Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubt, contact Wallbox Service.

4. Close the cover of the charger following the instructions in the charger's **Installation Guide**.

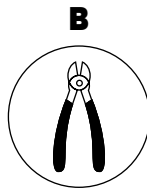
INSTALLATION WITH PULSAR MAX

Power Sharing

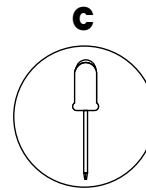
Tools



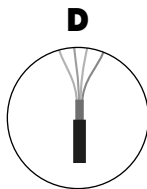
Wire Strippers



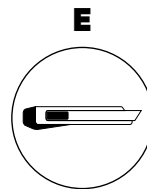
Cutting Pliers



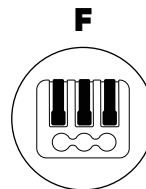
Flat Screwdriver



Connecting cable between
charger and charger
(UTP or STP CAT 5E
250m Max Length)



Cutter



Three pole lever
connectors
(for small
communication
wires)



The installer has the responsibility to decide if the installation requires a UTP or STP 3rd wire to be used as a reference (GND).

Refer to the **Pulsar Max Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH PULSAR MAX

Power Sharing



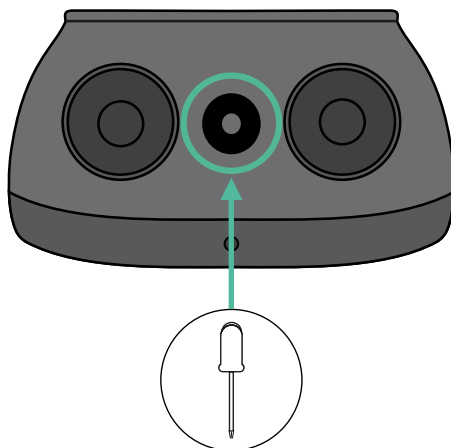
Pulsar Max is not compatible with Pulsar Plus, Commander 2 and Copper SB, so the Power Sharing function must not be used with other chargers.

Before Installation

- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

- 1.** Make a hole at the central grommet, using a small flat screwdriver.

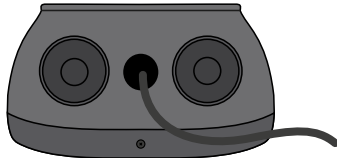


INSTALLATION WITH PULSAR MAX

Power Sharing

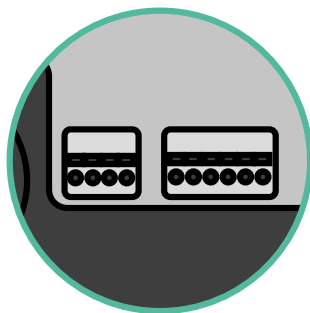
Wiring the system

1. Ensure that the power is turned off during the installation.
2. Insert the communication wire (UTP or STP 5E cable) through the grommet.

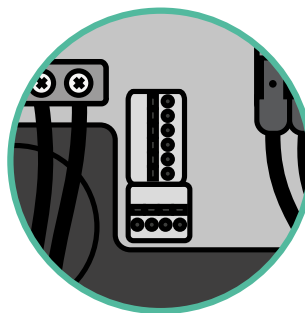


3. Check the position of the 6 pin connector.

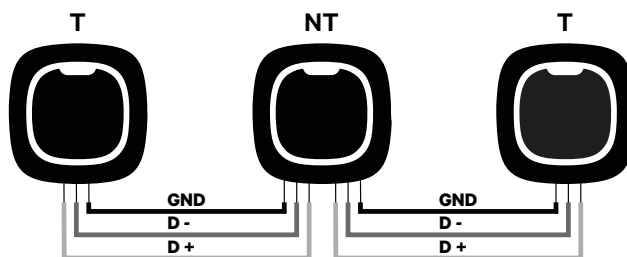
Single Phase



Three phase



4. Once located the connector, start cabling the first charger of the chain. Check the Tools section to check if you need to use a third wire (GND).



Important

- Power sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

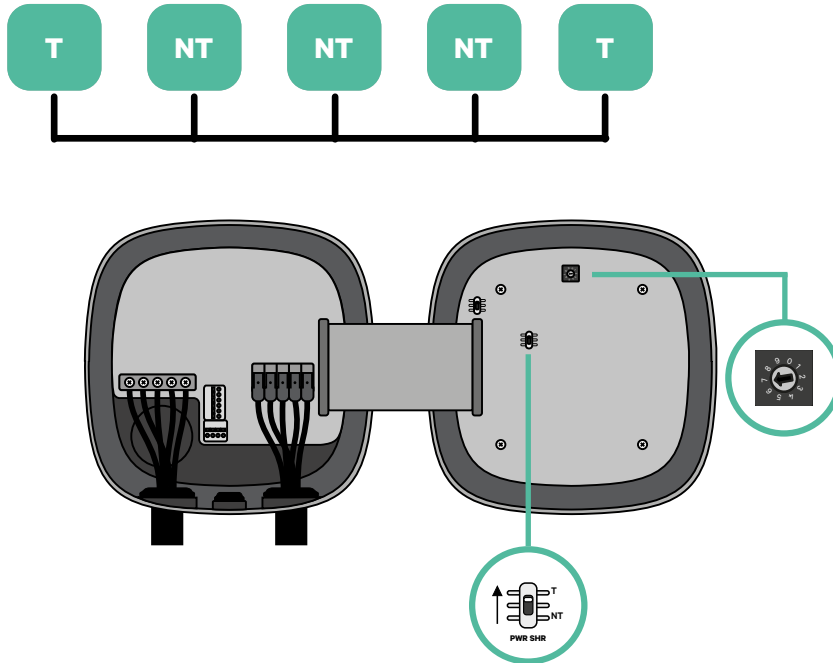
Refer to the **Installation Guide** for more information.

INSTALLATION WITH PULSAR MAX

Wiring the System

Terminating settings

1. Once the cabling is completed, you need to activate the termination resistors. The first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



INSTALLATION WITH PULSAR MAX

Wiring the System

- 2.** Once the termination resistors are set up, place the current selector of each charger following the information. Put the rotary switch into a position between 1 and 7 depending on the maximum current that can be supplied from the charging network.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	R	6	10	13	16	20	25	32	R	R



Important

Make sure that the selector does not point to 0, 8 and 9.

- 3.** Close the cover of your charger by following the instructions in the respective **Installation Guide**.

INSTALLATION WITH PULSAR MAX

Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Pulsar Max charger.
2. Set the terminating resistor PWR SHR into NT, make the communication wiring as explained above and then close the charger.



