

Green'up™

ELECTRIC VEHICLE CHARGING
SOLUTIONS FOR THE
COMMERCIAL SECTOR



#LegrandImprovingLives

 **legrand**®



ELECTRIC VEHICLE CHARGING SOLUTIONS IN APARTMENT BUILDINGS AND COMMERCIAL BUILDINGS



Green'up Access sockets
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Plastic Green'up Premium charging stations ▪ p. 4-5



Metal Green'up Premium charging stations
▪ p.6-7

Green'up™

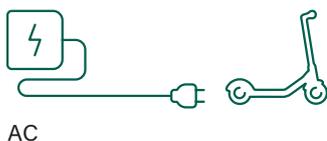
ELECTRIC VEHICLE CHARGING SOLUTIONS



Electric and plug-in hybrid vehicles are an increasingly common sight on the road. This is an ideal opportunity to integrate an Electric Vehicle Charging Infrastructure (EVCI) in your commercial and apartment building projects with maximum simplicity and safety.

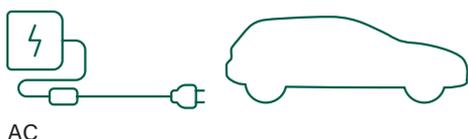
Read on to find out about the Legrand Green'up Access/ Green'up Premium offers and related services.

MODE 1



Typically used for electric bikes and electric scooters. The electric vehicle connects to normal 230 V sockets up to 16 A max.

MODE 2



Requires presence of a protection device which is usually integrated in the cable provided with the vehicle. The electric vehicle connects to normal domestic 230 V sockets up to 16 A max or dedicated or industrial sockets up to 32 A max.

MODE 3



Requires presence of a protection device which is integrated in the charging station. The electric vehicle connects to the network with dedicated sockets – up to 22 kW (32 A). Communication between the station and the vehicle via the PWM (Pulse Width Modulation) protocol.

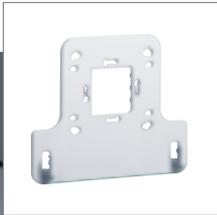
CHARGING SOCKET FOR EXPOSED LOCATIONS

Green'up Access

IP 55, IK 10 socket

Rugged, inexpensive and scalable solution. With its IK 10 protection giving it excellent resistance to harsh environments, the Green'up Access socket is perfect for use in public car parks and lock-ups. Inexpensive, simple to install, safe, it can also be used for all conventional purposes, and is specially prewired so it can easily be replaced with a mode 3 charging station.

BRACKET + SOCKET



MODE 1 & 2

- IP 55 - IK 10
- 16 A - 3.7 kW
- Single-phase

- Supplied with bracket
- Available with lockable flap
- Line protected by RCBO

Heavy-duty socket, identified for electric vehicles, also suitable for any application
Conforms to IEC 60884-1.

Optimum safety

Surface treatment of metal contacts to improve electrical conductivity.



8 to 16 A charging in complete safety of all electric vehicles with a mode 1 or mode 2 cable, regardless of how much charging power is required by the vehicle.

“In the car park, in my building, I can charge my electric vehicle in complete safety while controlling access to my socket.”



DETECTION SYSTEM PATENTED BY LEGRAND

Vehicles detect the secure Green'up infrastructure and select the maximum power that can be supplied via the socket, resulting in a shorter charging time.



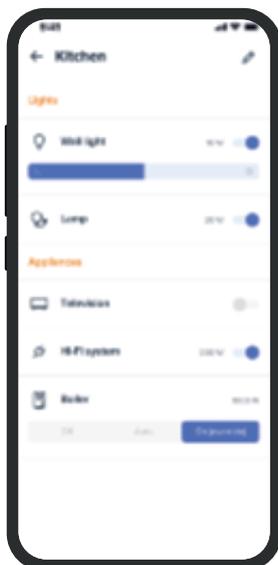
ALSO EXIST AS INDIVIDUAL SOCKETS IN DIFFERENT RANGES



Flush mounting or surface mounting with frame.

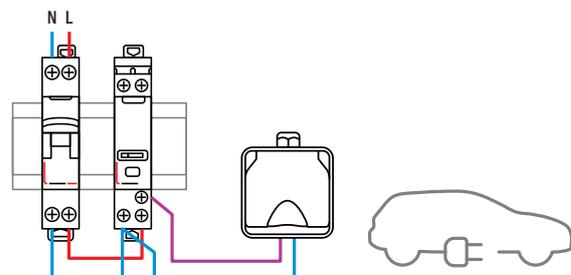


The Soliroc socket with lockable flap can restrict access to the socket.



OPTIONAL REMOTE CONTROL (SMART HOME INTEGRATION)

Green'UP Access sockets can be managed remotely with the help of the Home + Control App by adding a CX³ with Netatmo connected starter pack (allowing to control the operation remotely, to integrate controlled appliances in schedules, track consumption of the circuit controlled).



CHARGING STATIONS FOR COVERED CAR PARKS

Green'up Premium

Plastic charging station

Solution which allows charging to be controlled locally or remotely. The Green'up Premium charging station is used for charging vehicles in mode 2 or mode 3. With its Bluetooth connection it can be used to control charging locally via the EV CHARGE light application. When connected to the IP or Wi-Fi network with the communication kit, it allows remote control from a smartphone, tablet or PC and CPO management using the OCPP protocol.



MODE 2* MODE 3 communicating

- IP 44 - IK 08
- Single-phase: 3.7/4.6 kW or 7.4 kW
- Three-phase: 22 kW
- 6 mA DC detection embedded to limit risk of residual direct current
- Detection system patented by Legrand conforms to IEC 61851-1
- Conforms to IEC 61851-1

RFID card reader embedded for identification via RFID badge

Delayed start: 3, 6 or 9 hours
Option of delaying start by 3, 6 or 9 hours. For charging during the cheap rate period.

Integrated communication kit for remote wireless IP communication for remote management (compatible with OCPP 1.6 protocol).

1 For any electric vehicle model
Shuttered T2S EV Plug socket for mode 3 charging.

2 Detection system patented by Legrand: vehicles detect the secure Green'up infrastructure and select the maximum power that can be supplied via the socket, resulting in a shorter charging time.

*Mode 2, depending on model

“While I’m in the office, I can charge my electric vehicle.”



POWER ADJUSTMENT

To limit the charge in compliance with your installation:

Charging station	Rated power (kW)	Power adjustment (kW)
Single-phase	4.6	3.7 / 4.6
	7.4	3.7 / 4.6 / 5.7 / 7.4
Three-phase	22	11 / 15 / 18 / 22

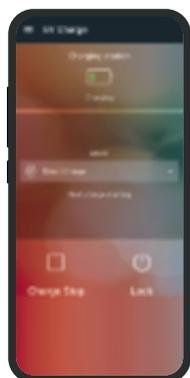
MANAGING ACCESS TO THE CHARGING STATION

Managing access by using Bluetooth and the EV CHARGE LIGHT APP

The EV Charge light application is used to lock/unlock the charging station.



EV CHARGE light App



Keycard identification

With an integrated RFID keycard reader and communication kit, the user is identified so as to authorise or deny access to charging and enable charging out if applicable. The RFID reader accepts 13.56 MHz ISO keycards: hotels, company access control, Legrand keycards, charging company keycards, etc.



