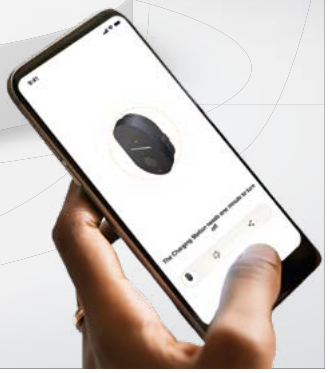
INSTALLER GUIDE

GREEN'UP HOME

CHARGING STATIONS



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LEGRAND
SUPPORTS YOU ON ALL YOUR PROJECTS

LEGAL INFORMATION

Presentation pictures do not always include Personal Protective Equipment (PPE), but this is a legal and regulatory obligation that must be scrupulously respected.

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations without notice. All illustrations, descriptions and technical information included in this document are provided as indications and cannot be held against Legrand.

summary

GREEN'UP HOME CHARGING STATIONS

SAFETY INSTRUCTIONS

Any failure to strictly apply the procedures and to respect these recommendations, could lead to serious risk of accident, endangering people and property (in particular, without limitation, risk of burns, electric shocks, etc.).

General information

- Use only the products and accessories recommended by the Legrand Group in the catalogue, instructions, technical data sheets and all other documents provided by Legrand (hereinafter referred to as «the Documentation») in compliance with the installation rules.

Improper installation and/or use may result in the risk of arcing in the enclosure, overheating or fire. The enclosures must be used under normal conditions, they must not be subjected to Voltage / Current / Temperature values other than those specified in the Documentation.

- Legrand declines all responsibility for any modification or repair of the equipment making up the enclosure that is not authorized by the Legrand Group, as well as any failure to comply with the rules and recommendations specified by Legrand in the Documentation. In addition, in the cases mentioned above, the warranty granted by Legrand will not be applicable.
- It is necessary to check that the characteristics of the products are appropriate for their environment and use during maintenance operations, and to refer to the Documentation.
- If you have any questions or require clarification, please contact Legrand Group.

Protection/security

- The installation, use and maintenance of the enclosures and their components must be carried out by qualified, trained and authorized personnel, in accordance with the regulations in force in each country..
- People working on the installation must have the appropriate electrical authorizations for the work to be carried out.
- Wear the PPE (Personal Protective Equipment) necessary towork on live products.

- Respect the safety rules related to electrical work.
- Improper electrical and mechanical use of equipment can be dangerous and may result in personal injury or damage to property.

Maintenance

- Depending on the maintenance operations to be carried out, partial or total power cuts of the enclosure concerned should be planned before any work.
- When performing operations that involve access to the inside of the enclosure, be aware of the risk of burns before touching any products or metal parts.
- Before turning the power back on, make sure that there are no foreign bodies and that all physical protections have been put back in place (e.g.: screens, covers, faceplates).

Risk of electric shock, burns and explosion.

The rules and recommendations in this document are based on our knowledge of the typical conditions of use of our products in the fields of application usually encountered. However, it is always the customer's responsibility to verify and validate that Legrand products are suitable for its installation and use.

The customer must ensure proper installation, maintenance and operation of the equipment to avoid any risk of injury to personnel or damage to property in the event of product failure, especially for applications that require a very high level of safety (e.g., those in which the failure of a component may endanger human life or health).

The rules for storage, handling, installation and maintenance and the appropriate precautions and warnings must be strictly observed and applied

GREEN'UP HOME

CHARGING STATIONS FOR ELECTRIC VEHICLES

A new connected charging station, recommended for individual residential installations or small commercial premises. Available in 2 versions : with or without attached cable

Its sleek design and robustness allow it to be easily installed indoors or outdoors

IP55 - IK10
Single-phase or three-phase charging stations

Possibility to wrap the cable directly around the charging station

Override button: stopping/overriding and first start

LED strip indicating the charging status
- green: charging station ready to charge
- blue: charging station ready to charge and awaiting authorisation (programming etc)
- red: faulty
- off: not powered / stand-by

1 charging point but 3 types of load available:
- T2S socket for Mode 3 load
- Type F reinforced socket for Mode 2 load
- with attached cable with T2 plug for Mode 3 load

Connectivity
- Bluetooth
- Wi-Fi
- Ethernet cable

Natively compatible with the Internet router and Home + Control App
(does not require ant gateway)

The Home + Control App is completely free and available from The App Store and Google Play:

Download on the App Store

GET IT ON Google Play

FUNCTIONS AND INSTALLATIONS (PREREQUISITES)

CONNECTED MODE

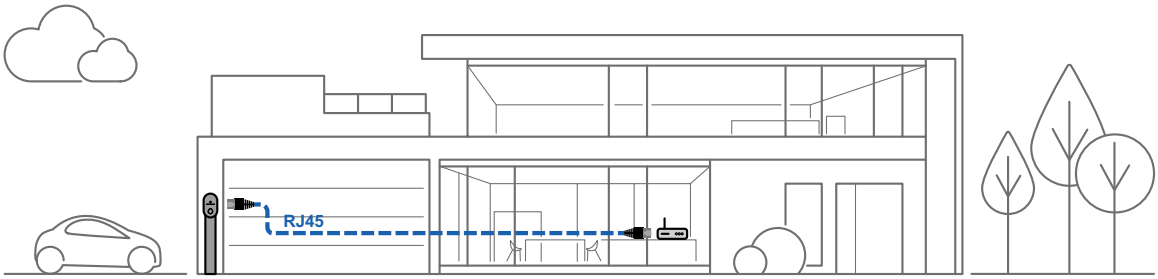
For standard charging use and the ability to meet remote control and consumption management needs via the Home + Control App

No maintenance required on the firmware: automatic updates via the Home + Control App.

Possibility to integrate the Green'up charging station into the Legrand smart home "with Netatmo" ecosystem.

Example of installation via a private Internet access point by Wi-Fi.

Example of installation via a private Internet access point by Ethernet cable



STAND ALONE

For standard charging use and the ability to manage updates via Bluetooth with a smartphone

Updating the charging station in this configuration (non-connected charging station) requires at least access to a 4G/5G, Wi-Fi, or IP connection with the smartphone.

KEY POINTS

Here are some guidelines to follow for an installation that complies with our manufacturer's recommendations:
- Ethernet cable maximum length : 100 m with Ethernet cable category 5 F/UTP minimum recommended
- Wi-Fi signal required for proper operation of the charging station in connected mode: residential and private Wi-Fi, (not compatible with open Hotspot networks).
Frequency band 2.4 GHz. Range 100 m in open field.
- Bluetooth signal range: 10 m

GREEN'UP HOME
CHARGING STATIONS FOR ELECTRIC VEHICLES

The range

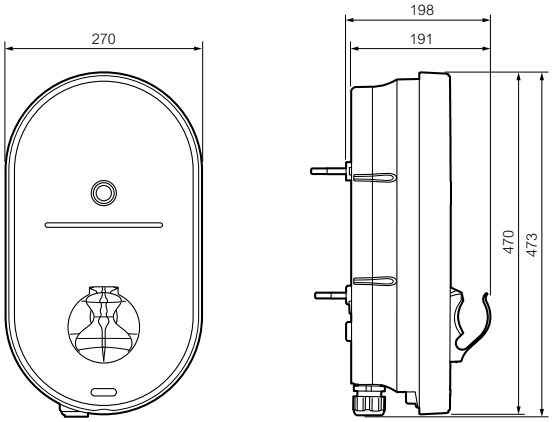
Robust and connected terminals for safely charging all types of electric and plug-in hybrid vehicles:

- available in versions with an attached charging cable or charging socket, the charging stations adapt to all rechargeable vehicles,
- different power levels for all uses: single-phase or three-phase with adjustable intensity,
- A 6 mA DC leakage current detection device integrated into all charging stations.

CHARGING STATION WITH ATTACHED CABLE VERSION

With or without integrated RCBO protection.