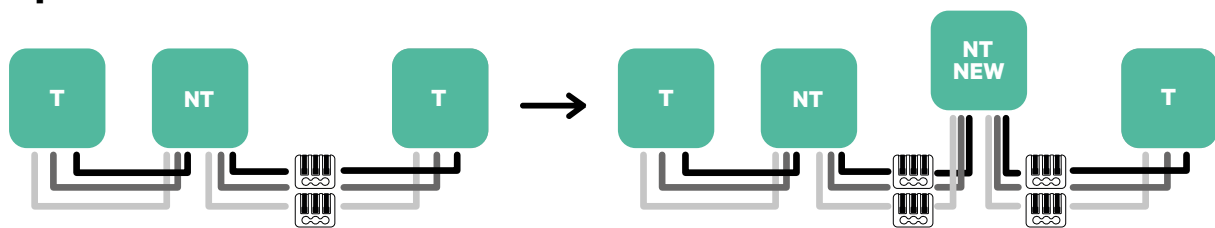
Important

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

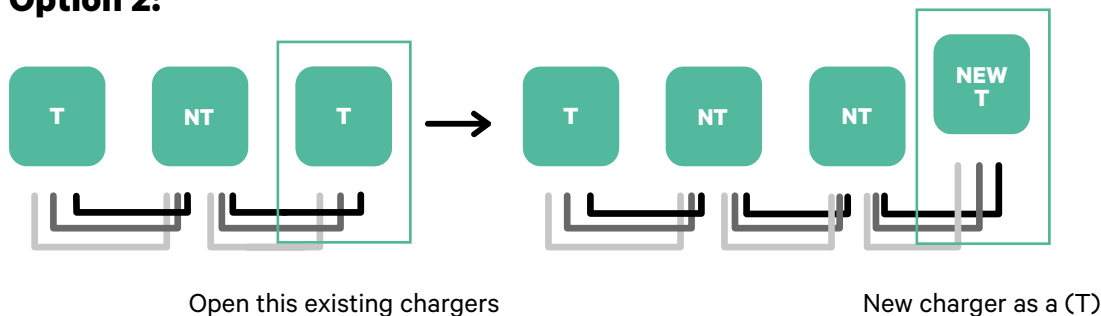
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



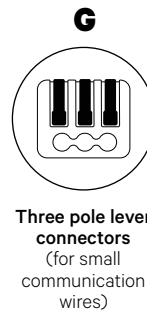
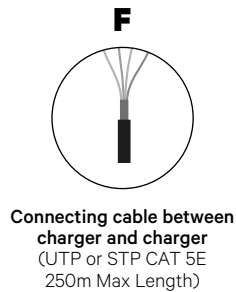
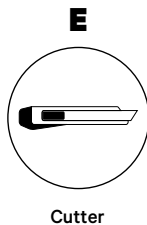
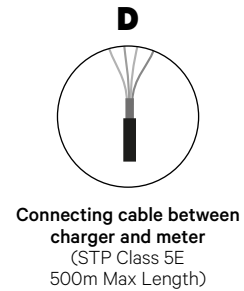
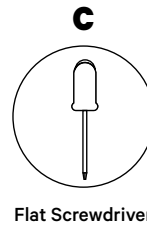
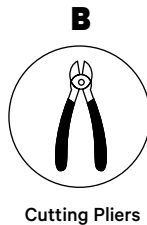
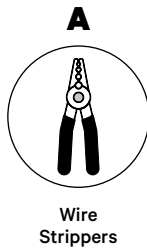
Option 2:



INSTALLATION WITH PULSAR MAX

Dynamic Power Sharing

Tools



The installer has the responsibility to decide if the installation requires a UTP or STP 3rd wire to be used as a reference (GND).

Refer to the **Pulsar Max Installation Guide** to know more about the tools to install the charger.

INSTALLATION WITH PULSAR MAX

Dynamic Power Sharing



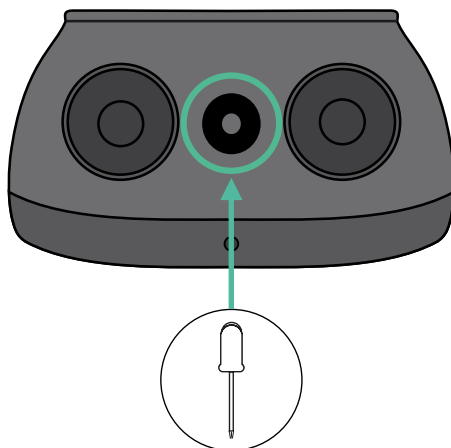
Pulsar Max is not compatible with Pulsar Plus, Commander 2 and Copper SB, so the Dynamic Power Sharing function must not be used with other chargers.

Before Installation

- Ensure that the power is turned off during the installation.
- Separate the communication wires from the power ones.

Preparation

- 1.** Make a hole at the central grommet, using a small flat screwdriver.



INSTALLATION WITH PULSAR MAX

Dynamic Power Sharing

Pulsar Max Installation Guide

Install the charger following the instructions in the **Pulsar Max Installation Guide**.

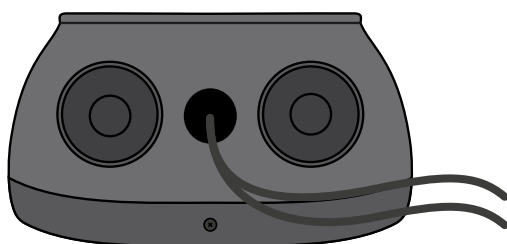


Important

Ensure not to close the cover of the charger.

Communication wiring between the charger and the meter

- 1.** Keep the power turned off during the installation.
- 2.** Insert through the grommet the two communication wires, one for meter communication and the other one for communication between chargers.



- 3.** Install the meter following the instructions in the Meter Wiring Guide included in the package.
- 4.** Wire the meter and the charger by following the relevant scheme below based on the model of your meter.



Important

For the communication with the meter is mandatory to use STP class 5E cable and keep in mind that the communication wiring must not be more than 500 meters.