Quick and easy to install on the wall or floor using the dedicated pedestal.

LOCAL OR REMOTE CONTROL

Local control

ON/OFF by means of a volt-free contact input for external control of the charging station (time switch, contactor, etc).

Remote control

Thanks to the integrated communication kit, Plastic Green'up Premium charging stations can be controlled and managed remotely, thus enabling:

- delegation of the management of their bank of charging stations to a charging company
- individual control of each charging station
- dynamic power management associated with a Legrand Energy Web Server.



Parameter setting, remote control and supervision from a computer.

SOLUTION FOR COMPANY CAR PARKS

Green'up Premium

IK 10 metal charging station

Floor standing or wall mounting, shock-resistant, the Green'up Premium IK 10 charging station is ideal for vehicle fleets. A card reader (optional) can be used to unlock the charging station by identifying the employee and keeps a tally of the electricity used via a web page. When connected to the IP or Wi-Fi network with the help of the communication kit (optional), it allows remote control by CPO using the OCPP protocol.



MODE 2
MODE 3 communicating

- IP 55 - IK 10
- Single-phase: 3.7 / 7.4 kW
- Three-phase: 22 kW

• 6 mA DC detection embedded to limit risk of residual direct current

• Detection system patented by Legrand conforms to IEC 61851-1

• Conforms to IEC 61851-1

Space available for installing modular protection in the base.

Charge two vehicles at the same time at the maximum power

One type 2S socket and one Green'up Access socket on each side of the charging station.



1 Detection system patented by Legrand: vehicles detect the secure Green'up infrastructure and select the maximum power that can be supplied via the socket, resulting in a shorter charging time.

2 For any electric vehicle model
Shuttered T2S EV Plug socket for mode 3 charging.

POWER ADJUSTMENT

To limit the charge in compliance with your installation:

Charging station	Rated power (kW)	Power adjustment (kW)
Single-phase	4.6	3.7 / 4.6
	7.4	3.7 / 4.6 / 5.7 / 7.4
Three-phase	22	11 / 15 / 18 / 22



Charging station for two vehicles simultaneously, Metal Green'up Premium is available in two versions: wall mounting or floor mounting.

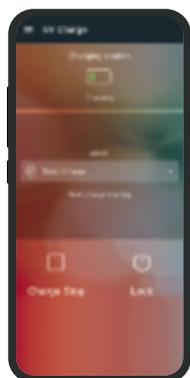
MANAGING ACCESS TO THE CHARGING STATION

Managing access by using Bluetooth and the EV CHARGE LIGHT APP

The EV Charge light application is used to lock/unlock the charging station.

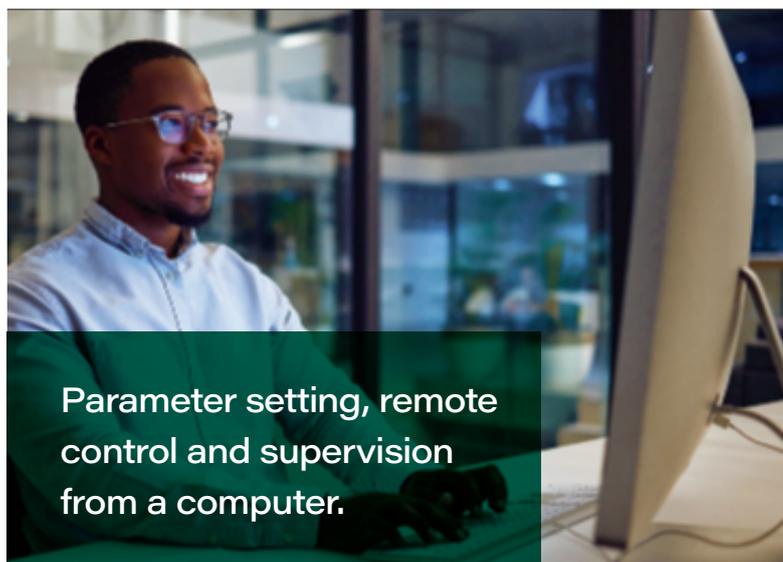


EV CHARGE light App



Keycard identification

Charging stations can be equipped with a communication kit and an RFID keycard reader, the user is identified so as to authorise or deny access to charging and enable charging out if applicable. The RFID reader accepts 13.56 MHz ISO keycards: hotels, business access control, Legrand keycards, charging company keycards, etc.



Parameter setting, remote control and supervision from a computer.

LOCAL OR REMOTE CONTROL

Local control

ON/OFF by means of a volt-free contact input for external control of the charging station (time switch, contactor, etc).

Remote control

Thanks to the optional communication kit, Plastic Green'up Premium charging stations can be controlled and managed remotely, thus enabling:

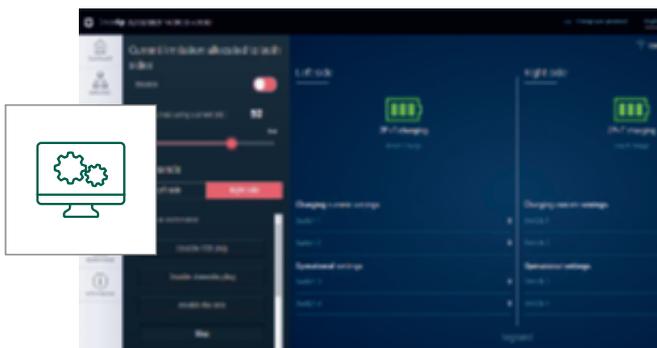
- delegation of the management of their bank of charging stations to a charging company
- individual control of each charging station
- dynamic power management associated with a Legrand Energy Web Server.

CONTROLLING EACH CHARGING STATION FROM A COMPUTER

Remote control and supervision of Plastic and Metal Green'up Premium charging stations are possible from a computer using the web control solution integrated in the communication kit. You configure your charging stations and, if necessary, choose the communication protocol for managing the installed base.