Power setting	State on delivery		Type of load	Pedestal for floor fixing (to be ordered separately)
	Type of protection	Cable glands	Mode 3 Cable attached 	
Single-phase 7.4 kW - 32A	Equipped with: 32 A 30 mA Ph+N RCBO and shunt trip	Supplied mounted - ISO 32 4-entry cable gland - ISO 25 cable gland (charging cable) + - ISO 25 cable gland to be mounted (for power supply)	0 570 51	0 570 57
	Without protection		0 570 41	
Three-phase 22 kW - 32 A	Equipped with: 32 A 30 mA 4P RCBO and shunt trip	Supplied mounted - ISO 32 4-entry cable gland - ISO 25 cable gland (charging cable) + - ISO 32 cable gland to be mounted (for power supply)	0 570 52	0 570 57
	Without protection		0 570 42	



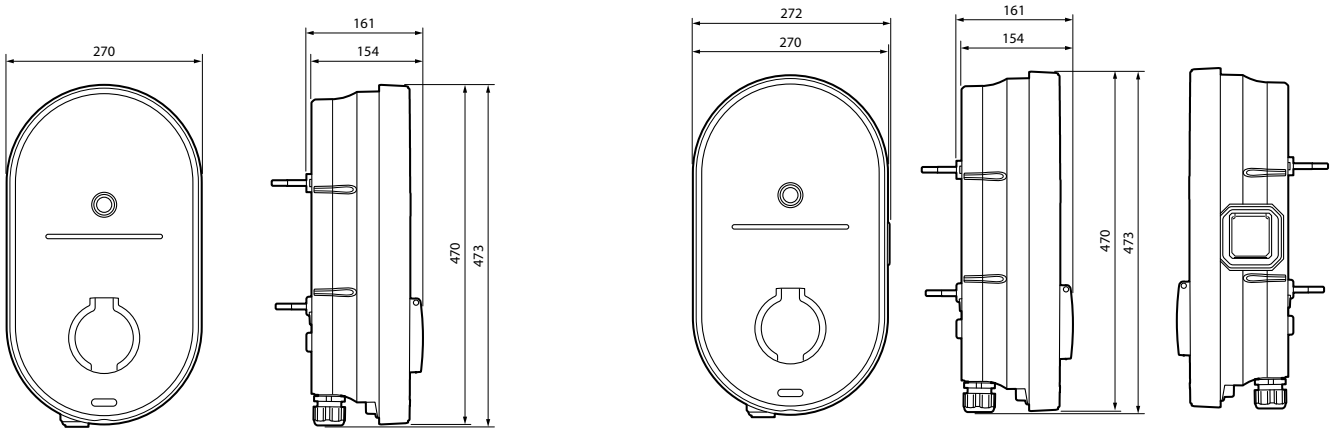
ISO 32 4-entry cable gland
+ ISO 25 cable gland (charging cable)
+ ISO 25 cable gland
(to be mounted for power supply)

Green'UP HOME charging stations comply with EV Ready 2.0 requirements.

CHARGING STATION EQUIPPED WITH SOCKETS VERSION

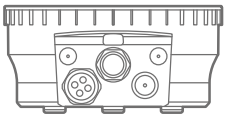
Delivered without RCBO protection, to be integrated into the electrical panel according to the selected power (p. 16) and the installation standard (p. 17).

Power setting	Cable glands	Type of load: Mode 3 socket	Type of load: Mode 2 + Mode 3 sockets	Pedestal for floor fixing (to be ordered separately)
Single-phase 7.4 kW - 32A	Supplied mounted - ISO 32 4-entry cable gland - ISO 25 cable gland + - ISO 25 membrane gland to be mounted	0 570 21	0 570 35	0 570 57
Three-phase 22 kW - 32 A	Supplied mounted - ISO 32 4-entry cable gland - ISO 25 cable gland + - ISO 32 cable gland to be mounted	0 570 22	0 570 37	0 570 57



Charging stations details

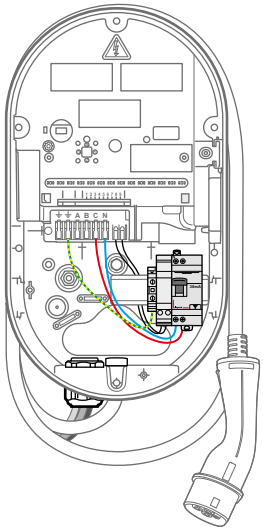
7.4 KW SINGLE-PHASE CHARGING STATIONS WITH ATTACHED CABLE



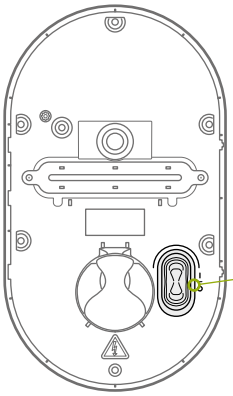
Charging stations Cat.Nos 0 570 41/51 are delivered with cable glands mounted:
- 1 ISO 32 4-entry cable gland for communication cables
- 1 ISO 25 cable gland for charging cord
- 1 ISO 25 cable gland to be mounted for power supply cable

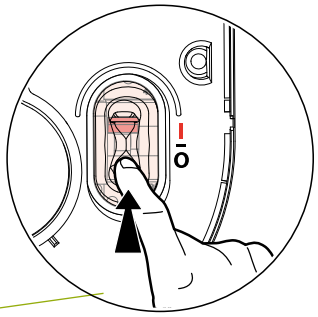
The positioning of the cable glands can be changed (see p. 14).
However, it is recommended not to modify the location of the 4-entry cable gland as its position allows the optimal wiring of the charging station

Cat.No 0 570 51 (with protection)



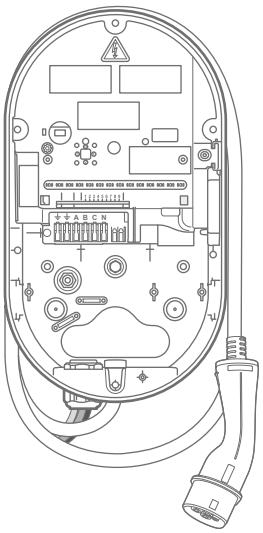
With integrated protection:
- 32 A 30 mA Ph+N Type F RCBO
- 1 shunt trip



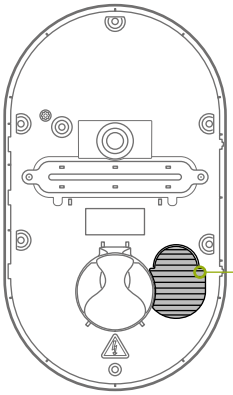


Flexible protection membrane to operate the RCBO lever

Cat.No 0 570 41 (without protection)

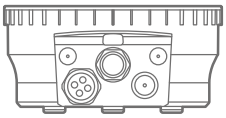


To be equipped with a protection device according to the selected power (p. 16) and the installation standard (p. 17)



Blanking plate

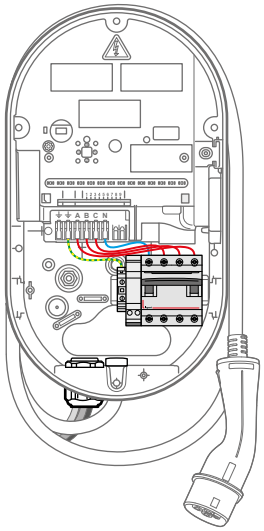
22 KW THREE-PHASE CHARGING STATIONS WITH ATTACHED CABLE



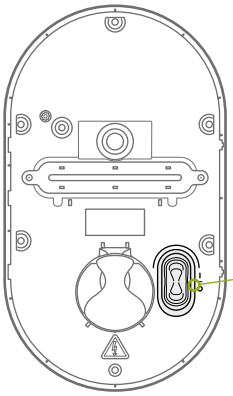
Charging stations Cat.Nos 0 570 42/52 are delivered with cable glands mounted:
- 1 ISO 32 4-entry cable gland for communication cables
- 1 ISO 25 cable gland for charging cord
- 1 ISO 32 cable gland to be mounted for power supply cable

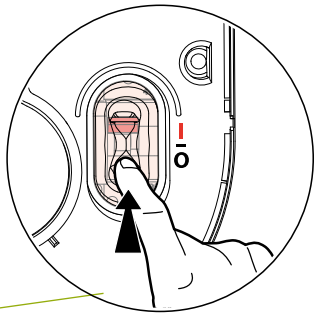
The positioning of the cable glands can be changed (see p. 14).
However, it is recommended not to modify the location of the 4-entry cable gland as its position allows the optimal wiring of the charging station

Cat.No 0 570 52 (with protection)



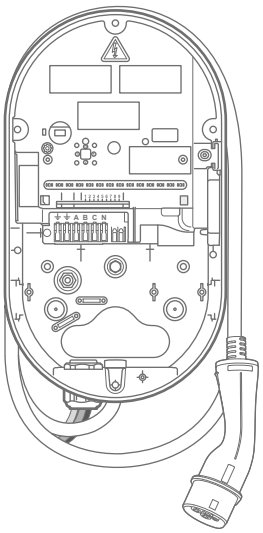
With built-in protection:
- 32 A 30 mA 4P Type F RCBO
- 1 shunt trip



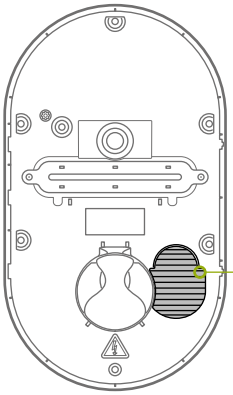


Flexible protection membrane to operate the RCBO lever

Cat.No 0 570 42 (without protection)

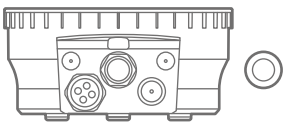


To be equipped with a protection device according to the selected power (p. 16) and the installation standard (p. 17)



Blanking plate

Charging stations details

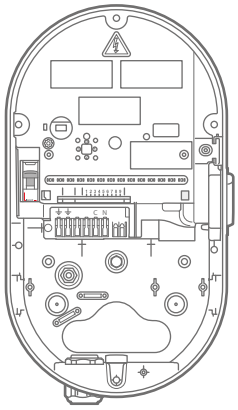


Charging stations Cat.Nos 0 570 35/21 are delivered with cable glands mounted:
- 1 ISO 32 4-entry cable gland for communication cables
- 1 ISO 25 cable gland for power supply cable
- 1 ISO 25 membrane gland is supplied not mounted to blank an entry if necessary

The positioning of the cable glands can be changed (see p. 14).
However, it is recommended not to modify the location of the 4-entry cable gland as its position allows the optimal wiring of the charging station

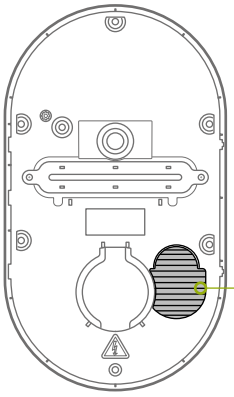
7.4 KW SINGLE-PHASE CHARGING STATION WITH MODE 2 + MODE 3 SOCKETS

Cat.No 0 570 35



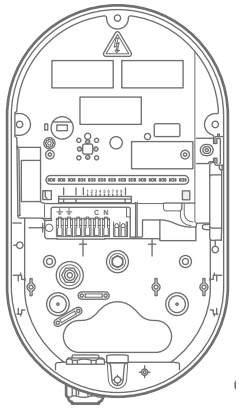
To be equipped with a protection device according to the selected power (p. 16) and the installation standard (p. 17)

Equipped with a pre-wired 20 A protection circuit breaker for the protection of the Type F socket.

