simon

Simon|SM34

RESIDENTIAL

simon

Simon|SM34

The Simon SM34 is a compact recharging device that is also practical and easy to install, manage and maintain. The Simon SM34 allows users to control the power available in their homes and optimise their charging schedule, in addition to a whole series of energy management functionalities.
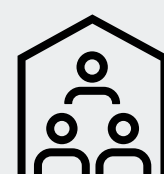
Simon|SM34

Simon SM34 is a solution for all kinds of environments, from property owner communities to single-family homes.

Single-family homes

Property owner communities

Practical and compact

The Simon SM34 is a **practical** and **compact range** that adapts to the needs of each installation. It is primarily designed for installation in single-family homes, but has the added advantage of being able to systematize a network of chargers for communities using the Electron Manager.

When installed on its own, it uses **Bluetooth** communications, which allows it to be configured and managed through the **Simon Plug&Drive App**.

When installed as a multipoint solution, the **Electron Manager** configures and manages the system via PC or web server. Furthermore, this device offers the benefit of intelligent load balancing for devices in use depending on vehicle demand.
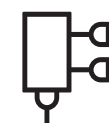
IEC 62196 Type 2 socket

The Simon SM34 range is available with an IEC 62196 Type 2 socket with a choice of socket base or 5m hose.

Architectural versatility

The Simon SM34 is designed to be wall mounted, although there is also the option of adding a vertical support for column installation with capacity for one or two devices.

MID-certified secondary meter

For community installations, SM34 can include a MID-certified meter, which is suitable for re-billing for users' consumption.

Home power protection and management

All SM34 models are compatible with an easy-to-install power modulator that can balance the recharging point's power with the house's overall energy consumption.

CONFIGURATION OF **CONNECTORS**

IEC 62196 Type
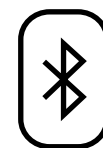2 Socket

5m cable with
Type 2 connector

Simon Plug & Drive

Control and configure charging with your smartphone

Bluetooth-enabled SM34 charging points are compatible with the Plug & Drive application, which allows you to manage and configure your recharging point:

- Activating/stopping the recharging point.
- Scheduling recharge start times.
- Contracted power configuration for power management.
- Option of defining profiles for photovoltaic installations (Grid, Mix, Solar)

CONFIGURE THE AVAILABLE POWER

Sets the amount of contracted power

CONFIGURE THE RECHARGING TIME

Save money with scheduling by charging when electricity rates are most economical
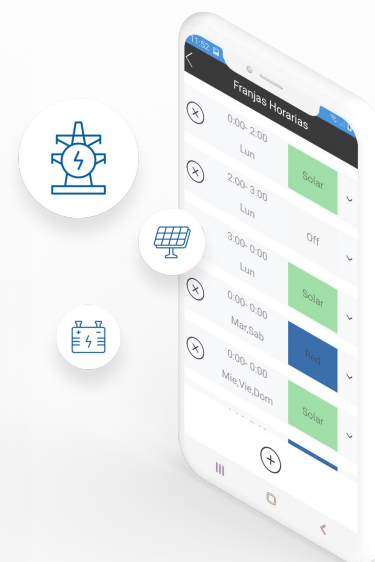
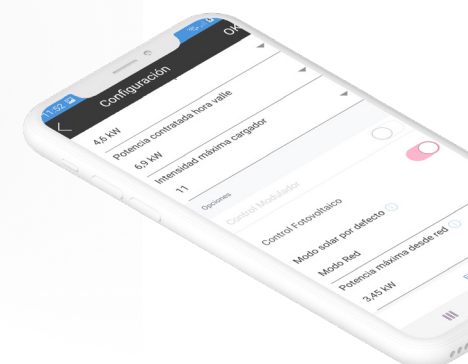### CHOOSE RENEWABLE ENERGY SOURCES

Charge your vehicle using solar energy generated by your photovoltaic panels

Download the App and start enjoying the Simon Plug&Drive experience

Download on the App Store

GET IT ON Google Play

ACCESSORIES FOR
## **SINGLE-POINT** INSTALLATION

RFID reader for user identification

Accessory for adding an RFID card reader to the recharging point. It includes 2 RFID cards for using the point, as well as a sticker for indicating the identification area on the front.

