

Genion One

The optimal solution for charging EVs at home with photovoltaic power

Application

The Genion One is a device designed to optimise photovoltaic power in the home for charging electric vehicles. It allows you to manage different modes in order to save on your electricity bill by making use of the best tariffs, charge your vehicle with the maximum power available or use only 100% green energy. It is essential for more sustainable and safe home charging.



Concept Design

The Genion One is designed for simple installation and can be easily added to the home network. It is also easy for users and installers to set up and control via an intuitive web app. Plus, it is equipped with the latest electrical safety technology so you can charge vehicles reliably and with complete peace of mind.



Product highlights

For the Installer

- **Easy assembly and installation**, meaning it can be conveniently added as an accessory to a household electrical panel, thanks to its split-core current transformers.
- **Simple setup** through the web app, allowing for almost automatic integration with the photovoltaic installation.
- **Compatible with any brand of inverters** on the market thanks to its integrated electricity meter and its own transformers.
- **Protects the user's home installation**, preventing power surges, while **maximising the charging speed** of the electric vehicle.

For the User

- **Maximises saving** thanks to the option to schedule charging at times with tariffs that have the lowest energy prices on the final bill.
- **Makes the most of the available power**, offering the possibility of charging with 100% clean energy.
- **Control and monitor the power** of the your home's self-consumption system at all times thanks to the web app accessible via ethernet or Wi-Fi.
- **Guaranteed charging** thanks to the integrated energy meter and high-precision transformers, which minimise over-consumption during electric vehicle charging.
- **With up to 3 management modes** depending on the user's needs: EV charging with 100% green energy; with the lowest tariffs; or with the maximum available power.
- **Functional and aesthetic**, winner of the Red Dot and Silver Delta international industrial design awards.



Product compatible with
eHome LINK

Genion One

General specifications

Power supply	85 ... 264 VAC / 120 ... 300 VDC
Frequency	47 / 63 Hz
Consumption (AC / DC)	8.8 ... 10.5 VA / 6.4 ... 6.5 W
Temperature range	-20 ... +50 °C
Humidity range	5 ... 95 %
Maximum operating altitude	2000 m
Enclosure material	UL94 - V0 self-extinguishing polycarbonate
Rating	IP20
Dimensions (W x H x L)	105 x 88.5 x 48 mm (6 DIN rail modules)
Weight	150 kg
Mounting	DIN rail 46277 (EN 50022)
Plugs	Plug-in terminals. Max. cable cross-section 1.5 mm ²
Shock protection	Class II double insulation
Insulation	3 kVac
Installation category	CAT III 300 V

Wi-Fi	802.11 b/g/n (2.4 GHz)
Interface series - Type	RS-485 (half-duplex). Galvanic isolation
Interface series - Speed	9600 ... 115200 bps
Network interface - Type	Ethernet
Network interface - Speed	10/100 Mbps
Nominal voltage (Un)	285 Vac (f - N) / 480 Vac (f - f)
Voltage measurement range	5 ... 120% Un
Nominal current (In)	In / 1 A
Current measurement range	2 ... 120% In
Active power measurement	Class 1
Reactive power measurement	Class 2
Standards	UNE EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4

Electrical characteristics

Frequency	50/60 Hz
Secondary circuit current	250 mA
Metering / Single-phase	Single-phase
Precision class	3

Enclosure characteristics

Enclosure rating	V0
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