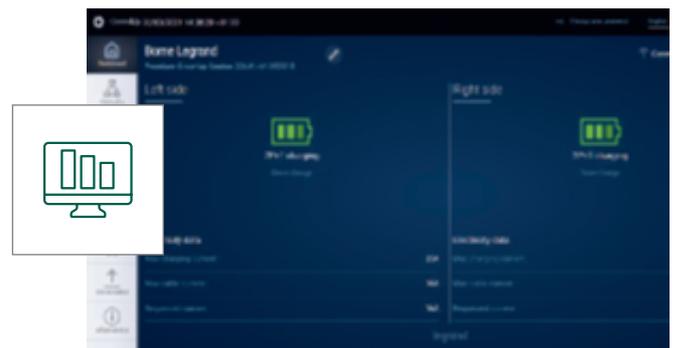
Parameter setting

DURING INSTALLATION & MAINTENANCE OF EACH CHARGING STATION



Operation

DURING USE, REMOTE CONTROL OF EACH CHARGING STATION

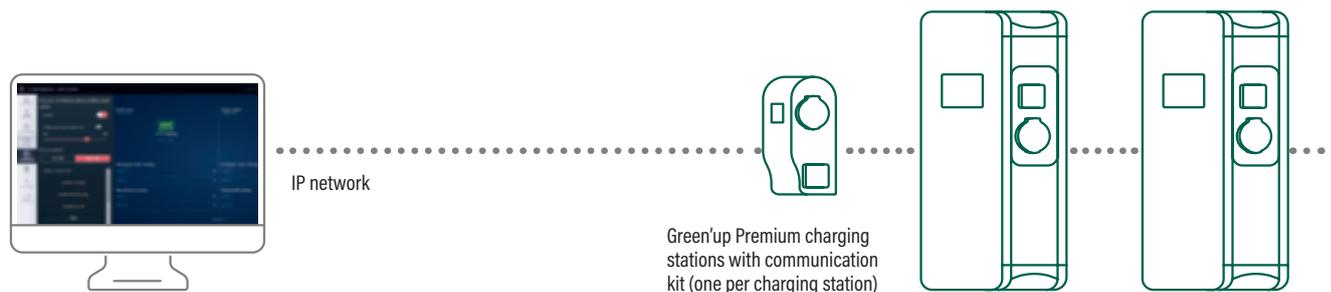


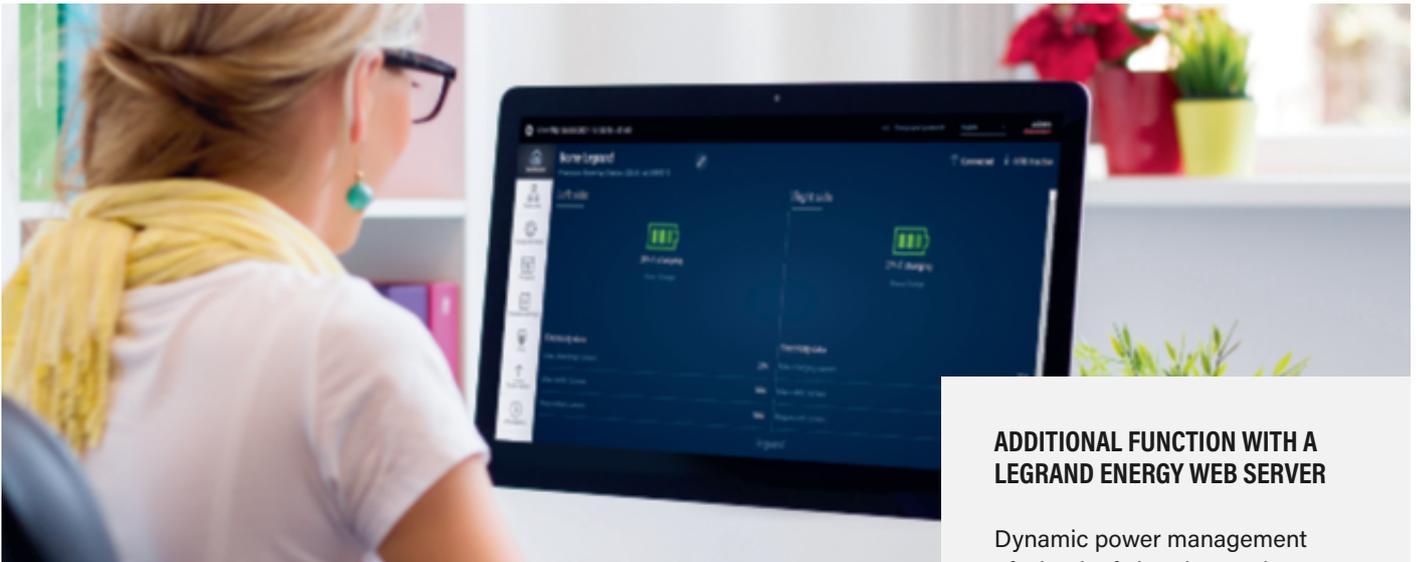
- Charging station name/Address
- Power management
- Setting access keycard parameters
- Limiting power
- Updating the charging station

Selection of the management type if applicable:

- Delegation to a charging company (OCPP 1.6 J protocol)
- Supervision with a Legrand Energy Web Server (MODBUS protocol)

- Activation/deactivation
- Status of each charging station: operating, charging type, instantaneous power
- Time programming
- Selection of external signals (free, ON/OFF contactor, peak/off-peak times contactor, time switch)
- Session history (keycard, time slot, etc), charges, errors
- Email alerts





ADDITIONAL FUNCTION WITH A LEGRAND ENERGY WEB SERVER

Dynamic power management of a bank of charging stations depending on the building's available power.



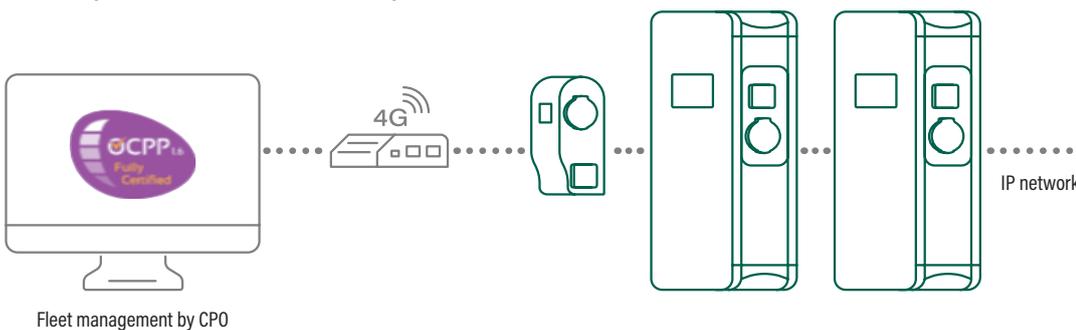
Delegation

REMOTE MANAGEMENT BY A CHARGING COMPANY



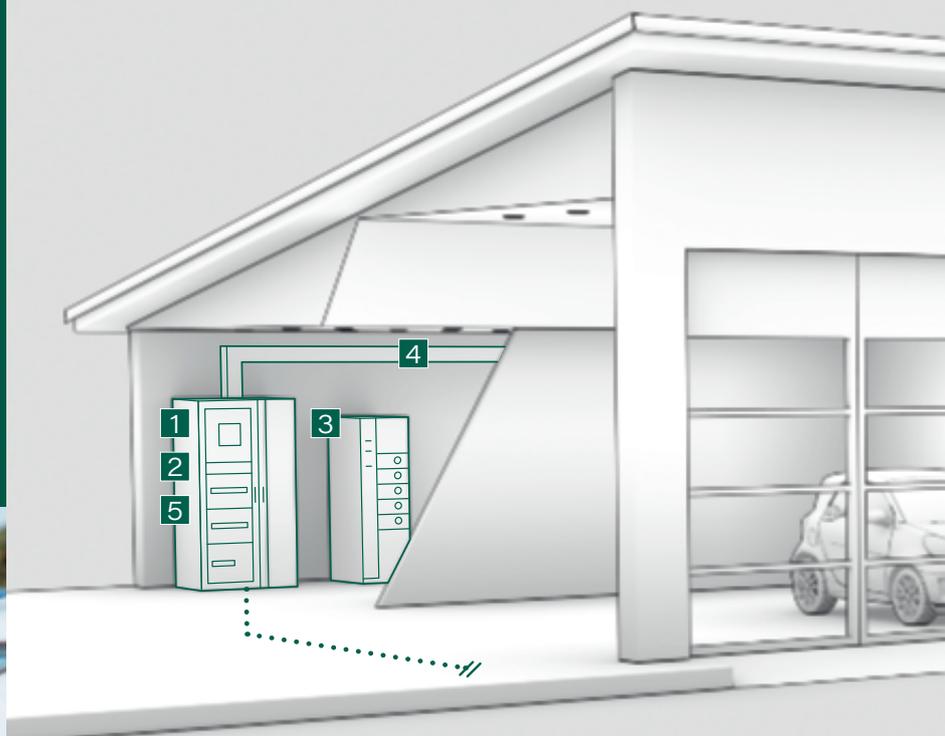
- Access control
- Charging out per kW/h and based on parking time
- Cost of charging out depending on identification
- Smart charging
- Charging station status
- Supervision
- Maintenance