Home power modulator

An accessory that enables dynamic load balancing based on overall household consumption, helping to avoid excess contracted power usage and to make the most of the installation.

Modulator for photovoltaic installation

Modulator for home installation
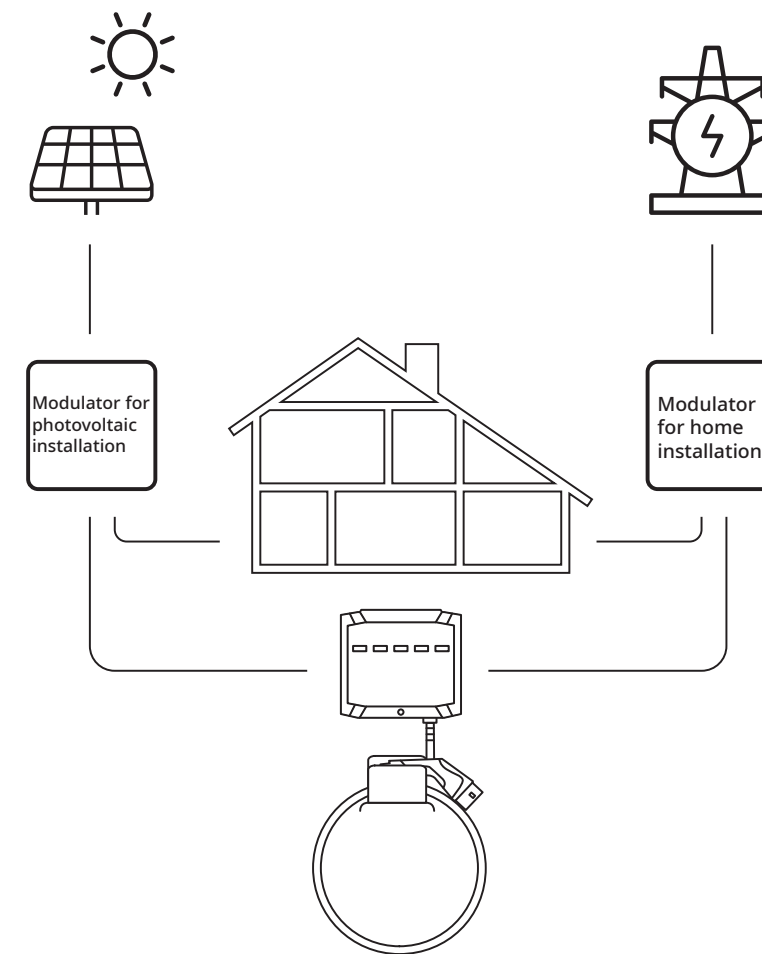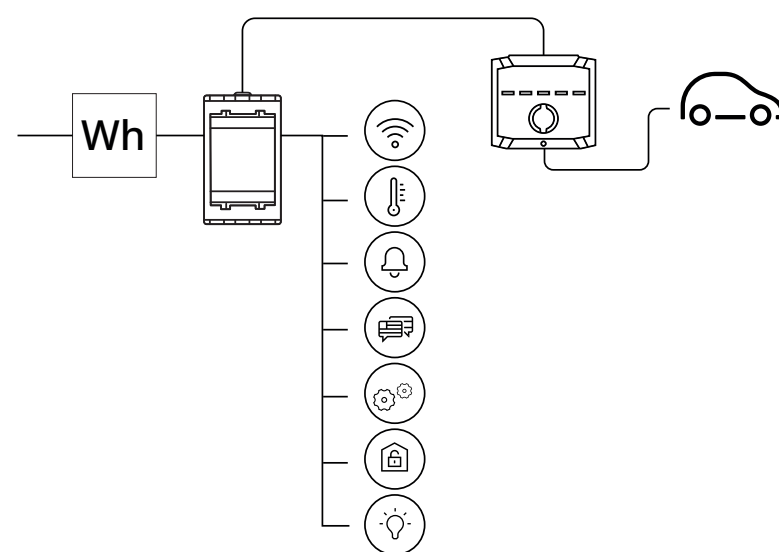
Photovoltaic system modulator