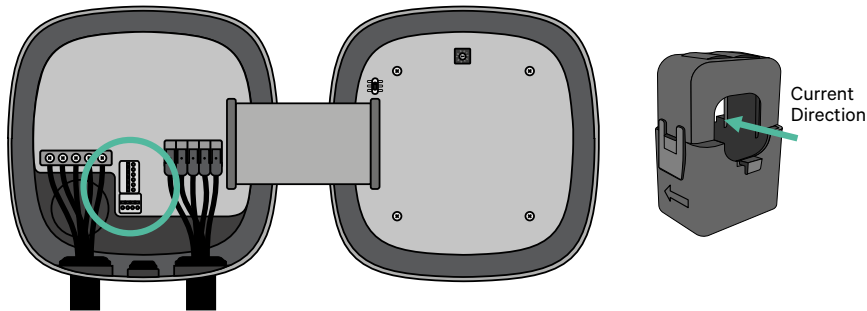


Important

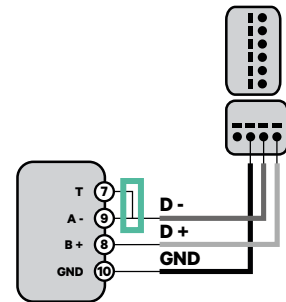
For the communication between chargers is mandatory to use UTP or STP class and keep in mind that all the chargers chain must not be more than 250 meters.

INSTALLATION WITH PULSAR MAX

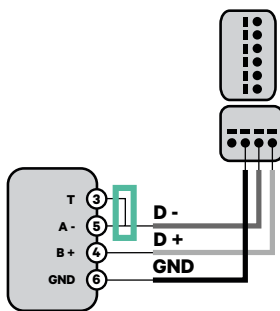
Dynamic Power Sharing



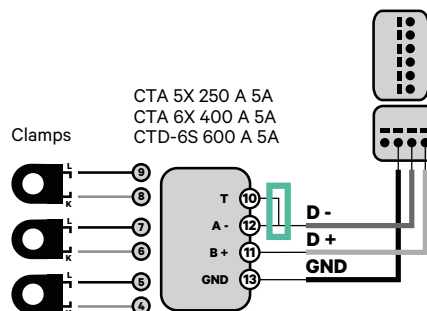
EM 340



EM 112

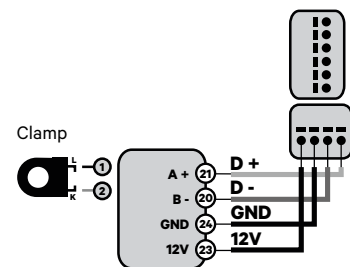


EM 330

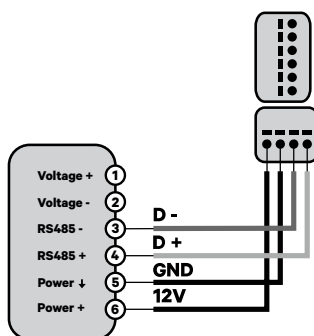


! For the EM330 configuration (only with 400 A and 600 A clamps) refer to the **Appendix**.

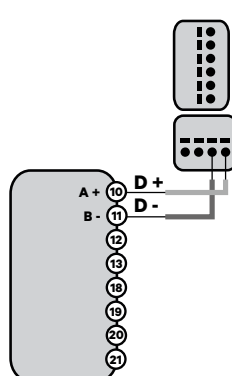
N1 CT



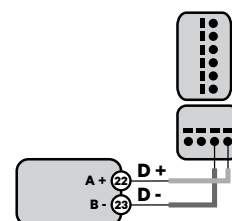
SPM1-100-AC



Pro MOD2



Pro 380 MOD



Important

Remember to check the Compatibility Table of each meter.

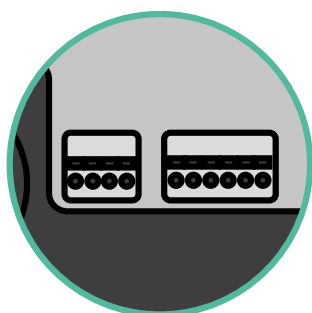
INSTALLATION WITH PULSAR MAX

Dynamic Power Sharing

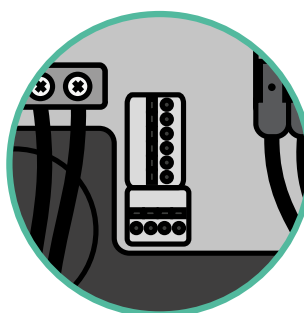
Wiring the system

1. Ensure that the power is turned off during the installation.
2. Check the position of the 6 pin connector.

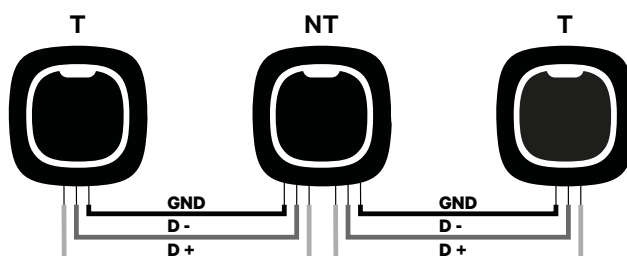
Single Phase



Three phase



4. Once located the connector, start cabling the the first charger of the chain. Check the Tools section to check if you need to use a third cable (GND).



Important

- Dynamic Power Sharing works up to 25 chargers for each installation. Among them, one is primary and 24 are secondary. The maximum distance the communication wiring can reach is 250m.

Note: Only Max Current > 6A per phase is accepted for a correct performance. In case of doubts, contact Wallbox Service.

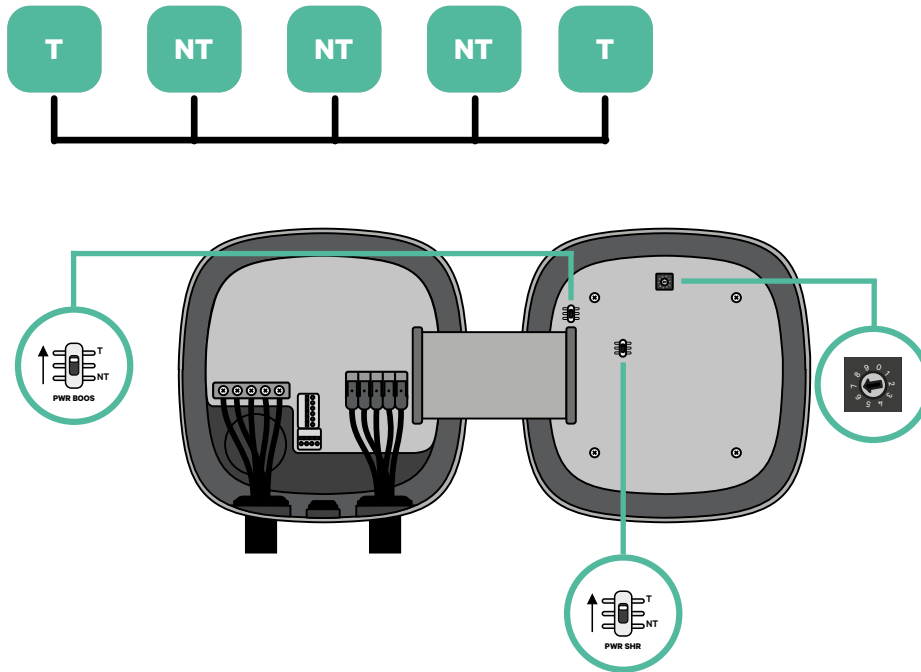
Refer to the **Installation Guide** for more information.