Green'up Premium Plastic and Metal charging stations are compatible with the OCPP 1.6 J protocol



LEGRAND, MORE THAN CHARGING

In addition to charging stations, Legrand, the global specialist in electrical and digital building infrastructures, offers consistent homogeneous solutions, to meet all the requirements of commercial and industrial buildings.



1 Enclosures

Distribution cabinets and enclosures

The answer to all requirements for quality, ruggedness and attractive appearance. Total modularity that can easily adapt to the plant room.



XL³

2 Protection

RCCBs and circuit breakers

A powerful combination of high breaking capacity, high nominal current and compact size.



DX³

3 Continuity of service

UPSs

Versatile solutions to ensure continuity of service and energy quality.

KEOR

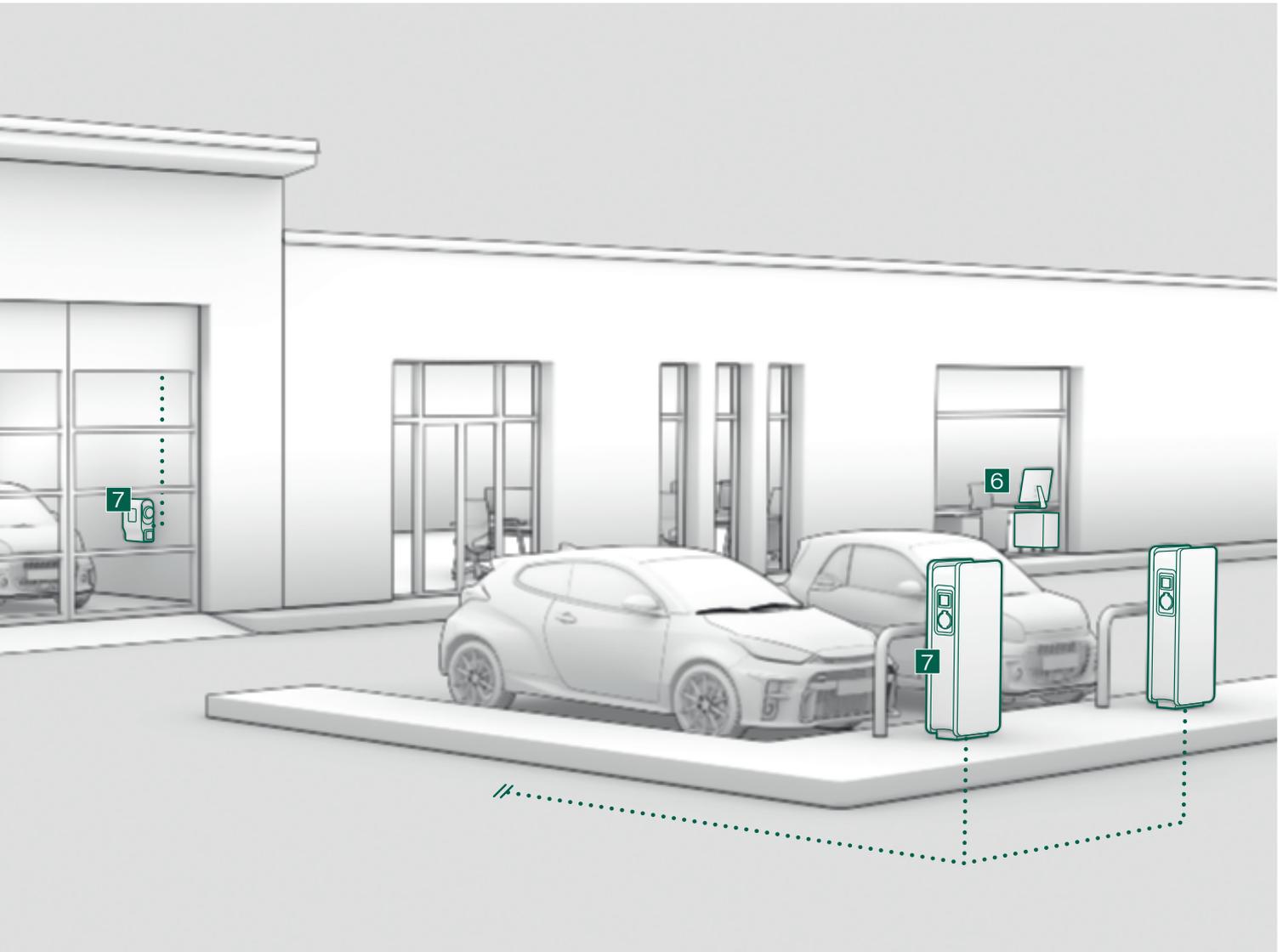


4 Power distribution

Prefabricated busbar trunking, cable trays

Compact, robust systems to ensure ideal power distribution, quick to install and scalable.





5 Energy efficiency

Measure, inform, act

To optimise energy expenditure, measurement and display of the consumption of each charging station, with possible feedback to remote supervision.

EMDX³



6 Control and management

Local and remote

Viewing the status of each charging station, supervision, configuration and testing during installation and maintenance.



7 Charging electric vehicles

Plastic or Metal Green'up Premium charging stations

Rugged, communicating charging stations for charging all types of electric and plug-in hybrid vehicles in complete safety