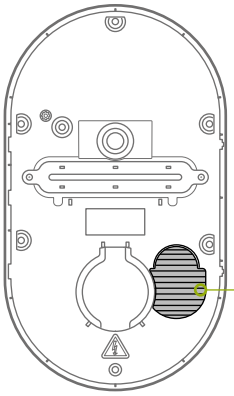


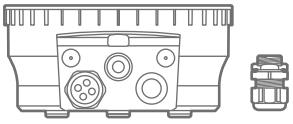
7.4 KW SINGLE-PHASE CHARGING STATION WITH MODE 3 SOCKET

Cat.No 0 570 21



To be equipped with a protection device according to the selected power (p. 16) and the installation standard (p. 17)



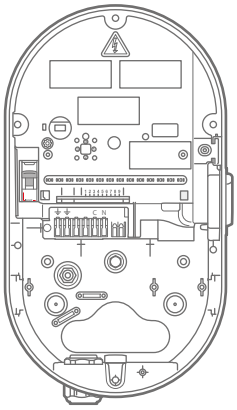


Charging stations Cat.No 0 570 37/22 are delivered with cable glands mounted:
- 1 ISO 32 4-entry cable gland for communication cables
- 1 ISO 25 cable gland for power supply cable
- 1 ISO 32 cable gland supplied not mounted

The positioning of the cable glands can be changed (see p. 14).
However, it is recommended not to modify the location of the 4-entry cable gland as its position allows the optimal wiring of the charging station

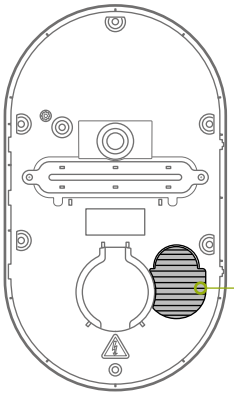
22 KW THREE-PHASE CHARGING STATION WITH MODE 2 + MODE 3 SOCKET

Cat.No 0 570 37



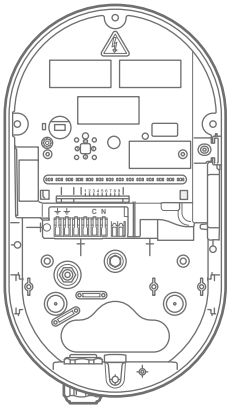
To be equipped with a protection device according to the selected power (p. 16) and the installation standard (p. 17)

Equipped with a pre-wired 20 A protection circuit breaker for the protection of the Type F socket.

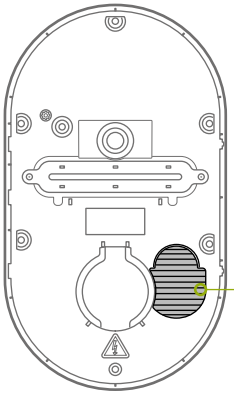


22 KW THREE-PHASE CHARGING STATION WITH MODE 3 SOCKET

Cat.No 0 570 22



To be equipped with a protection device according to the selected power (p. 16) and the installation standard (p. 17)



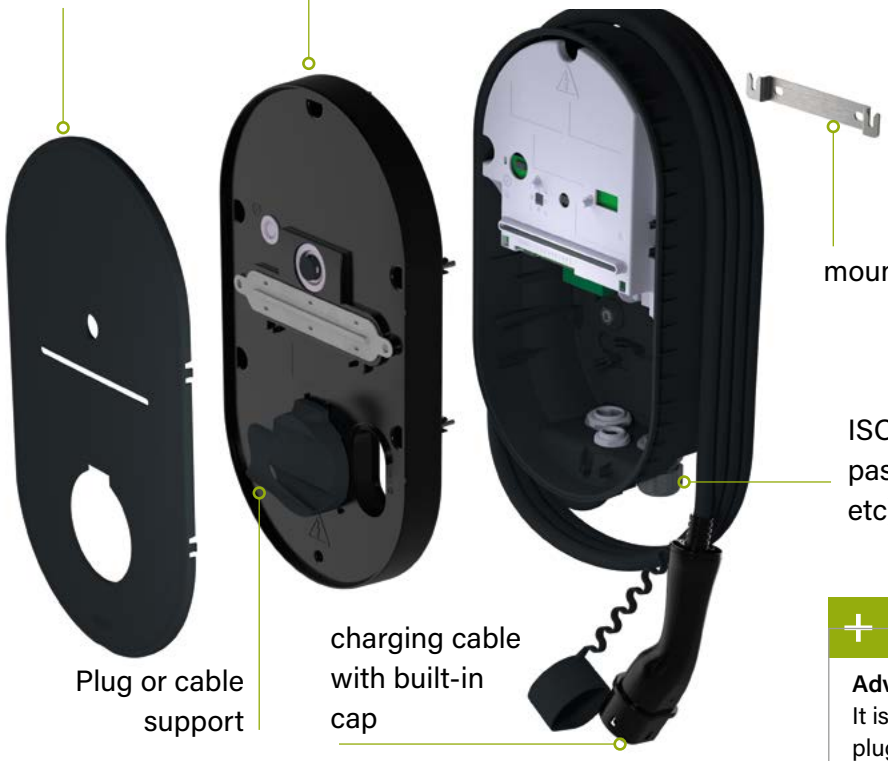
INSTALLATION

GENERAL INFORMATION

The Green'UP HOME electric vehicle charging station is simple and quick to install.
2 options:
- Wall installation with only 3 screws (not provided, to be adapted according to the wall type),
- Floor installation on a pedestal (see the pedestal manual Cat.No 0 570 57).

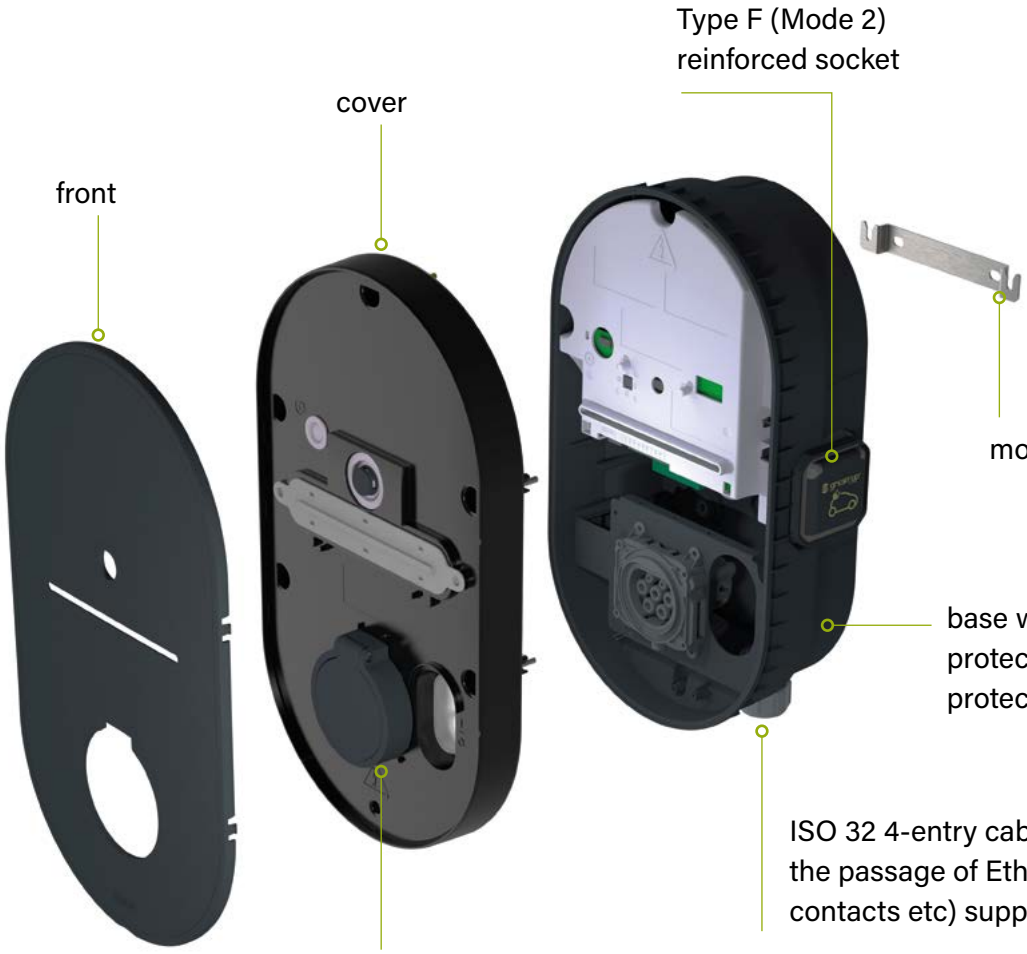
Its design allows the cable to be wrapped around the charging station without any accessory or to be hung on the integrated support for the version with an attached cable. The charging station is delivered disassembled, ready to install.