The Simon Plug & Drive app allows users to set different charging profiles for electric vehicles, using either solar energy or hybrid energy, or a mixture of solar and grid energy, to make charging faster and more sustainable. For installations in homes with photovoltaic panels, a photovoltaic installation modulator is required. This allows the available load to be dynamically balanced and optimises energy use.
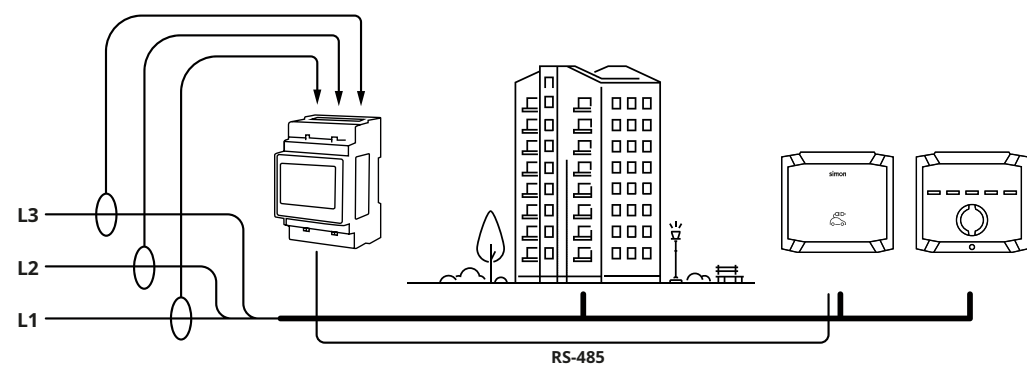
Electric protections

The Simon SM34 is designed to meet all required protection regulations, depending on users' needs. It even includes an automatic meter reset device for communities with private meter bypass, making installation even easier.

ACCESSORIES FOR
MULTIPOINT INSTALLATION

RS-485

L3
L2
L1

RS-485

Network analysers

The Electron Manager needs the network analyser to know how much power is available in the installation so that it can correctly perform intelligent load balancing. This should be used to avoid overloading when there are additional elements, apart from chargers, connected to the system's power supply line.

RS-485

ETHERNET   SERVER
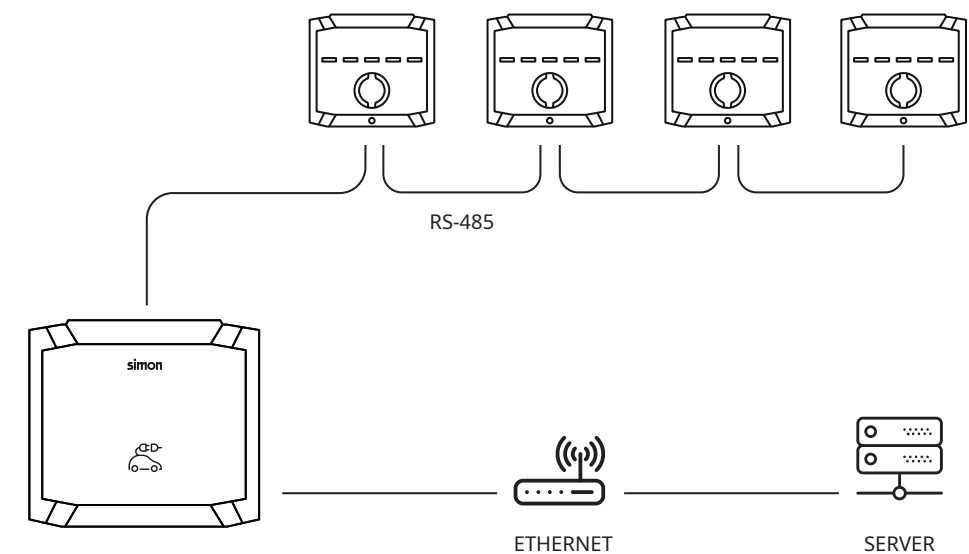
Intelligent load balancing solution

The Electron Manager is an accessory that allows you to intelligently balance the load depending on the recharging points in use and vehicle demand. By doing so, you can optimise loads according to the kW available and satisfy each vehicle's needs.