PLASTIC
GREEN'UP™
PREMIUM



METAL
GREEN'UP™
PREMIUM



Green'up™ sockets and charging stations with integrated DC protection

for electric vehicles and plug-in hybrids

	IP	IK	Charging mode	Power (kW)	Number of charging points	Wall mounting	Free standing	Options		Average charging time (in hours) depending on the vehicle and battery type			
								Communication kit	RFID reader (Used with communication kit Cat.No 0 590 56)	Vehicle battery capacity			
										15/16 kW/h	22/24 kW/h	30/32 kW/h	
SINGLE-PHASE SOCKETS - 230 V													
	Metal	55	10	Mode 2 	3.7	1	0 778 56	-	-	-	4 ⁽²⁾	6 ⁽²⁾	-
	Metal with key	55	10										
SINGLE-PHASE CHARGING STATIONS WITH INTEGRATED DC PROTECTION - 230 V													
	Plastic	44	08	Mode 3 	3.7 / 4.6	1	0 590 05	0 590 05 + 0 590 52	embedded	embedded	4	6	8
					7.4	1	0 590 06	0 590 06 + 0 590 52	embedded	embedded	2	3.5	4.5
	Plastic	44	08	Modes 2 and 3 	3.7 / 4.6	1	0 590 70	0 590 70 + 0 590 52	embedded	embedded	4	6	8
					7.4	1	0 590 71	0 590 71 + 0 590 52	embedded	embedded	2	3.5	4.5
	Metal	55	10	Modes 2 and 3 	3.7 / 4.6	1	0 580 41 + 0 590 53	0 580 41 + 0 590 54	0 590 56	0 590 59 + 0 590 56	4	6	8
					7.4	2	0 580 42 + 0 590 53	0 580 42 + 0 590 54	0 590 56	0 590 59 + 0 590 56	4	6	8
		55	10		7.4	1	0 580 43 + 0 590 53	0 580 43 + 0 590 54	0 590 56	0 590 59 + 0 590 56	2	3.5	4.5
					7.4	2	0 580 44 + 0 590 53	0 580 44 + 0 590 54	0 590 56	0 590 59 + 0 590 56	2	3.5	4.5
THREE-PHASE CHARGING STATIONS WITH INTEGRATED DC PROTECTION - 400 V													
	Plastic	44	08	Mode 3 	22	1	0 590 07	0 590 07 + 0 590 52	embedded	embedded	0.75	1	1.5
	Metal	55	10	Modes 2 and 3 	22	1	0 580 48 + 0 590 53	0 580 48 + 0 590 54	0 590 56	0 590 59 + 0 590 56	0.75	1	1.5
						2	0 580 49 + 0 590 53	0 580 49 + 0 590 54	0 590 56	0 590 59 + 0 590 56	0.75	1	1.5

1: Ready to install version, supplied with RCBO
 2: For vehicles with cable equipped with Legrand Green'up plug
 3: With integrated protection (RCBO)

Green'up™ Access sockets

16 A - 230 V - 16 A EV - for electric vehicles



0 778 56



0 778 57

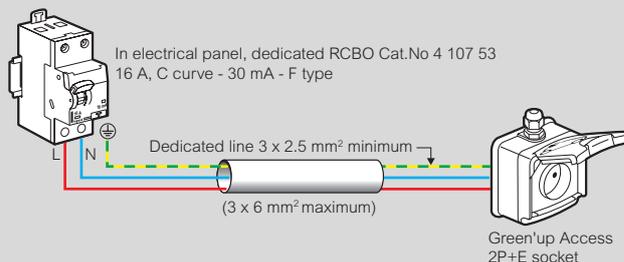
Used for safely charging rechargeable electric and hybrid vehicles which take Mode 2 cord (compatible with Mode 1)
 Connected to the consumer panel via one $3 \times 2.5 \text{ mm}^2$ dedicated line (1 line per socket) protected by 30 mA - 16 A C curve, F type (Hpi) RCBO (or 30 mA F type (Hpi) RCCB + 16 A C curve circuit breaker)
 Recommended installation height: 1.30 m from the floor
 Suitable for residential and workplace use

Pack	Cat.Nos	Mode 1 and Mode 2 sockets - 16 A EV
1	0 778 56	<p>IP 55 - IK 10 flush-mounting - metal socket Suitable for installation in private houses, lock-up garages, parking lots, etc Supplied complete with plate and support Mounting in 1-gang Batibox flush-mounting box depth 50 mm Can be surface mounted with box Cat.No 0 778 90 Dimensions (H x W x D): 110 x 110 x 13.5 mm German standard socket outlet</p> 
1	0 778 57	<p>IP 55 - IK 10 flush-mounting - metal socket with locked flap cover Suitable for installation in private houses, lock-up garages, parking lots, etc Supplied complete with plate and support Mounting in 1-gang Batibox flush-mounting box depth 50 mm Can be surface mounted with box Cat.No 0 778 90 Dimensions (H x W x D): 110 x 110 x 13.5 mm Supplied complete with a unique set of 2 keys in order to restrict access to the socket German standard socket outlet</p> 

Green'up™ Access sockets

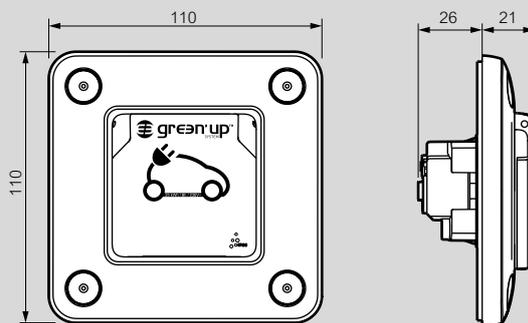
dimensions

Installation principle for an individual Mode 2 socket

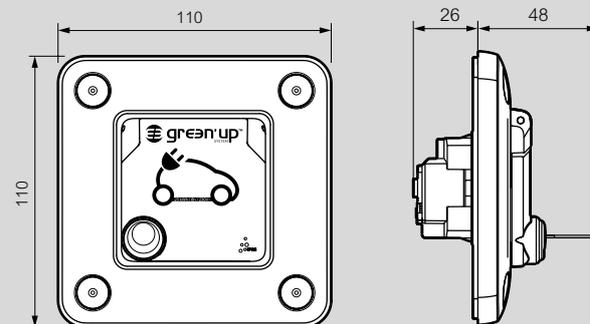


- Can be controlled by clock/switch type control units, etc. (to be ordered separately)
- Use of a surge protective device is recommended

Cat.No 0 778 56



Cat.No 0 778 57



Green'up™ Premium charging stations with integrated DC protection and RFID reader - for electric vehicle charging



Technical characteristics and wiring diagrams **p. 17-18**
 Dimensions **p. 19-20**

For charging all electric vehicles (equipped with single-phase and three-phase chargers) and plug-in hybrids in Mode 2 or Mode 3 in complete safety Compliant with standard IEC 61851-1

Charging station power can be adjusted with adapted protection devices and power supply circuits. Local wireless communication via embedded Bluetooth for configuration and control of charging station via smartphone or tablet using the IOS or Android EV CHARGE App.

Available functions: charging station status, daily charging program, charging station activation/deactivation, power management, firmware updates

Application additional functions: weekly changing program, consumption monitoring.

Integrated communication kit for remote wireless IP communication.

Integrated RFID encoder reader for identification via RFID badge and communication kit for remote management by CPO

Equipped with:

- a 2P+E socket with Green'up Access safety shutter featuring the innovative Green'up system. a Legrand Group technology which activates

"maximum power" mode. ensuring fast. safe charging for 2P+E plugs (Mode 2)

- a 3P+N+E (T2S) Type 2 socket with blanking plates (single-phase or three-phase operation) with pilot wire (Mode 3).

Integrated protection : 6 mA =

Connected and protected from the electrical panel via 1 protected dedicated line (2 dedicated lines for 2-vehicle charging station).

Off-peak control option via contactor. clock and switch (volt-free contact input 12 V_~).

Remote ON/OFF control option (volt-free contact input 12 V_~).