CHARGING STATION WITH ATTACHED CABLE



Advice for use:
It is recommended to seal the plug with the provided cap after each use.

CHARGING STATION WITH SOCKETS

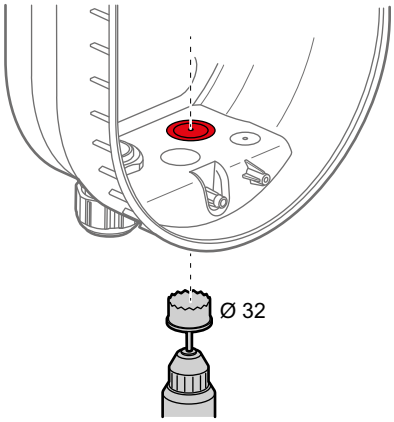


The pack also includes a detachable mounting template for marking the wall fixing holes

Legrand's commitment:
The packaging of the Green'UP HOME charging station is part of an environmental approach to reduce materials, and the integrated template meets this expectation.
100% recycled cardboard

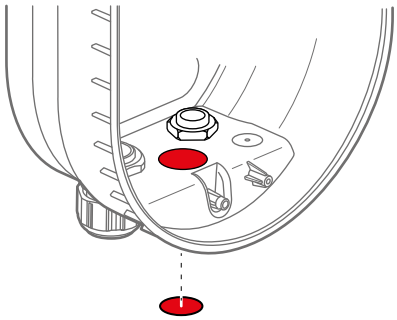
Positioning

The charging station can be mounted on all types of walls; the screws must be adapted accordingly: the weight of the charging station ranges between 3.5 and 4.5 kg maximum (more details in the technical sheet).



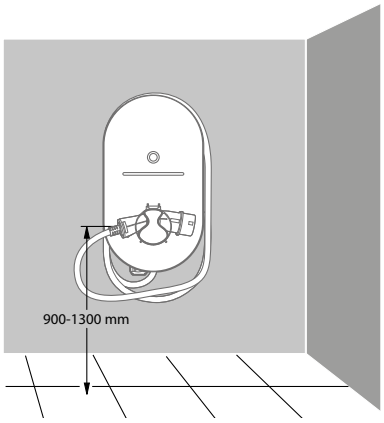
Use a membrane gland to seal an unused cable entry and ensure IP55 protection

Drilling : to modify the position of existing cable glands or to add a cable gland, it is recommended to drill the cable entries (non-knockout) with a step drill bit (recommended) or a hole saw before fixing the charging station



In the case of cable entry from the rear or for pedestal mounting (see assembly steps in the instruction sheet), it is necessary to remove the cable glands fixed on the charging station and seal these entries with the cable glands (provided with the pedestal, or Cat.No 0 019 55, ti be ordered separately). It is then necessary to drill the rear cable entries (non-knockout) with a step drill bit

Installation
To comply with accessibility conditions for people with reduced mobility, the charging station must be wall-mounted to ensure:
- a height of 90 to 130 cm between the ground and the socket/plug
- a distance greater than 60 cm between the charging station and the adjacent wall (in the case of a version with a Mode 2 socket)



Fixing

SIMPLE AND QUICK WALL INSTALLATION WITH ONLY 3 FIXING POINTS :

Detach the printed template from the packaging by folding along the pre-cut lines (no tools needed)

- Mark the **3 fixing points** using a spirit level
- Drill the wall
- Fix the metal bracket on the wall with 2 screws

(not provided, to be adapted according to the wall)

- Install the charging station on the wall bracket by sliding the 2 pre-installed screws into the slots of the wall bracket.
- Unclip the metal cover with the Mode 3 base*
- Fix the 3rd screw to the wall to finalize the wall mounting of the charging station.
- Connect the power supply to the automatic terminals (p. 17)
- Then reclip the metal base of the Mode 3 socket*

*Only for charging station with socket

Simplified installation: a slide is integrated into the base of the charging station for holding the Mode 3 socket. The charging station can be safely fixed to the wall without the risk of disconnecting the Mode 3 socket

Installation of a charging station on a pedestal
► information available in the assembly manual on the online catalog

Renovation : floor mounting fixing centre identical to the Green'UP PREMIUM range

CONNECTION

PROTECTION

The Green'UP HOME electric vehicle charging station must be protected at the electrical panel in accordance with IEC 60364-7-722 and its transposition according to the local installation standards in the country.

Rating setting

The 7.4 kW and 22kW charging stations have adjustable power that will require appropriate protection. The provided protections (circuit breakers) meet the needs for setting the maximum power.

4-position selector for setting the rating:
- Position 0 = 16 A
- Position 1 = 20 A
- Position 2 = 25 A
- Position 3 = 32 A

The adjustment is made with a 2.5 mm flathead screwdrive.

Reminder of the power delivered by the selected intensity on the charging station:

Three-phase	Single-phase
16 A --> 11 kW	16 A --> 3,7 kW
20 A --> 15 kW	20 A --> 4,6 kW
25 A --> 18 kW	25 A --> 5,8 kW
32 A --> 22 kW	32 A --> 7,4 kW

Changing the position of the selector requires restarting the charging station to apply the new power setting.

Power connection diagrams

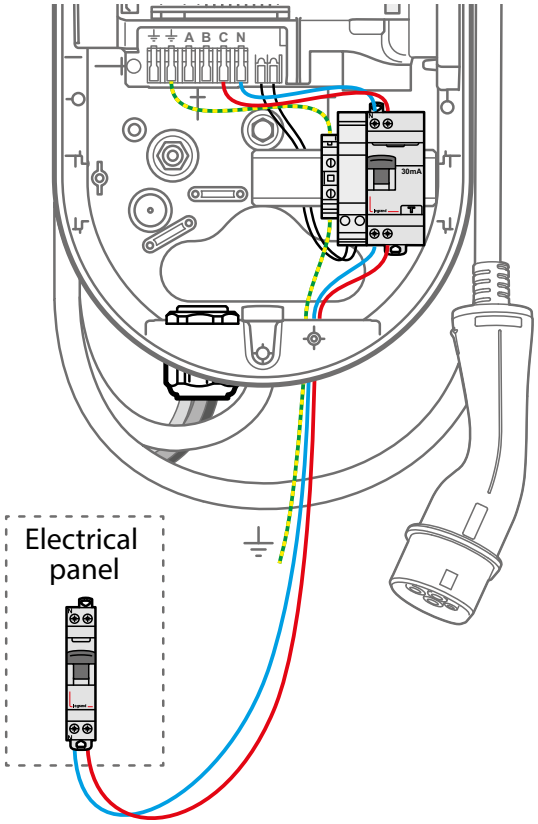
REMINDER OF INSTALLATION STANDARD

The main electrical standard to be followed in residential buildings and for the installation of an electric vehicle charging station is IEC 60364-7-722 (2nd edition - 2018).
Reminder of the necessary protections described in IEC 60364-7-722, to be adapted according to the applicable local regulations.
- Each connection point must be powered by a dedicated circuit,
- Each connection point must be protected by an overcurrent protection device (e.g., circuit breaker),,
- Each connection point must be individually protected by a 30 mA residual current device (RCD) of Type A in Mode 1 or 2, Type B, or at least Type A or F with a 6mA DC fault current detection device (RDC-DD(1)) in Mode 3 (single-phase or three-phase),
Note: Since 6mA DC protection is included in all Green'UP HOME charging stations, only a Type A or Type F residual current device (RCD) is required.
- a shunt trip to meet the requirements of the EV Ready 2.0 label,
- sufficient cable cross-section (recommended cable cross-sections for the charging station rating setting: at 16 A, use 2.5 mm² cables - at 20 A, use 4 mm² cables - at 25 A, use 6 mm² cables - at 32 A, use 10 mm² cables),
Caution : The values indicated are recommendations, refer to the calculation note.
- a properly installed cable routing,
- a grounding value complying with the local installation regulations in force.
(1) Residual direct current detecting device

A grounding value below 100 Ohms is recommended.
Note: Some vehicles require grounding < 30 Ohms.

SINGLE-PHASE WITH BUILT-IN PROTECTION CAT.NO 0 570 51

For Cat.No 0 570 51, the protections are suitable for a maximum power of 32A. It is recommended to use cables with a maximum cross-section of 10 mm².
Caution : The values indicated are recommendations, refer to the calculation note.



