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The Home Legrand charging station allow to charge all electric and rechargeable hybrid vehicles.

### General description:

The Home Legrand charging station with attached cable are available in **single-phase or three-phase**. They can be installed indoors or outdoors in private residential area. These CS can be fixed directly on the wall or fixed on a pole. This last mounting solution allow to fix **1 or 2 CS back-to-back**.

### Compliance to the Standards

- Installation: IEC60364-7-722: requirements for special installations or locations - Supplies for electric vehicles
- Products: **IEC 61851-1**, EN 61439-1, EN 61439-7
- Certified by independent inspection company (SGS)

### Construction features:

- The wallbox is made in Polycarbonate material. This offer responds to a protection degree of **IP54** and shock resistance **IK10** to be used in residential or small commercial area where access management and/or billing is not required.
- 2 versions of charging station are available. 7.4kVA for single phase network and 22kVA for three phases network
- Operating temperature -40 °C ... +50 °C

They are equipped with:

- A fixed cable 5m length with a plug Type 2

2 network connection possible:

- **Single-phase terminals**, 230V with power adjustable from **16 to 32A** (3.7kW to 7.4kW)
- **Three-phase terminals**, 400V with power adjustable from **16 to 32A** (11kW to 22kW)

Power is adjustable (maximum static charging current) through the local BT app "**Charger control**"

## Protection.

The protections of the supplying circuit are not delivered with the charging station. These ones **have to be order separately**. They have to be sized in accordance with the electrical installation's rules and the power of each charging point.

Each charging point shall be protected by a **RCCB 30mA Type A or F** (depending on local regulations) and a **C curve circuit breaker**. Nominal rating have to be in accordance with the max power delivered by the charging point.

The Home Legrand CS range **integrate a detection fault current 6mA DC**. Following the standard IEC 61851-1, the appropriate protection shall be a RCD 30mA type F associated to a MCB.

The supply connection accepts section wires from 2,5 to 10mm<sup>2</sup>

## HMI

The information about the status of charge is displayed on the front of the charging station by leds interface

Green = Ready for charging

Blue = Vehicle connected / Charging

Red = Error state

Yellow = Internal maintenance / software update in progress

## Communication

The **Charger control application** allows viewing of the operating status of the charging station, activating / deactivating the charging station, adjust the power, active the DLM management by smartphone or tablet via local wireless communication via Bluetooth. The "**Charger control**" app can be downloaded on Play Store or APP Store. Version compatible with Android version 5.0 and above and iOS version 8.0 and above

## Load management

To not exceed the energy contract of the house, load management can be done by several solutions.

### **By external energy meter**

The energy meter measures the total power consumption and the actual current per phase. If some other load over the set maximum current for load management is

added when charging is ongoing, the charger will decrease the charging current. If the total power consumption reaches the allowed maximum power, the charging interrupts until the total power consumption has decreased to a value at which the charging can continue.

### By CX3 with Netatmo solution

Thanks to load shedder and dry contact, the CS is managed to not exceed the energy limit of the home. If the total load reaches the allowed maximum power, the Smart Load Shedder sends a signal to the Connected dry contact. to switches off the charging current. When the Connected dry contact gets a signal that the total power consumption has decreased to a set value, it switches on the charging current.

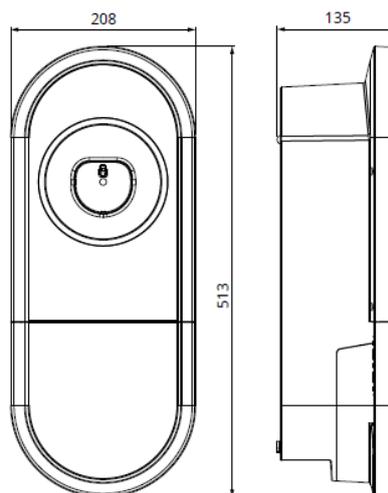
### By external relay

CS can be managed by external relay, time switches... to choose the best moment to charge. The charging events can be controlled by this dry contact module.

### Fixing solution:

The **charging station can be directly fixed on the wall**. A dedicated pole (0590 18) allows to fix the charging station on the floor. For this, the foot support has to be fixed on a resistant concrete block anchored in the ground. The pole can accept **1 or 2 CS back-to-back**.

### Dimension



Looking for more info, please see the Installation instruction and user's manual, Charger control mobile app ...