Pack	Cat.Nos	Plastic single-phase charging stations - Mode 3
1	0 590 05	IP 44 - IK 08 Wall mounting charging stations to be equipped with pedestal Cat.No 0 590 52 for fixing to the ground 3.7/4.6 kW - 16/20 A For charging 1 vehicle 7.4 kW - 32 A Power adjustment option: - 3.7/4.6/5.7/7.4 kW - 16/20/25/32 A
1	0 590 06	For charging 1 vehicle
Plastic single-phase charging stations - Modes 2 and 3		
1	0 590 70	IP 44 - IK 08 Wall mounting charging stations to be equipped with pedestal Cat.No 0 590 52 for fixing to the ground 3.7/4.6 kW - 16/20 A For charging 1 vehicle 7.4 kW - 32 A Power adjustment option: - 3.7/4.6/5.7/7.4 kW - 16/20/25/32 A
1	0 590 71	For charging 1 vehicle

Pack	Cat.Nos	Plastic three-phase charging station - Mode 3
1	0 590 07	IP 44 - IK 08 Wall mounting charging stations to be equipped with pedestal Cat.No 0 590 52 for fixing to the ground 22 kW - 32 A Power adjustment option: - 11/15/18/22 kW - 16/20/25/32 A For charging 1 vehicle

1: Charging stations compliant with EV Ready specifications for construction regulations applicable to these products

Green'up™ Premium charging stations with integrated DC protection

for electric vehicle charging



0 580 42 + 0 590 54
(p. 16)

0 580 42 + 0 590 53
(p. 16)

Technical characteristics and wiring diagrams **p. 17-18**
Dimensions **p. 19-20**

For charging all electric vehicles (equipped with single-phase and three-phase chargers) and plug-in hybrids in Mode 2 or Mode 3 in complete safety Compliant with standard IEC 61851-1

Charging station power can be adjusted with adapted protection devices and power supply circuits. Local wireless communication via embedded Bluetooth for configuration and control of charging station via smartphone or tablet using the IOS or Android EV CHARGE App.

Available functions: charging station status, daily charging program, charging station activation/deactivation, power management, firmware updates

Application additional functions: weekly changing program, consumption monitoring

Remote wireless IP communication with communication kit Cat.No 0 590 56 (p. 17)

Equipped with:

- a 2P+E socket with Green'up Access safety shutter featuring the innovative Green'up system, a Legrand Group technology which activates

"maximum power" mode, ensuring fast, safe charging for 2P+E plugs (Mode 2)⁽²⁾

- a 3P+N+E (T2S) Type 2 socket with blanking plates (single-phase or three-phase operation) with pilot wire (Mode 3).

Integrated protection : 6 mA =

Connected and protected from the electrical panel via 1 protected dedicated line (2 dedicated lines for 2-vehicle charging station)

Off-peak control option via contactor, clock and switch (volt-free contact input 12 V₌)

Remote ON/OFF control option (volt-free contact input 12 V₌)

Pack	Cat.Nos	Metal single-phase charging stations - Modes 2 and 3
		IP 55 - IK 10 Must be equipped with the following for: - wall mounting version: a mounting kit supplied with a metal front cover Cat.No 0 590 53 - free standing version: a pedestal supplied with a metal front cover Cat.No 0 590 54
		3.7/4.6 kW - 16/20 A
1	0 580 41	For charging 1 vehicle
1	0 580 42	For charging 2 vehicles simultaneously
		7.4 kW - 32 A
		Power adjustment option: - 3.7/4.6/5.7/7.4 kW - 16/20/25/32 A
1	0 580 43	For charging 1 vehicle
1	0 580 44	For charging 2 vehicles simultaneously

Pack	Cat.Nos	Metal three-phase charging stations - Modes 2 and 3
		IP 55 - IK 10 Must be equipped with the following for: - wall mounting version: a wall mounting kit supplied with a metal front cover Cat.No 0 590 53 - free standing version: a mounting pedestal supplied with a metal front cover Cat.No 0 590 54
		22 kW - 32 A
		Power adjustment option: - 11/15/18/22 kW - 16/20/25/32 A
1	0 580 48	For charging 1 vehicle
1	0 580 49	For charging 2 vehicles simultaneously

1: Charging stations compliant with EV Ready specifications for construction regulations applicable to these products
2: For vehicles with cable equipped with Legrand Green'up plug

Green'up™ Premium charging stations equipment for wall mounting or fixing to the ground

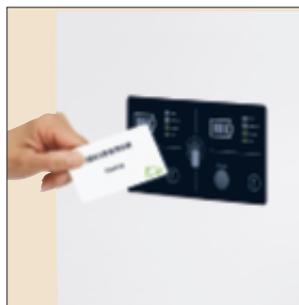


0 590 52

Dimensions p. 19-20

Pack	Cat.Nos	Equipment for mounting charging stations on the wall or fixing to the ground
1	0 590 52	For plastic charging stations Pedestal for fixing plastic charging stations to the ground Option to integrate Plexo ³ boxes Cat.No 0 019 04/06/08(4 to 16 modules) for the protection devices
1	0 590 53	For metal charging stations Wall mounting kit with metal front cover
1	0 590 54	Pedestal for fixing metal charging stations to the ground Supplied with metal front cover Option to integrate protection devices on plates or rail chassis (dimensions equivalent to Atlantic box 600 x 400 mm)

Green'up™ Premium charging stations communication options



Identification via RFID badge
0 590 59 + 0 590 56



0 767 11

Pack	Cat.Nos	Communication kit
1	0 590 56	For controlling functions embedded in the charging station and configuring the charging station remotely from a smartphone or PC via IP (RJ 45) or Wi-Fi IP communication For connecting the charging station to the installation's IP network and ensuring its compatibility with the following protocols: - OCPP 1.6 and 2.0 - MODBUS RS 485
1	0 590 59	RFID reader RFID system (identification via RFID badge, integrated RFID encoder reader) available on metal charging stations with communication kit Cat.No 0 590 56 Supplied with 1 badge to be activated Additional badges to be ordered separately ISO format Mifare Classic technology Cat.No 0 767 11
1	0 767 11	Badge for RFID reader Mifare contactless badge ISO format (50 x 80 mm) Chip: 13.56 MHz Standard 1 kB memory
1	4 149 47	Energy management multi-support web servers Allow remote configuration, test, control and visualization, via a web browser on PCs, smartphones, web viewers, tablet computers, of data collected from: protection devices (DX ³ add-on modules with integrated measurement control unit, DPX ³ and DMX ³), EMDX ³ electricity meters and multi-function measuring units, CX ³ energy management system and Green'up charging stations for electric vehicles. Direct IP connection rail mounting Power supply: 9 to 28 V = with the help of a single-phase switching mode power supply Cat.No 1 467 21 (see Legrand general catalog) to be ordered separately
1	4 149 48	For 10 Modbus addresses or 10 pulse modules
1	4 149 49	For 32 Modbus addresses or 32 pulse modules
1	4 149 49	Fixing on plate For 255 Modbus addresses or 255 pulse modules