The charging station is delivered with pre-wired protection.
It remains to power the RCBO and the ground terminal on the upstream terminals.
It is recommended to protect the dedicated line to the charging station with a circuit breaker in the electrical panel (not provided).

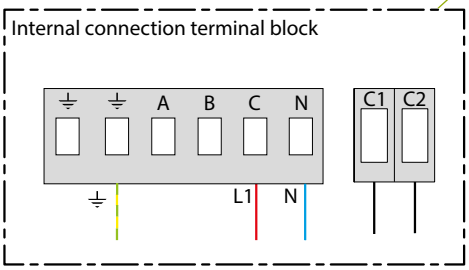
It's recommended to clamp the cables once the wiring is finalized.

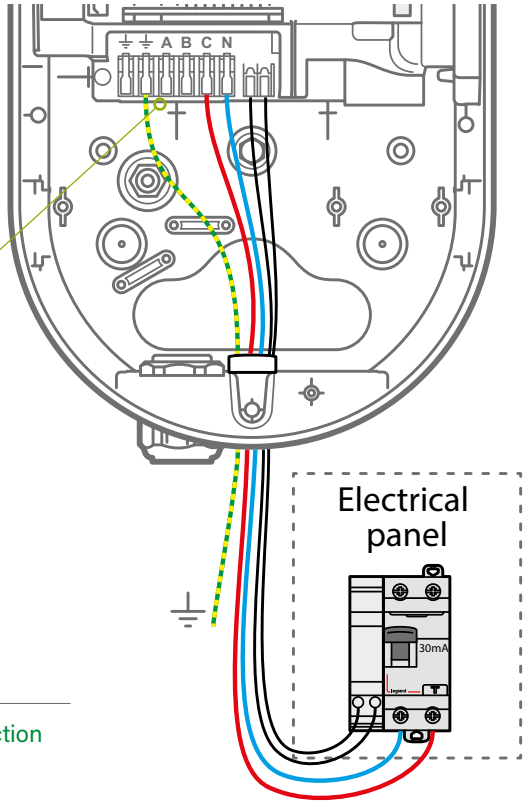
Power connection diagrams (continued)

SINGLE-PHASE WITHOUT PROTECTION CAT.NOS 0 570 41 AND 0 570 21/35

The charging station is delivered without protection device: the wiring is to be done directly on the terminal block of the charging station

Reminder of the standard: Green'UP HOME charging stations have an integrated 6mA DC protection, so they must be paired with a Type A or Type F RCBO to comply with the IEC 61851-1 and IEC 60364-7-722 standards





Cat.No 0 570 35 (Mode 2 + Mode 3) is equipped with a pre-wired 20 A protection circuit breaker for the protection of the Type F socket.

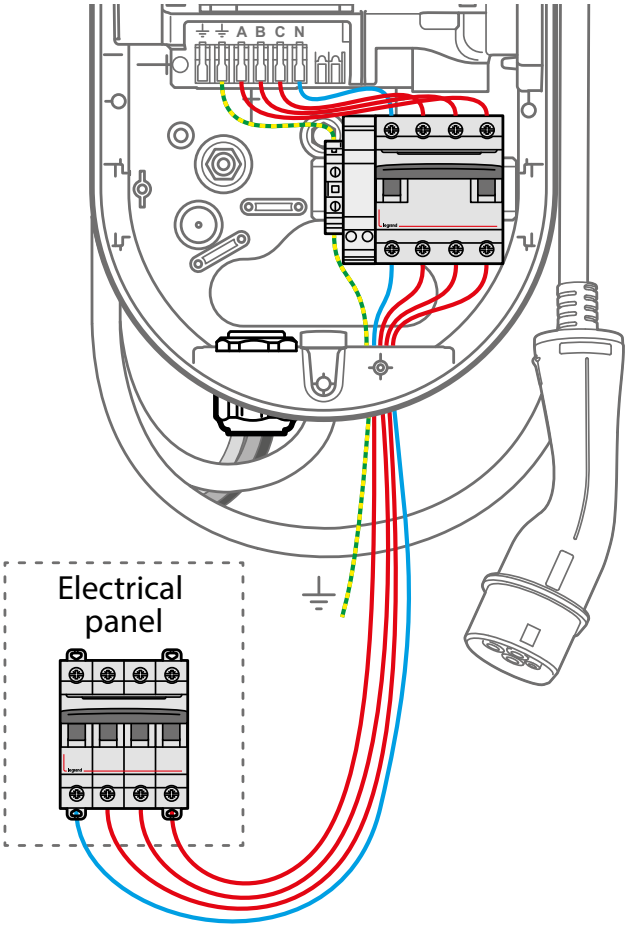
Cat.Nos	Current strenght (A)	Power (kW)	Power line section (mm^2)	Shunt trip	RCBO
0 570 41 0 570 21/35	16	3.7	2.5	4 062 76	4 110 95
	20	4.6	4		4 110 96
	25	5.8	6		4 110 97
	32	7.4	10		4 110 98

Protection can be provided by a RCD and a MCB in accordance with the calculation notes

It's recommended to clamp the cables once the wiring is finalized.

THREE-PHASE WITH BUILT-IN PROTECTION CAT.NO 0 570 52

The charging station is delivered with pre-wired protection device.
It remains to power the RCBO and the ground terminal
on the downstream terminals.
It is recommended to protect the dedicated line
to the charging station with a circuit breaker in
the electrical panel (not provided).



The built-in protections are suitable for a maximum power of 32A. It is recommended to use cables with a maximum cross-section of 10 mm²
Caution : The values indicated are recommendations, refer to the calculation note.

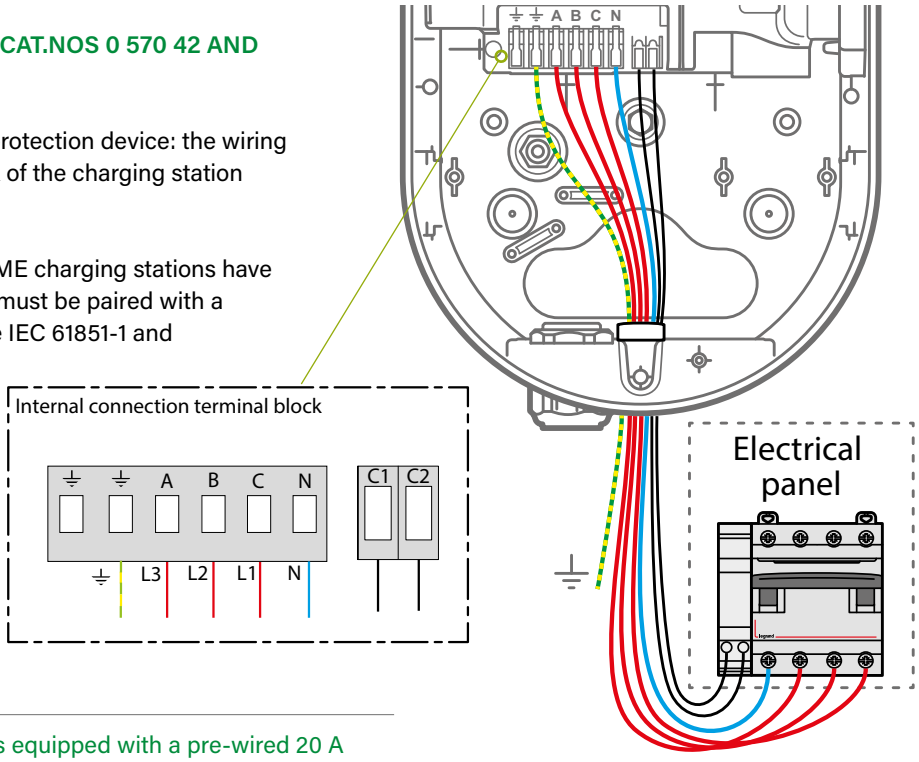
It's recommended to clamp the cables once the wiring is finalized.