INSTALLATION WITH PULSAR MAX

Dynamic Power Sharing

Terminating settings

1. Once the cabling is complete, you need to activate the terminating resistors. First set up PWR BOOS into T only for the charger that is connected into meter. Then, set up PWR SHR, the first and the last charger will always be terminating (T) with non terminating (NT) chargers between them.



Important

Only for Pulsar Max Rev A with a Temco clamp, set up the PWR BOOS into NT.

INSTALLATION WITH PULSAR MAX

Dynamic Power Sharing

2. Once the termination resistors are set up, place the current selector of each charger following the information. Put the rotary switch into a position between 1 and 7 depending on the maximum current that can be supplied from the charging network.

POSITION	0	1	2	3	4	5	6	7	8	9
MAX CURRENT	R	6	10	13	16	20	25	32	R	R



Important

Make sure that the selector does not point to 0, 8 and 9.

3. Close the cover of your charger by following the instructions in the respective **Installation Guide**.

INSTALLATION WITH PULSAR MAX

Dynamic Power Sharing

Adding chargers in the future:

If you anticipate adding chargers to the system in the future, there are two ways you can prepare the system now to make it ready for Dynamic Power Sharing.

Option 1: Place a bus disconnecter to accommodate future chargers as shown in the option 1 wiring scheme below. This option avoids the need of reopening the existing chargers and hence it is the recommended option.

Option 2: Truncate the existing bus to add new charger(s) as shown in the option 2 wiring scheme below.

1. Open the charger following the installation guide of your Pulsar Max charger.
2. Set the terminating resistor PWR SHR into NT, make the communication wiring as explained above and then close the charger.



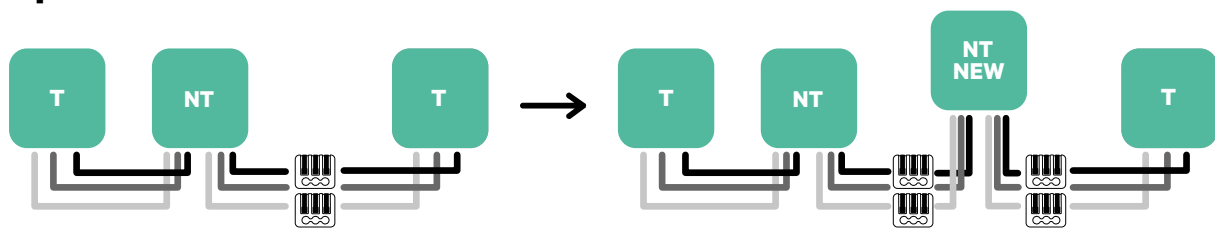
Important

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

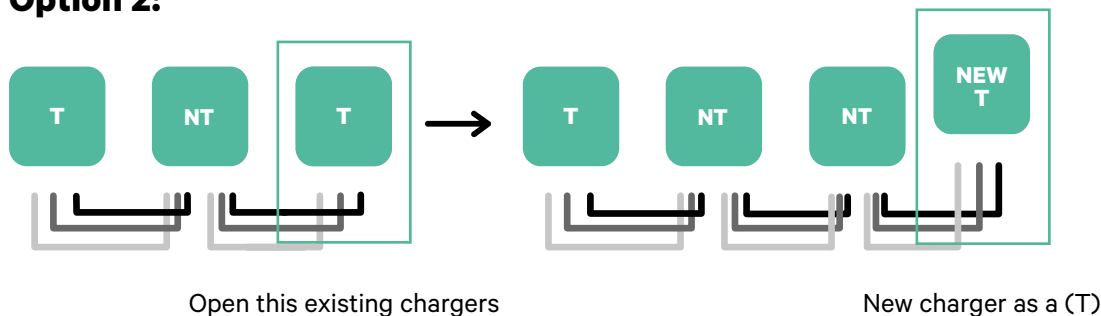
- You maintain the logic of the daisy chain.
- You respect the cabling polarity as described above under “Installation”.

Wherever a future added charger is placed, the most important rule to follow is the logic of the daisy chain. For example, in the image below, the new charger is placed before the Terminating charger on the right side of the daisy chain.

Option 1:



Option 2:



CONFIGURATION

Power Boost

Enabling Power Boost

Follow these steps to activate Power Boost once you have installed your charger and its compatible energy meter:

- 1.** Make sure your Wallbox charger and myWallbox mobile app have the latest version available (you can check its version in your Play Store or App Store).
- 2.** Connect to your charger via Bluetooth.
- 3.** Log into the myWallbox app by filling in your credentials, or [register](#) if you do not have an account yet. If your charger is a Commander 2, you can also configure Power Boost on its touchscreen directly.



CONFIGURATION

Power Boost

- 4.** Select the charger you want to enable Power Boost for and stay within its Bluetooth range during all the following steps. If you did not link your charger to your myWallbox account yet, please follow [these instructions](#) to do so.



- 5.** Once the synchronization between your charger and your App is complete, go to Settings.



CONFIGURATION

Power Boost

6. Then click Upgrades.



7. Click the Power Boost icon.



CONFIGURATION

Power Boost

8. Enable the Power Boost feature by switching the button to the ON position. In the Max current per phase field, specify the main breaker rated current or subscribed current (in amps), whichever is lower. Then, click Accept to enable Power Boost.

Important Only Max Current per phase greater than 6 amps is accepted for correct performance. In case of doubt, contact Wallbox Customer Service.



Troubleshooting steps in case Power Boost icon is not selectable

1. Power off and power on your charger.
2. Check all cables for correct installation.
3. Check if correct cable type is used.
4. Check if switch is settled correctly to “T” or “NT”.
5. Check if your charger [software](#) is up to date.
6. Make sure that you are connected through Bluetooth.