This intelligent balancing system is recommended for all types of multipoint installations. The Electron Manager can manage up to 128 sockets and allows configuration and control via PC or web server, thereby facilitating the identification of users with access to the load via RFID cards.
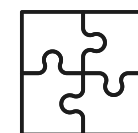
Compatible solution

The Electron Manager solution is compatible with the full range of SIMON recharging points: NEON, SM20 and SM34.

DIMENSIONS

264 150

204

229 116

204

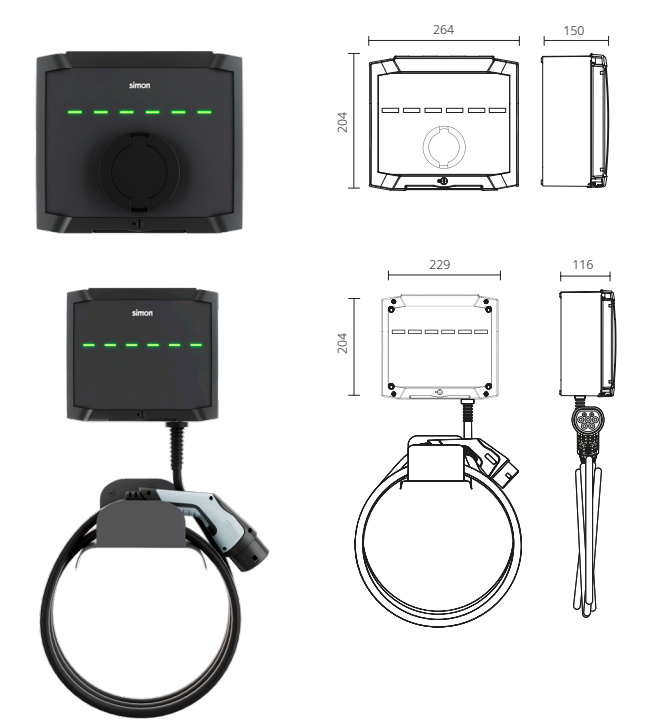## GENERAL FEATURES

Maximum Intensity	32 A
Power configuration	Through built-selector or through the APP for Bluetooth-enabled equipment
Charging mode	Mode 3
Status indicator	Status LED on the front
Cable support	Painted galvanized steel (Cable models only)
Communications	RS485 (multipoint), optional Bluetooth
Safety	Connector lock
Activation	Plug & Play Plug & Drive APP (Bluetooth-enabled equipment) RFID (Equipment with an RFID reader accessory)

PHYSICAL FEATURES AND MATERIALS

IP	IP54
IK	IK10
Environmental conditions	-30 °C / +50 °C
Housing	ABS
Weight	2.5 kg
Dimensions for equipment with cable	324 mm x 700 mm x 146 mm
Dimensions for equipment with T2 socket	264 mm x 235 mm x 150 mm
Finish	Simon Standard
Maintenance	Front opening
Cable section admitted	Up to 16 mm2
Compatibility	Electron Manager Power modulator for dynamic home load balancing Photovoltaic modulator RFID activation accessory Bluetooth connectivity accessory

ELECTRICAL PARAMETERS

Supply voltage	230 - 400 Vac
Frequency	50 Hz
Maximum Intensity/outlet	32 A
Max power/input	7.4 kW / 22kW A (lower values configurable).