Power connection diagrams (continued)

THREE-PHASE WITHOUT PROTECTION CAT.NOS 0 570 42 AND 0 570 22/37

The charging station is delivered without protection device: the wiring is to be done directly on the terminal block of the charging station

Reminder of the standard: Green'UP HOME charging stations have an integrated 6mA DC protection, so they must be paired with a Type A or Type F RCBO to comply with the IEC 61851-1 and IEC 60364-7-722 standards



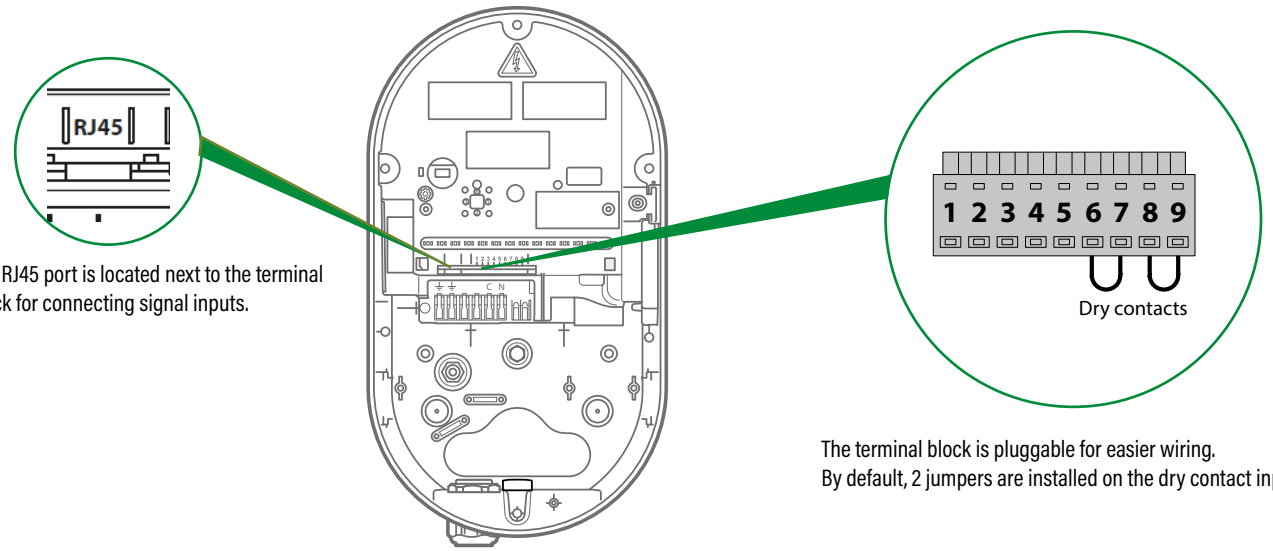
Cat.No 0 570 37 (Mode 2 + Mode 3) is equipped with a pre-wired 20 A protection circuit breaker for the protection of the Type F socket.

Cat.Nos	Current strenght (A)	Power (kW)	Power line section (mm^2)	Shunt trip	RCBO
0 570 42 0 570 22/32	16	11	2.5	4 062 76	4 112 45
	20	15	4		4 112 46
	25	18	6		4 112 47
	32	22	10		4 079 32 + 4 105 34

Protection can be provided by a RCD and a MCB in accordance with the calculation notes.

It's recommended to clamp the cables once the wiring is finalized.

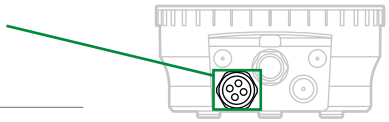
Delivery status of the connection terminal block for control/communication functions (RJ45, dry contacts...)



The RJ45 port is located next to the terminal block for connecting signal inputs.

The terminal block is pluggable for easier wiring.
By default, 2 jumpers are installed on the dry contact inputs.

It is recommended to use the 4-entry cable gland installed on the charging station for the passage of communication cables.



It's recommended to clamp the cables once the wiring is finalized.

RJ 45 connection

An RJ45 Ethernet cable can be installed to ensure connectivity from the residential box to the electric vehicle charging station in case of insufficient Wi-Fi signal reception.
Legrand recommends using at least category 5 F/UTP Ethernet cable to ensure cable longevity and prevent signal degradation when next to power cables.

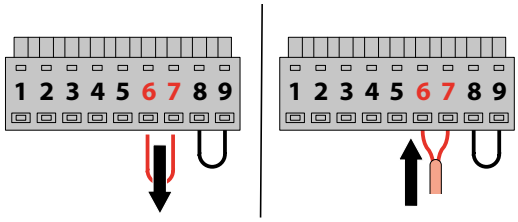
Reminder of the requirements for the proper functioning of the connectivity of the Green'UP HOME charging station:
- Ethernet cable maximum length : 100 m with Ethernet cable category 5 F/UTP minimum recommended
- Wi-Fi signal required for proper operation of the charging station in connected mode: Residential and private Wi-Fi, (not compatible with open Hotspot networks).
Frequency band 2.4 GHz. Range 100 m in open field.

Dry contacts connection diagrams

By default, the charging station is delivered with 2 jumpers installed for the dry contact inputs (6-7 and 8-9).
It is possible to connect the dry contact inputs in override mode or without override mode depending on the customer's use of the charging station.
In any case, the 6-7-8-9 inputs must be closed either with the jumper or with connection cables.

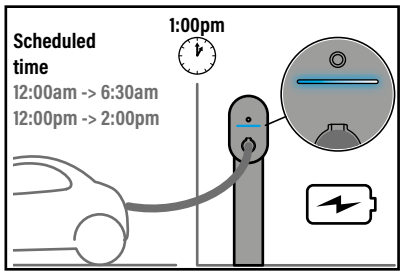
CASE 1 : OVERRIDE MODE

The override mode is enabled by default on the charging station.

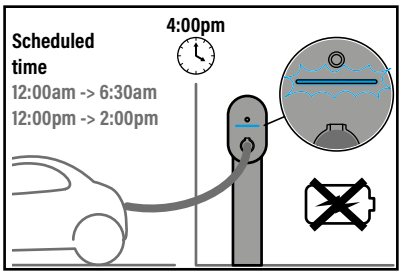


Remove the jumper from inputs 6 and 7 and connect the control device (e.g., time switch).

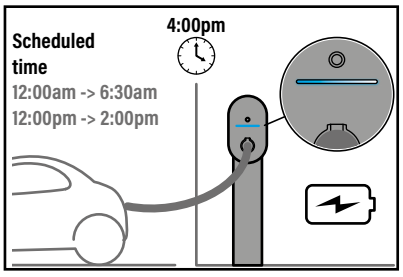
Example: I want to charge my car during fixed time slots, using a time switch.
It will be possible to override this by a long press on the button on the front of the charging station or via the Home + Control app to start the charge



The charging station allows charging according to the scheduled times.



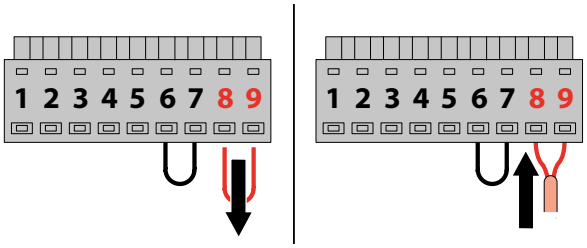
Outside of the scheduled times, charging is awaiting authorization.



It is possible to start the charge at any time by overriding with a long press on the button on the front of the charging station or via the Home + Control app.

CASE 2 : WITHOUT OVERRIDE MODE

In without override mode, pressing the button on the front does not allow starting the charge. However, it will still be possible to start the charge via the Home + Control app.

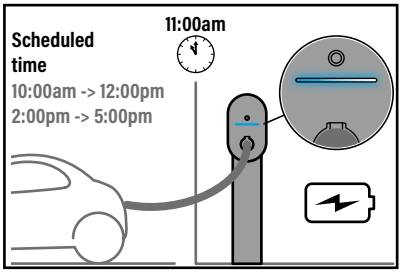


Remove the jumper from inputs 8 and 9 and connect the control device (e.g., time switch, contactor...).

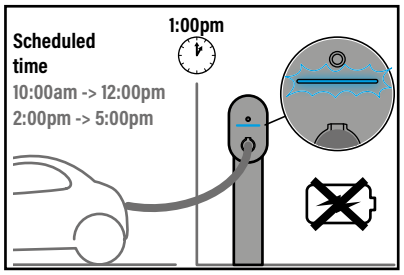
This operating mode limits external actions on the charging station and restricts its use.

Example :
I want to be able to use my charging station during my working hours (office or private practice) with time management using a time switch (fixed opening hours)

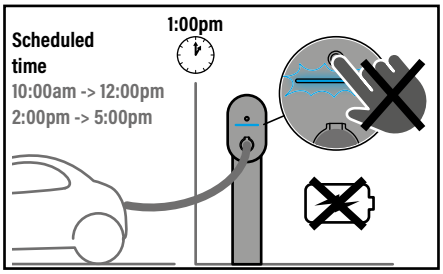
Outside of my working hours, it will not be possible to force the charge by pressing the button on the front. The override will remain possible via the Home + Control app.



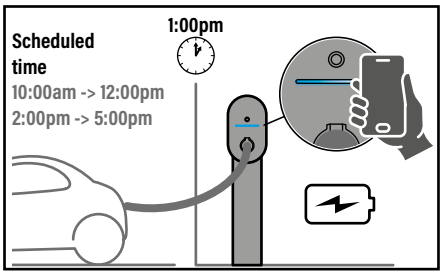
The charging station allows charging according to the scheduled times.



Outside of the scheduled times, the terminal does not allow charging.



The override on the front button does not allow vehicle charging outside of the scheduled times.

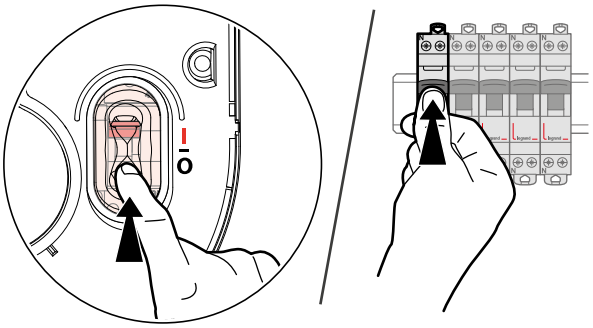


The override remains possible via the Home + Control app.