CONFIGURATION

Eco-Smart

Enabling Eco-Smart

Follow these steps to activate Eco-Smart once you have installed your charger and its compatible energy meter:

- 1.** Make sure your Wallbox charger and myWallbox mobile app have the latest version available (you can check its version in your Play Store or App Store).
- 2.** Connect to your charger via Bluetooth.
- 3.** Log into the myWallbox app by filling in your credentials, or [register](#) if you do not have an account yet.



CONFIGURATION

Eco-Smart

- 4.** On the charger screen, select the charger you wish to activate the Eco-Smart feature for. If you did not link your charger to your myWallbox account yet, please follow [these instructions](#) to do so.



- 5.** Once synchronization is complete, tap the cogwheel to access the Settings.

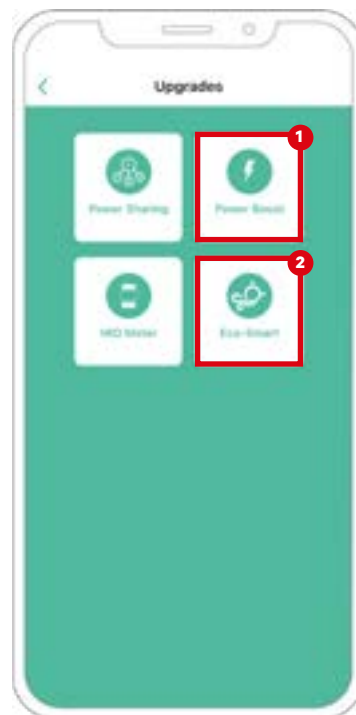


CONFIGURATION Eco-Smart

6. Click Upgrades.



7. It is recommended to activate [Power Boost](#) (1) before enabling Eco-Smart. Once Power Boost is activated tap the Eco-Smart (2) feature to access its settings.



CONFIGURATION

Eco-Smart

- 8.** Tap “Let’s start” to start using Eco-Smart.



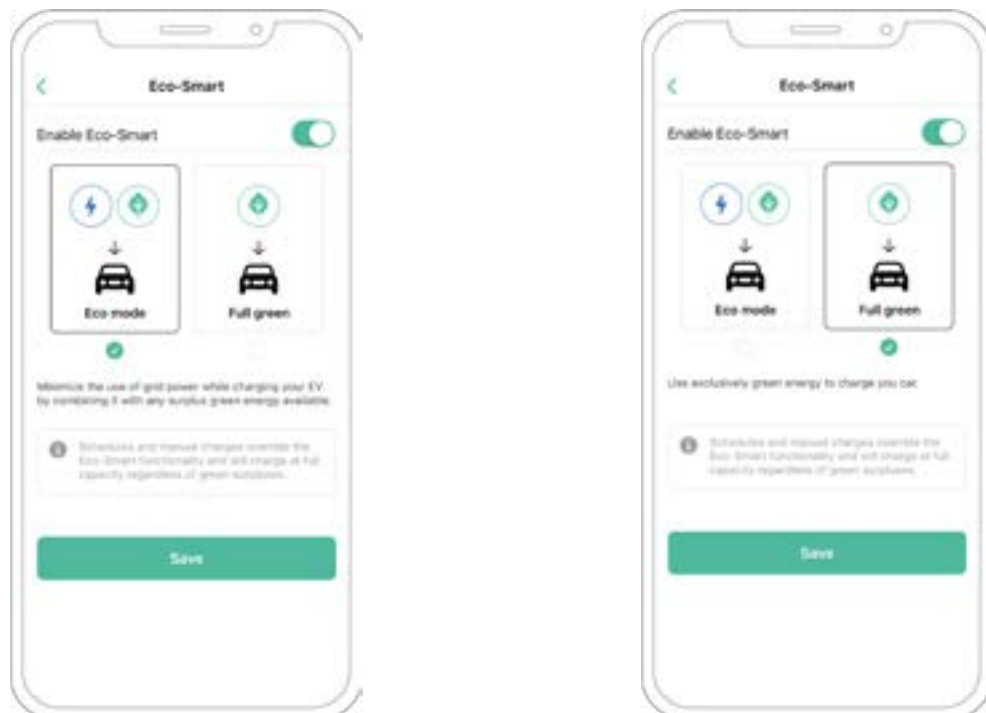
- 9.** Enable the Eco-Smart feature by switching the button to the ON position.



CONFIGURATION

Eco-Smart

- 10.** You now have a choice to select two Eco-Smart modes. Select the mode that you wish to use, Eco or Full-Green.



- 11.** Then click Save. The Eco-Smart feature is now activated with the mode you have selected.

Troubleshooting steps in case the Eco-Smart icon is not selectable

1. Power off and power on your charger.
2. Check all the cables for correct installation.
3. Check if the correct cable type is used.
4. Check if the switch is settled correctly to “T” or “NT”.
5. Check if your charger [software](#) is up to date.
6. Make sure that you are connected using Bluetooth.

CONFIGURATION

V2H

Enabling Vehicle to Home

Follow these steps to activate Vehicle to Home for your Quasar:

- 1.** Make sure your Wallbox charger and myWallbox mobile app have the latest version available (you can check its version in your Play Store or App Store).
- 2.** Connect to your charger via Bluetooth.
- 3.** Log into the myWallbox app by filling in your credentials, or [register](#) if you do not have an account yet.



CONFIGURATION V2H

- 4.** Select your charger and stay within its Bluetooth range during all the following steps. If you did not link your charger to your myWallbox account yet, please follow [these instructions](#) to do so.
- 5.** To activate Vehicle to Home, you will first need to enable Power Boost. Please refer to the [Power Boost article](#) to learn how to activate it.



CONFIGURATION V2H

6. Once you have configured Power Boost properly and the synchronization between the charger and the app is complete (the charging wheel turns green), go to Settings.