STANDARD REFERENCES

Art. No.	Controlled via app	Power	MID meter	Connector	Protections
0650041-000		7.4 kW	-	T2 Socket	-
0650041-100		7.4 kW	-	T2 Socket	Automatic C-Curve + Class A Differential 30 mA
0650141-000		7.4 kW	MID meter	T2 Socket	-
0650141-100		7.4 kW	MID meter	T2 Socket	Automatic C-Curve + Class A Differential 30 mA
0651041-000	Bluetooth + Plug & Drive APP	7.4 kW	-	T2 Socket	-
0651041-100	Bluetooth + Plug & Drive APP	7.4 kW	-	T2 Socket	Automatic C-Curve + Class A Differential 30 mA
0650042-000	-	7.4 kW	-	5 m cable T2 straight	-
0650042-100	-	7.4 kW	-	5 m cable T2 straight	Automatic C-Curve + Class A Differential 30 mA
0650042-300	-	7.4 kW	-	5 m cable T2 straight	Auto. C-Curve + Class A Differential 30 mA + Permanent and Transient Overvoltages
0650042-400	-	7.4 kW	-	5 m cable T2 straight	Automatic C-Curve + Class A Differential 30 mA + Permanent and transient overvoltages + Meter resetting device
0650142-000	-	7.4 kW	MID meter	5 m cable T2 straight	-
0650142-100	-	7.4 kW	MID meter	5 m cable T2 straight	Automatic C-Curve + Class A Differential 30 mA
0650142-300	-	7.4 kW	MID meter	5 m cable T2 straight	Auto. C-Curve + Class A Differential 30 mA + Permanent and Transient Overvoltages
0651042-000	Bluetooth + Plug & Drive APP	7.4 kW	-	5 m cable T2 straight	-
0651042-100	Bluetooth + Plug & Drive APP	7.4 kW	-	5 m cable T2 straight	Automatic C-Curve + Class A Differential 30 mA
0651042-300	Bluetooth + Plug & Drive APP	7.4 kW	-	5 m cable T2 straight	Auto. C-Curve + Class A Differential 30 mA + Permanent and Transient Overvoltages
0651042-400	Bluetooth + Plug & Drive APP	7.4 kW	-	5 m cable T2 straight	Auto. C-Curve + Class A Differential 30 mA + Permanent and transient overvoltages + Meter reset device
0650021-000	-	22 kW	-	T2 Socket	-
0650021-100	-	22 kW	-	T2 Socket	Automatic C-Curve + Class A Differential 30 mA
0650221-000	-	22 kW	MID meter	T2 Socket	-
0651021-000	Bluetooth + Plug & Drive APP	22 kW	-	T2 Socket	-
0651021-100	Bluetooth + Plug & Drive APP	22 kW	-	T2 Socket	Automatic C-Curve + Class A Differential 30 mA
0650022-000	-	22 kW	-	5 m cable T2 straight	-
0650022-200	-	22 kW	-	5 m cable T2 straight	Automatic C-Curve + Class A Differential 30 mA
0650222-000	-	22 kW	MID meter	5 m cable T2 straight	-
0651022-000	Bluetooth + Plug & Drive APP	22 kW	-	5 m cable T2 straight	-
0651022-200	Bluetooth + Plug & Drive APP	22 kW	-	5 m cable T2 straight	Automatic C-Curve + Class A Differential 30 mA

ACCESSORIES

INTELLIGENT LOAD BALANCING

Art. No.	Description
0694002-000	Simon Electron Manager

POWER MODULATORS

Art. No.	Description
0695000-030	SM34 Residential Accessory: Single-phase home dynamic load manager
0695000-040	SM34 Residential Accessory: Three-phase home dynamic load manager
0695000-050	SM34 Residential Accessory: Single-phase photovoltaic modulator
0695000-060	SM34 Residential Accessory: Three-phase photovoltaic modulator

NETWORK ANALYSERS

Art. No.	Description
0691100-000	Single-phase SPL Analyser Accessory + 1 toroid <100 A
0691200-000	Single-phase SPL Analyser Accessory + 1 toroid <200 A
0691300-000	Single-phase SPL Analyser Accessory + 1 toroid <300 A
0692100-000	Three-phase SPL Analyser Accessory + 3 toroids <100 A
0692200-000	Three-phase SPL Analyser Accessory + 3 toroids <200 A
0692300-000	Three-phase SPL Analyser Accessory + 3 toroids <300 A

RFID IDENTIFICATION

Art. No.	Description
0695000-010	SM34 Residential Accessory: RFID reader + 2 RFID cards
0603000-039	Pack of 10 MIFARE RFID cards
0603001-039	Pack of 25 MIFARE RFID cards

PEDESTALS

Art. No.	Description
0693040-000	Simple Tower SM34 for equipment with 5m Cable
0693050-000	Double Tower SM34 for equipment with 5m Cable
0693060-000	Simple Tower SM34 for equipment with T2 Socket
0693070-000	Double Tower SM34 for equipment with T2 Socket