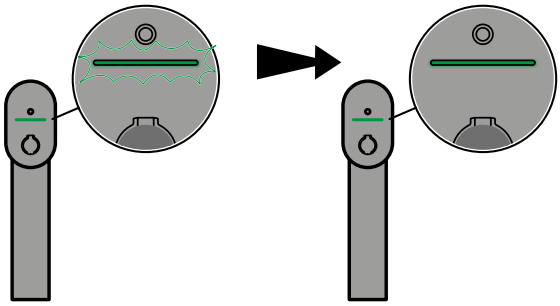
COMMISSIONNING

FIRST COMMISSIONING

Step-by-step commissioning



1. Power on the circuit in the panel and in the charging station (for version with built-in protection).



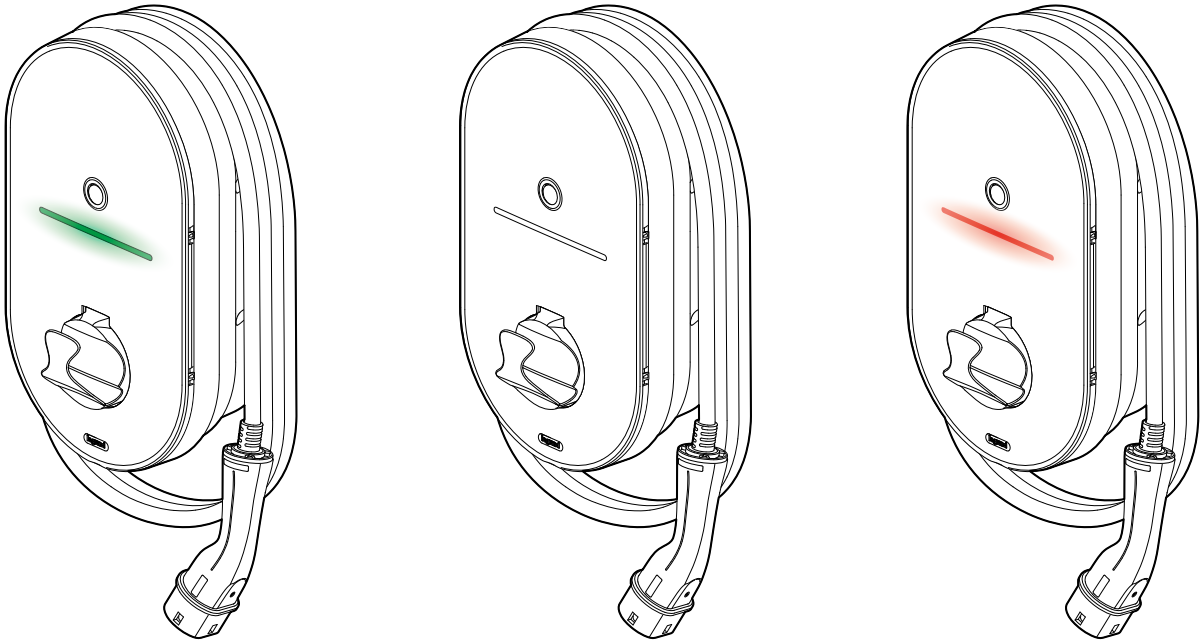
2. The charging station's indicator light flashes green and then turns steady green.

3. The steady green light indicates that you can proceed with the steps for pairing the smartphone (p. 26).

Product information: You have a maximum of 5 minutes after powering on to pair your smartphone with the Home + Control app, otherwise restart.

Indicators on the charging station

Once the Green'UP HOME charging station is installed, the functional indicators are green and blue (steady or flashing).
If the front indicator is red, a fault is present.



	Ready to charge
	Awaiting authorisation (programming etc)
	Charging in progress
	Faulty
	Not powered / stand-by
	Setting mode

Override button

FUNCTIONS :

- Short press: stops charging and unlocks the plug.
- Long press (> 5 seconds): override, forces the start of charging.

It will also be used during the smartphone pairing step with the Home + Control app.

In the case of a charging station accessible to third parties, the button can be deactivated from the Home + Control app (cf Settings).
In that case, no action will be possible via the override button.

Configuration of the charging station with Home + Control app

Once the charging station is connected to the electrical panel and the signal cables are installed, depending on the chosen operation mode (connected or without available Wi-Fi connection), the commissioning will be different.

THE CHARGING STATION IS CONNECTED TO THE INTERNET

- If your client does not have a Home + Control installation, follow all the instructions (steps 1 to 3).
- If your client already has an active installation in Home + Control, you can guide them on how to integrate the charging station into their existing setup in the Home + Control app (step 3).

THE CHARGING STATION IS NOT CONNECTED TO THE INTERNET

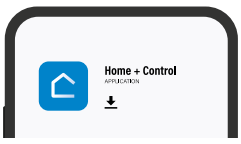
- If your client cannot connect the charging station to the home Internet network, they should still follow the instructions to install the Home + Control app on a smartphone using a 4G/5G or Wi-Fi connection.
- The configuration (steps 1 to 3) and updates will then be carried out via Bluetooth.

▪ Step 1: Free download of the Home + Control app

PREREQUISITES

- Have an Internet router (or a functional Wi-Fi router) or have wired the charging station with RJ45
- Have an email address
- Have an iPhone or iPad compatible with the latest version of iOS/iPadOS or an Android smartphone with at least version 5.0
- The smartphone must be able to access the Wi-Fi network of the home box or a 4G or 5G network.

Search in the stores by typing “Legrand Home + Control”



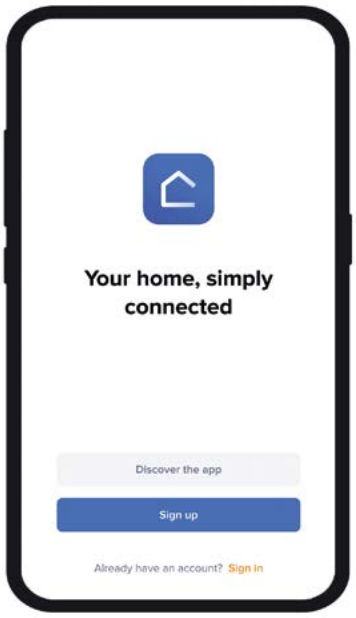
It is recommended to install the app directly on the client’s smartphone. You can pre-install the Green'UP HOME charging station in the app for the client and transfer this information to their account later.

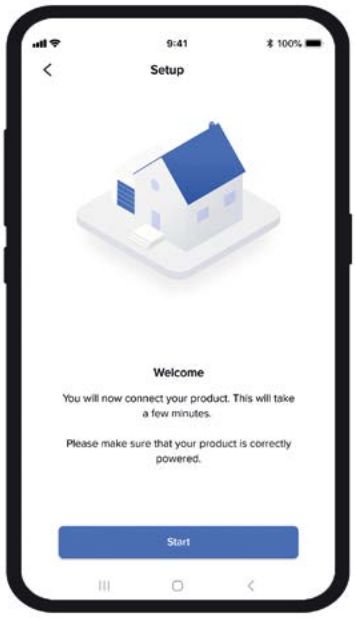
Legal notice

iOS: The Legrand connected solution Green’UP HOME requires an iPhone, iPad, or iPod touch (the latest version of iOS or iPadOS is recommended) It is recommended to update to the latest version of the software and operating system.
ANDROID: A recent version of Android with access to Google Play is recommended.
WEBApp: PC & Mac

▪ Step 2: Installing the Home + Control app on a smartphone

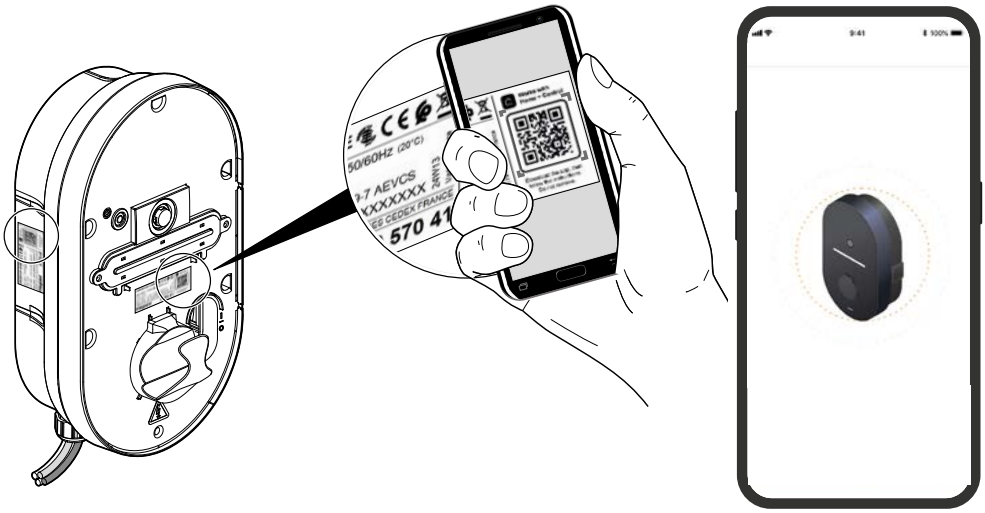
Once the application is downloaded, follow the on-screen steps to create an account and set up your client's installation.