7. Click Upgrades.



CONFIGURATION V2H

8. Then click Vehicle to Home.

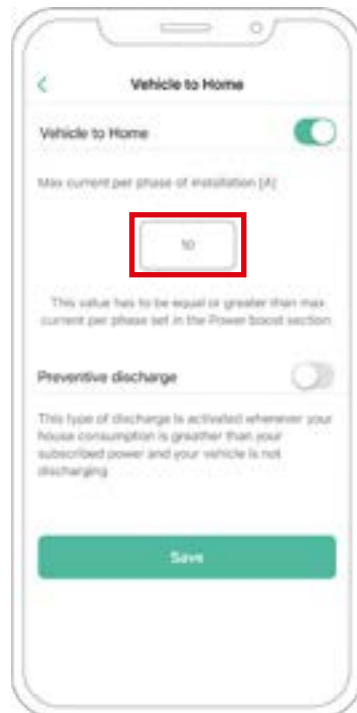


9. Enable the Vehicle to Home feature by switching the button to the ON position.

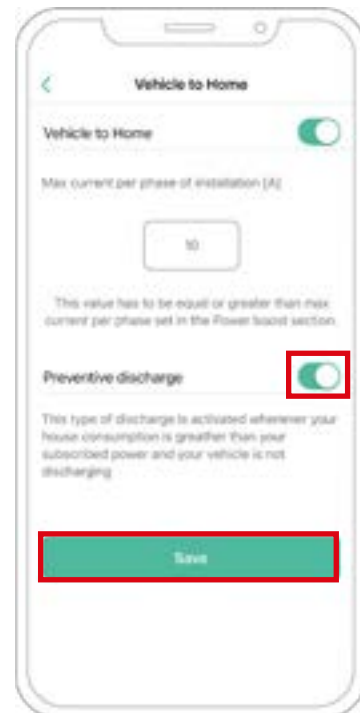


CONFIGURATION V2H

- 10.** In Max Current per phase of installation (in amps), specify the main breaker rated current. The value specified has to be equal to or greater than the MAX. CURRENT PER PHASE (in amps) set for Power Boost. Click Save.

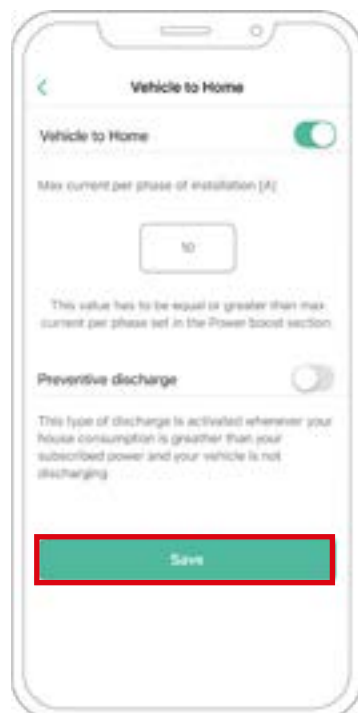


- 11. CASE 1:** If Max Current per phase of the installation is greater than Power Boost current, you need to turn on the Preventive discharge feature. Once done, click SAVE and Vehicle to Home will be fully configured.

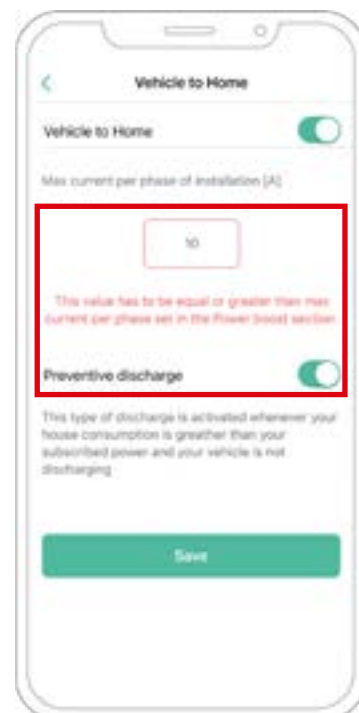


CONFIGURATION V2H

- 11. CASE 2:** If Max Current per phase set in Vehicle to Home is equal to Power Boost current per phase, just click SAVE and Vehicle to Home will be activated.



- 11. CASE 3:** If Max Current per phase of installation set in Vehicle to Home is lower than Power Boost current per phase, you will not be able to save this configuration and an error message will display. Set a value greater or equal to Power Boost current per phase to enable Vehicle to Home.



Troubleshooting steps in case the Vehicle to Home icon is not selectable

1. Power off and power on your charger.
2. Check all cables for correct installation.
3. Check if the correct cable type is used.
4. Check if the switch is settled correctly to “T” or “NT”.
5. Check if your charger [software](#) is up to date.
6. Make sure that you are connected through Bluetooth.

CONFIGURATION

Power Sharing

Enabling Power Sharing

Follow these steps to activate Power Sharing for your charger:

Important iOS can't be used when configuring Power Sharing.

- 1.** Make sure your Wallbox charger and myWallbox mobile app have the latest version available (you can check its version in your Play Store).
- 2.** Connect to your charger via Bluetooth.
- 3.** Log into the myWallbox app by filling in your credentials, or [register](#) if you do not have an account yet.



CONFIGURATION

Power Sharing

- 4.** With **Pulsar Plus**, **Commander 2** and **Copper SB** select the primary charger of the chain and stay within its Bluetooth range during all the following steps. With **Pulsar Max**, select any charger of the chain. If you did not link your charger to your myWallbox account yet, please follow [these instructions](#) to add your charger.



- 5.** Once your charger and myWallbox App are synchronized (the charging wheel will turn green on your app), go to Settings.



CONFIGURATION

Power Sharing

6. Click Upgrades.



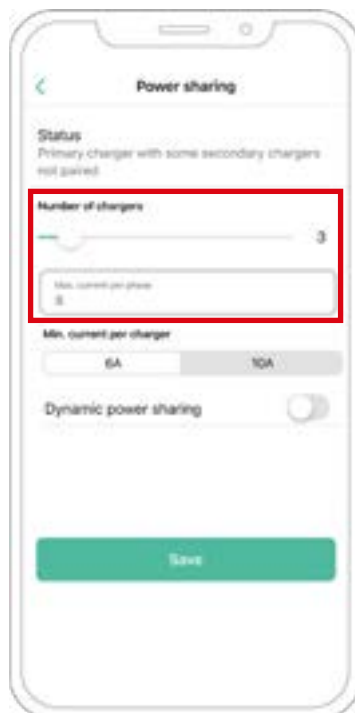
7. Then click the Power Sharing icon.



CONFIGURATION

Power Sharing

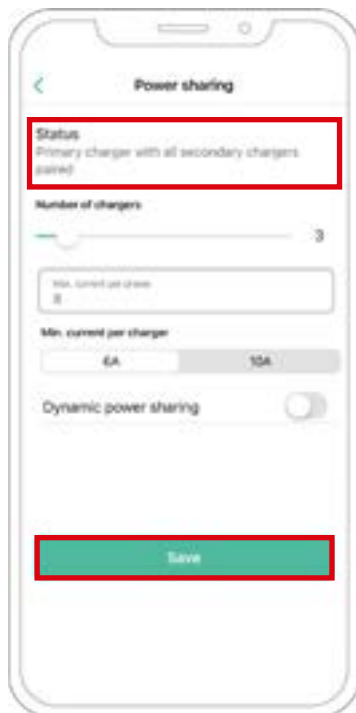
- 8.** Indicate the Number of chargers that are present on the installation. In the Max. current per phase field, specify the max. rated current of the protection installed (MCB) to protect all chargers installation. Please note that only maximum current per phase greater than 6 amps is accepted for correct performance. In case of doubt, contact Wallbox Service.
- 9.** Define the Min. current per charger (in amps) that each charger will operate.