Number of modules

4

4

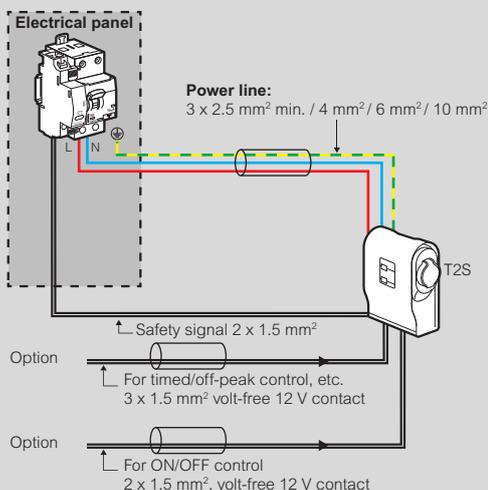
Green'up™ Premium charging stations with integrated DC protection

for electric vehicle charging

Installation principle

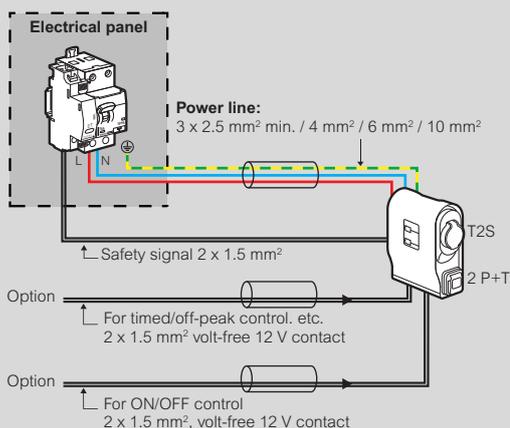
Note: the installation of a surge protective device is recommended.

Single-phase charging stations - Mode 3



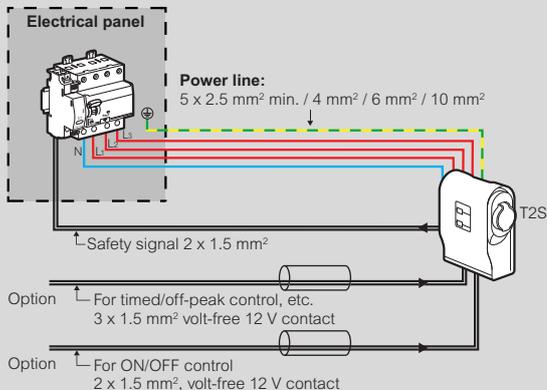
Cat.Nos	0 590 05		0 590 06			
Power setting (kW)	3.7	4.6	3.7	4.6	5.8	7.4
Charging station rating (A)	16	20	16	20	25	32
Power line protection rating	20 A, C curve	25 A, C curve	20 A, C curve	25 A, C curve	32 A, C curve	40 A, C curve
RCD	30 mA F type					
Power line protection RCBO (6000/10 kA)	4 110 95	4 110 96	4 110 95	4 110 96	4 110 97	4 110 98
T2S line csa (mm² minimum)	2.5	4	2.5	4	6	10
Shunt trip / safety signal	4 062 76	4 062 76	4 062 76	4 062 76	4 062 76	4 062 76
Surge protective device	0 039 51	0 039 51	0 039 51	0 039 51	0 039 51	0 039 51

Single-phase charging stations - Modes 2 and 3



Cat.Nos	0 590 70		0 590 71			
Power setting (kW)	3.7	4.6	3.7	4.6	5.8	7.4
Charging station rating (A)	16	20	16	20	25	32
Power line protection rating	20 A, C curve	25 A, C curve	20 A, C curve	25 A, C curve	32 A, C curve	40 A, C curve
RCD	30 mA F type					
Power line protection RCBO (6000/10 kA)	4 110 95	4 110 96	4 110 95	4 110 96	4 110 97	4 110 98
Power line csa (mm² minimum)	2.5	4	2.5	4	6	10
Shunt trip / safety signal	4 062 76	4 062 76	4 062 76	4 062 76	4 062 76	4 062 76
2P+E line protection	included	included	included	included	included	included
Surge protective device	0 039 51	0 039 51	0 039 51	0 039 51	0 039 51	0 039 51

Three-phase charging stations - Mode 3



Cat.Nos	0 590 07			
Power setting (kW)	11	15	18	22
Charging station rating (A)	16	20	25	32
Power line protection rating	20 A, C curve	25 A, C curve	32 A, C curve	40 A, C curve
RCD	30 mA F type			
Power line protection MCB (6000/10 kA)	4 112 45	4 112 46	4 112 47	4 079 32 + 4 105 34
Power line csa (mm² minimum)	2.5	4	6	10
Shunt trip / safety signal	4 062 76	4 062 76	4 062 76	4 062 76
Surge protective device	0 039 53	0 039 53	0 039 53	0 039 53

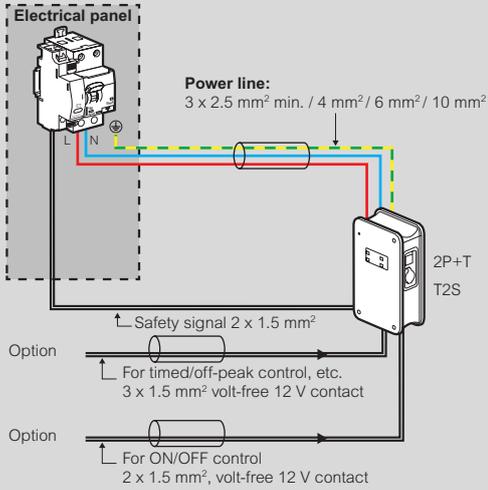
Green'up™ Premium charging stations with integrated DC protection

for electric vehicle charging (continued)

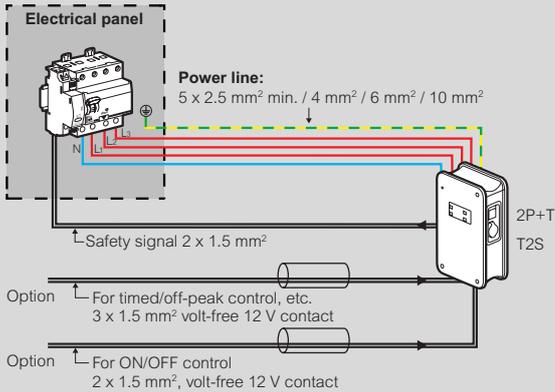
Installation principle

Note: the wiring must be doubled up for a 2-vehicle charging station. The installation of a surge protective device is recommended.