▪ Step 3: Registering the Green'UP HOME charging station in the app.

Follow the steps provided in the Home + Control app.
Follow the instructions to add a product (the Green'UP HOME charging station will be available in the list of connected products).
You will be asked to scan the QR code located on the side and under the cover of the charging station.



The charging station is recognized and available in the Connected Home on the Home + Control app (this step may take a few minutes). Follow the step-by-step instructions.

The color and status of the charging station's indicators are updated on the app's screens.

Once the charging station is integrated into the Home + Control app, it will be able to receive firmware updates:
- In connected mode: automatically, without any required action,
- In non-connected mode: manual update locally via Bluetooth (see usage conditions for network access with the smartphone p. 26). Requires reconnecting the smartphone to the charging station (step 3).

Frequently Asked Questions

- **If the electric vehicle charging station is connected to the internet, does it affect the bandwidth?**

Yes, in Wi-Fi, but the impact is very low; in wired mode, the impact is almost negligible. It depends on your internet service provider.

- **Are connected electric vehicle charging stations protected from external disturbances?**

Our charging stations comply with the EMC/RED regulations, so they are immune to external disturbances. All wired connections for communication must follow the characteristics recommended in the instruction sheet.

- **I have 2 connected electric vehicle charging stations, can I control them from the same Home + Control app?**

Yes, you can register multiple charging stations on the same account and control them from the same app

- **How can I authorize another person to control my connected electric vehicle charging station?**

From the Home + Control app, you can manage and grant access to another person by adding their email address.

- **Where can I find the serial number of my connected electric vehicle charging station?**

The serial number is on the label inside and on the side of the charging station. This label includes information such as the catalogue number and characteristics of the charging station.

- **How can I update the firmware of my charging station?**

The update is automatic if the charging station is connected to an internet network (wired or Wi-Fi). This is recommended for optimal charging.
If the terminal is not connected, it is possible to manually update via the Home + Control app locally using Bluetooth. For this, it will be necessary to re-pair the smartphone with the charging station.

- **How can I find the information on the firmware version installed on my charging station?**

The firmware version can be found on the charging station's settings page in the Home + Control app.

- **I lost or changed my smartphone, how can I transfer or recover my data?**

You need to reinstall the Home + Control app on the new smartphone and log back into your customer account. The settings saved in the app are retained with the customer account.

- **I am changing my internet router, how can I update the settings of my charging station?**

From the charging station's settings page, you can modify the network connection settings. The app will guide you step-by-step to connect your terminal to your new box.

- **Can my charging station switch between a wired connection and a Wi-Fi connection?**

No, for security reasons, this is not automatic. Any change in the type of connection will require a restart of the charging station (turning off and on the electrical protection).

- **Can I add other connected products to my home after installing my Green'UP HOME charging station?**

Yes. Choose and install connected devices from the Legrand range. The Home + Control app allows you to manage your entire connected home.

Troubleshooting

Here are some possible faults and actions to take to resolve them.

FAULT	POSSIBLE CAUSES	SOLUTIONS / ACTIONS
Steady/flashing red indicator light.	Installation fault	Disconnect the vehicle and restart the charging station. Turn off the power at the protection level, wait for the indicators to go out (this may take a few seconds), then turn the circuit back on.
		If the fault persists, please contact customer service.
Indicator light off.	Charging station in standby mode	Press the front button or plug in a vehicle to wake up the charging station.
	Power off	Check the status of the RCBO.
		Check the status of the charging station's protection circuit breaker.
		Check the status of the Mode 2 socket circuit breaker.
		Turn the power ON.
		If the fault persists, please contact customer service.
Vehicle plugged in but green or blue indicator Charging does not start.	The cord is not properly connected	Check the connection of the cord on the charging station and on the vehicle (unplug and replug until charging starts).
	Firmware not up to date	Ensure your terminal is running the latest firmware version (see p. 28). Connect it to the internet
	Waiting for authorization to start charging	Check if a charging schedule, via the Home + Control app or on the vehicle, is activated.
	Electrical fault	Verify the electrical characteristics of your installation (voltage, ground resistance, etc.)
The charging station does not charge at maximum power.	Maximum charging power of the vehicle reached	Check the charging power accepted by the vehicle (onboard charger power). The vehicle may limit the power it absorbs by itself..
	Maximum power of the charging station incorrectly set	Check the maximum power of the charging station as well as the power set via the cogwheel inside the charging station. Note: Ensure that the protections are in accordance with the recommendations (p. 17). Changing the charging power via this selector requires a restart of the charging station to be taken into account.
The cord is stuck in the terminal (Type 2 Mode 3 side).		Press the front button (short press) to stop charging and release the plug.
		Stop charging from the vehicle.
		Turn off the power from the protection device, wait for the indicators to go out (this may take a few seconds), then turn the circuit back on.
		If the problem persists, contact your customer service.

RESET BUTTON

Allows you to clear the Ethernet or Wi-Fi network settings (SSID and password).

- Press and hold until the terminal's indicator light flashes red, then a short press to confirm.

Spare parts for maintenance

Cat.Nos		Type of product	Cat. Nos of compatible products
9 818 10		Cover with silicone membrane protection	0 570 51 0 570 52
9 818 11		Cover without protection	0 570 41/42 0 570 21/22 0 570 35/37
9 818 12		Face with gasket	All charging stations
9 818 13		LED strip	All charging stations
9 818 14		Control button	All charging stations
9 818 16		Pluggable terminal block for external signals	All charging stations

LEGRAND'S COMMITMENT

The new Green'UP HOME charging stations for electric vehicles was designed with Circular Economy principles in mind such as modularity and repairability. Their design allows an easy disassembly of the parts and their substitution, prolonging the lifetime of the product and reducing the generation of wastes.

Cat.Nos		Type of product	Cat. Nos of compatible products
9 818 15		Plug/cable support	0 570 51/52 0 570 41/42
9 818 34		Single-phase 7.4 kW cable	0 570 51/41
9 818 35		Three-phase 22 kW cable	0 570 52/42
9 818 19		German standard Mode 2 reinforced socket	0 570 35 0 570 37
9 809 49		Base and protective cover for Mode 3 T2S socket	0 570 21 0 570 22
9 809 51		Sub-assembly Mode 3 T2S socket	0 570 21 0 570 22
9 809 60		Locking motor for Mode 3 T2S socket	0 570 21 0 570 22
9 818 20		Mounting support	All charging stations

Maintenance schedule

During its use, the charging station may be exposed to various factors such as very low or very high temperature variations, overvoltages, a hostile environment, corrosive conditions, ambient pollution (e.g., dust, humidity, animals, salt fog...), operational wear (e.g., contactors, connectors...), etc.
Performing the various maintenance operations at the recommended intervals will ensure the charging station operates under optimal conditions and maximize its lifespan.

The maintenance of the charging stations for electric vehicles must be carried out by qualified, trained and authorized personnel, in accordance with the regulations in force in each country..

The indicated periodicity is conditioned by the actual environment, such as extreme temperatures, high dust levels, saline environment, corrosive atmosphere, significant vibrations, and intensive use. In these more severe operating and environmental conditions than normal, the maintenance of the charging station must be carried out more frequently.

OPERATIONS	PERIODICITY	POWERED DOWN	IN SERVICE (OPERATING)
1/5 - GENERAL MAINTENANCE			
External cleaning	6 months[1]	X	
Make sure there are no foreign objects inside the charging station	Annual[1]	X	
Internal cleaning (dust removal by suction)	Annual[1]	X	
Integrity of ground connections	Annual[1]	X	
Visual inspection of the condition of the cord and plug	Annual[1]	X	
Visually check that there is no moisture inside and outside the charging station (condensation)	Annual[1]	X	
Check charging station integrity	Annual[1]		X
2/5 - MECHANICAL INSPECTIONS			
Check the proper functioning of the socket cover	Annual[1]		X
Check tightening torques: conductors, terminal blocks and assembly screws	1st commissioning 2 months after 1st commissioning Then annual	X	
Grease sockets (perfluorinated lubricant such as Lubrilog Fluolog MG 2)	Annual[1]	X	
Signal checking	Annual[1]	X	
T2s socket lock motor	Annual[1]	X	
3/5 - ELECTRICAL INSPECTIONS			
Checking the grounding of the charging station [2]	1st commissioning		X
Visual inspection of cable integrity	Annual[1]		X
RCBO or RCD test	1st commissioning Then annual		X
Control of the built-in 6mA protectionl	Annual[1]		X
Measuring electrical values: simple and compound voltage, frequency... inputs/ outputs	Annual[1]		X
4/5 - FUNCTIONAL INSPECTIONS			
Visual and functional inspection of auxiliaries Use a load simulator	Annual[1]		X
T2s locking motor	Annual[1]		X
Green'Up Access socket detection (only for Mode 2 charging station)	Annual[1]		X
5/5 - OTHER			
Checking the charging station firmware version	6 months[1]		X

(1) To be modulated according to installation and usage conditions
(2) Some vehicles require a ground < 30 ohm



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