CONFIGURATION

Power Sharing

- 10.** Once you go through all the steps, click Save and ensure that the status “Primary charger with all secondary chargers paired” appears.



Troubleshooting steps in case the Power Sharing icon is not selectable

1. Power off and power on your charger.
2. Check all cables for correct installation.
3. Check if the correct cable type is used.
4. Check if the switch is settled correctly on “T” or “NT”.
5. Check if your charger [software](#) is up to date.
6. Make sure that you are connected through Bluetooth.

CONFIGURATION

Dynamic Power Sharing

Enabling Dynamic Power Sharing

Important iOS can't be used when configuring Dynamic Power Sharing.

- 1.** Make sure your Wallbox charger and myWallbox mobile app have the latest version available (you can check its version in your Play Store)
- 2.** Connect to your charger via Bluetooth.
- 3.** Log into the myWallbox app by filling in your credentials, or [register](#) if you do not have an account yet. If your charger is a Commander 2, you can also configure Dynamic Power Sharing on its touchscreen directly.



CONFIGURATION

Dynamic Power Sharing

- 4.** Select the charger that is connected to the meter and stay within its Bluetooth range during all the following steps. If you did not link your charger to your myWallbox account yet, please follow [these instructions](#) to do so.



- 5.** Once your charger and myWallbox App are synchronized, go to Settings.



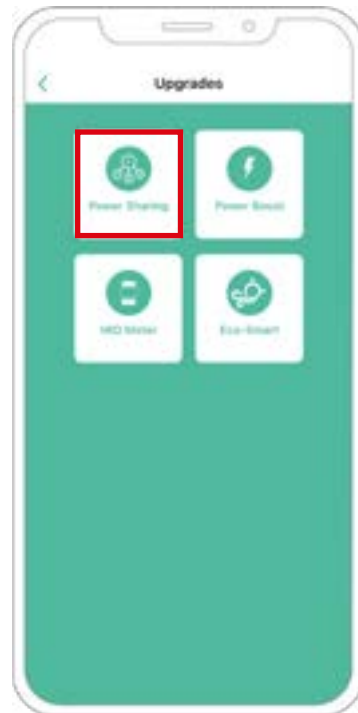
CONFIGURATION

Dynamic Power Sharing

6. Click Upgrades.



7. Click the Power Sharing icon.



CONFIGURATION

Dynamic Power Sharing

- 8.** Indicate the Number of chargers present on the installation.
In the Max. current per phase field, specify the max. rated current of the protection installed (MCB) to protect all chargers installation. Please note that only Max. current per phase greater than 6 amps is accepted for correct performance. Contact Wallbox Service in case of doubts.
- 9.** Define the Min. current per charger (in amps) that each charger will operate.

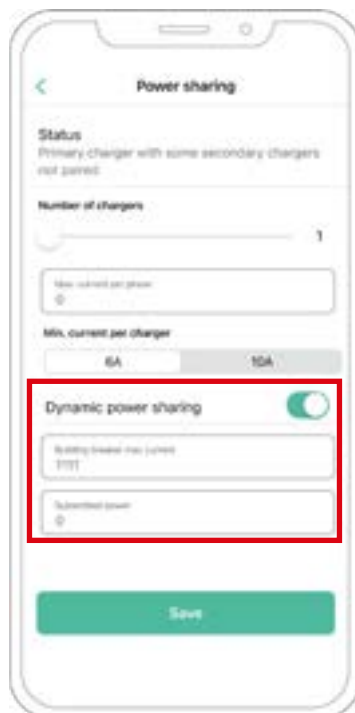
The screenshot shows the 'Power sharing' configuration screen. The 'Number of chargers' field is highlighted with a red box and set to 1. Below it, the 'Max. current per phase' field is also highlighted with a red box. The 'Min. current per charger' section shows a slider between 6A and 10A, with 6A selected. The 'Dynamic power sharing' toggle is turned on. At the bottom is a green 'Save' button.

The screenshot shows the 'Power sharing' configuration screen. The 'Number of chargers' field is set to 1. The 'Max. current per phase' field is highlighted with a red box. The 'Min. current per charger' section shows a slider between 6A and 10A, with 10A selected. The 'Dynamic power sharing' toggle is turned on. At the bottom is a green 'Save' button.

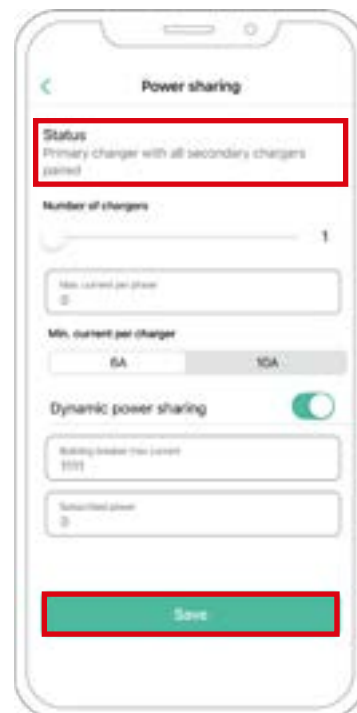
CONFIGURATION

Dynamic Power Sharing

- 10.** Turn on Dynamic Power Sharing. Specify the Building breaker max current (in amps) and the Subscribed power (in kVa).



- 11.** Click Save and ensure that the status “Primary charger with all secondary chargers paired” appears.



Troubleshooting steps in case the Power Sharing icon is not selectable

1. Power off and power on your charger.
2. Check all cables for correct installation.
3. Check if the correct cable type is used.
4. Check if the switch is settled correctly on “T” or “NT”.
5. Check if your charger [software](#) is up to date.
6. Make sure that you are connected through Bluetooth.