Single-phase charging stations - Modes 2 and 3



Three-phase charging stations - Modes 2 and 3



Cat.Nos	0 580 41/42		0 580 43/44			
	Power setting (kW)	3.7	4.6	3.7	4.6	5.8
Charging station rating (A)	16	20	16	20	25	32
Power line protection rating	20 A, C curve	25 A, C curve	20 A, C curve	25 A, C curve	32 A, C curve	40 A, C curve
RCD	30 mA F type		30 mA F type			
Power line protection RCBO (6000/10 kA)	4 110 95	4 110 96	4 110 95	4 110 96	4 110 97	4 110 98
Power line csa (mm² minimum)	2.5	4	2.5	4	6	10
Shunt trip / safety signal	4 062 76	4 062 76	4 062 76	4 062 76	4 062 76	4 062 76
2P+E line protection	included	included	included	included	included	included
Surge protective device	0 039 51	0 039 51	0 039 51	0 039 51	0 039 51	0 039 51

Cat.Nos	0 580 48/49			
	Power setting (kW)	11	15	18
Charging station rating (A)	16	20	25	32
Power line protection rating	20 A, C curve	25 A, C curve	32 A, C curve	40 A, C curve
RCD	30 mA F type	30 mA F type	30 mA F type	30 mA F type
Power line protection MCB (6000/10 kA)	4 112 45	4 112 46	4 112 47	4 079 32 + 4 105 34
Power line csa (mm² minimum)	2.5	4	6	10
Shunt trip / safety signal	4 062 76	4 062 76	4 062 76	4 062 76
2P+E line protection	included	included	included	included
Surge protective device	0 039 53	0 039 53	0 039 53	0 039 53

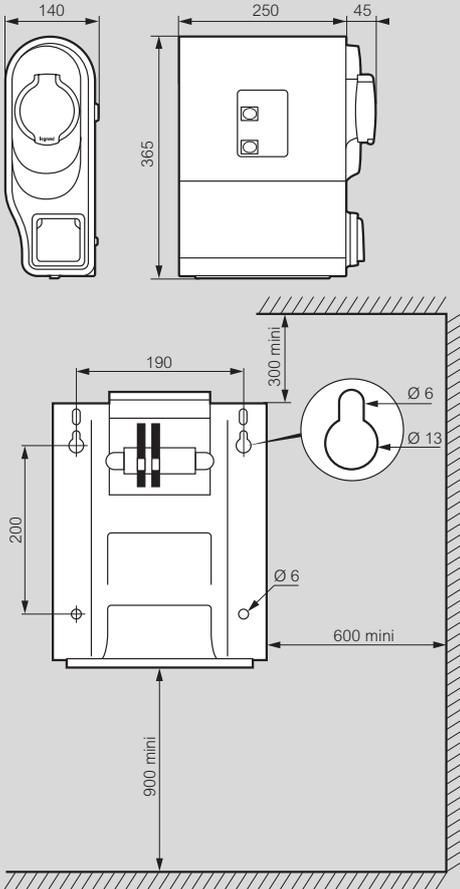
Green'up™ Premium charging stations

for electric vehicle charging

■ Dimensions and mounting for plastic charging stations (mm)

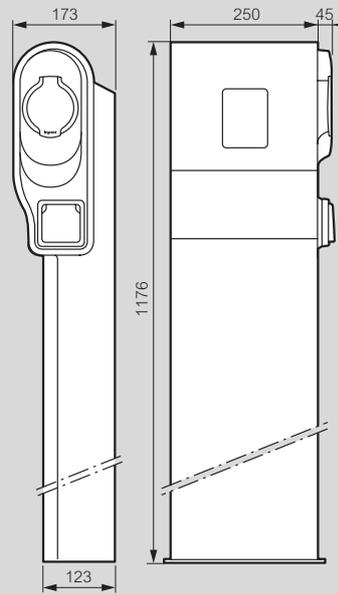
Wall mounting charging stations

Cat.Nos 0 590 05/06/07/70/71

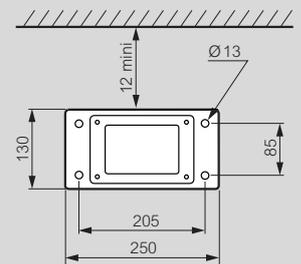


Free standing charging stations

Cat.Nos 0 590 05/06/07/70/71 + 0 590 52



Fixing to the ground



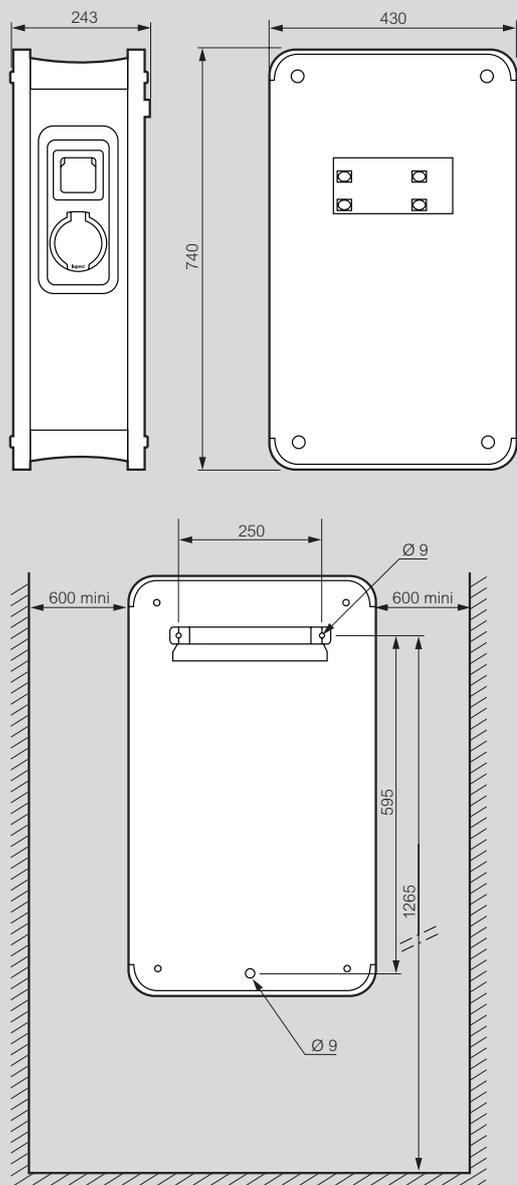
Green'up™ Premium charging stations

for electric vehicle charging (continued)

■ Dimensions and mounting for metal charging stations

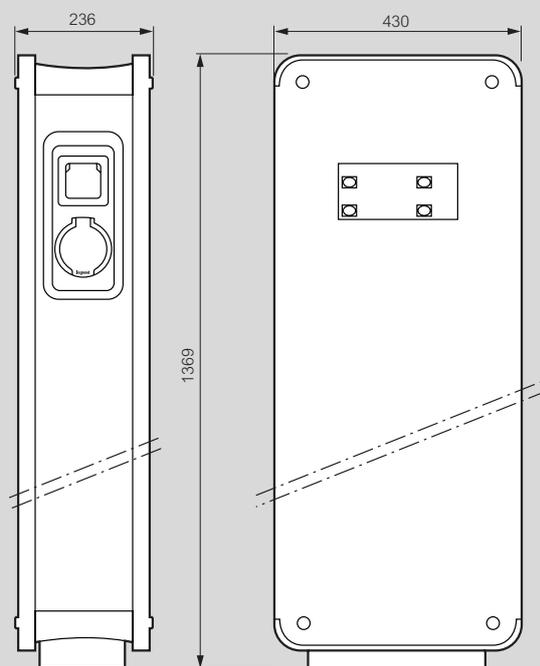
Wall mounting charging stations with front cover

Cat.Nos 0 580 41/42/43/44/48/49 + 0 590 53

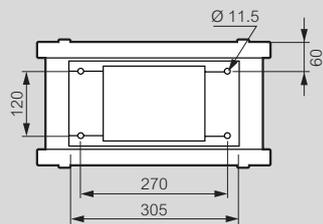


Free standing charging stations with front cover

Cat.Nos 0 580 41/42/43/44/48/49 + 0 590 54



Fixing to the ground





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