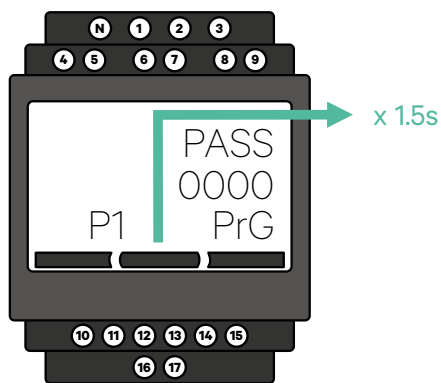
Appendix

INSTALLATION WITH PULSAR PLUS,
COMMANDER 2, QUASAR AND COPPER SB

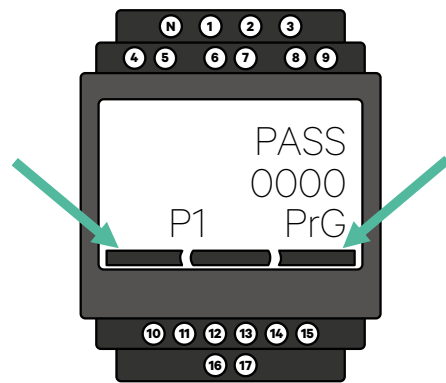
Applicable to Power Boost, Eco-Smart, V2H, Dynamic Power Sharing

EM330 Configuration (Only for 400 A and 600 A clamps)

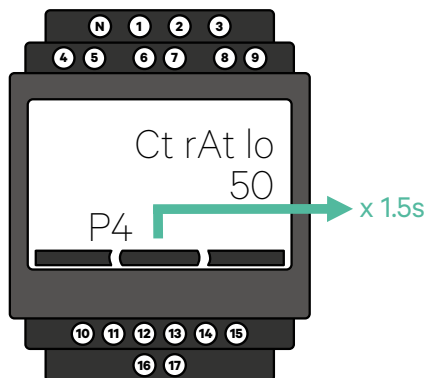
- 1.** Press the button in the middle for 1.5 seconds to enter the password confirmation screen.



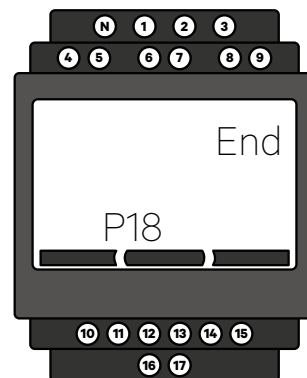
- 2.** The pre-defined password is 0000. Just press the left and the right button at the same time to confirm.



- 3.** Use the right and the left button for scrolling up and down the menu. Scroll up to the “Ct rAt lo” menu. Press the button in middle for 1.5 second to be able to modify the value using the left and the right button. Set it to 80 for the 400 A clamp or set it to 120 for the 600 A clamp. Press the button in middle to confirm the value.



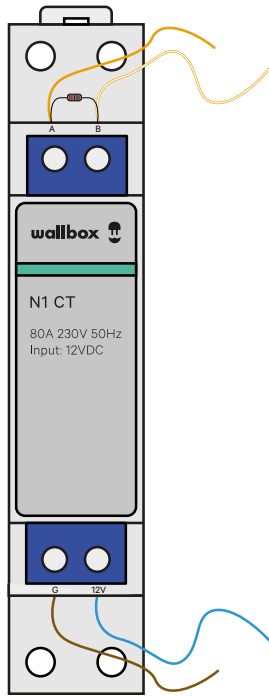
- 4.** Scroll down to the “end” option and press enter to exit the programming menu.



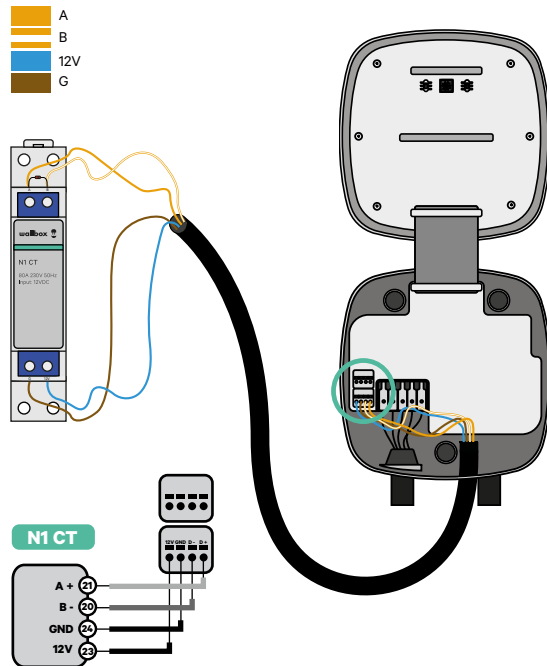
INSTALLATION WITH PULSAR PLUS, COMMANDER 2, COPPER SB, PULSAR MAX AND QUASAR

How to install N1 CT

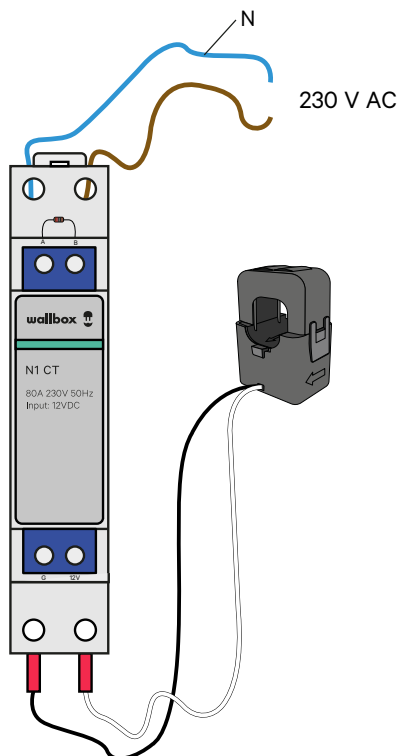
1.



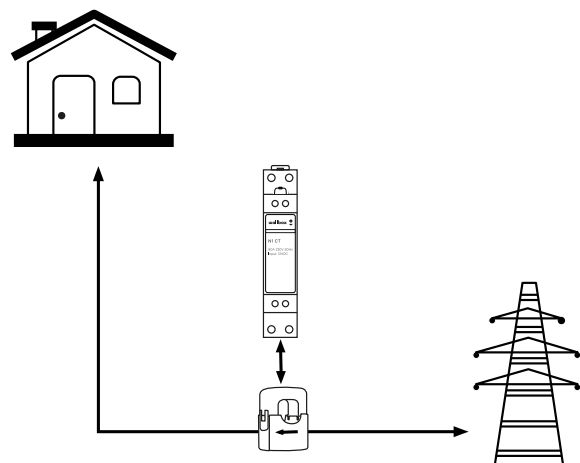
2.



3.



4.





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