Genion One MC

Genion One MC, Home manager for EV charging with self-supply

Code: V40702. CONSULTAR DISPONIBILIDAD

> Protocol: Modbus RTU

> Clamp: 3 MC1-20-50/100/150A

> Communications: RS-485 | Ethernet | Wi-Fi

Description

Energy flow manager for home installations with electric vehicle chargers and self-supply. Compatible with every single-phase eHome Solar models and with any solar inverter on the market. **Genion One** automatically manages the net hourly metering, feeding its energy into the grid when it is not generating enough and subsequently consuming this electricity.

It includes a web application to monitor and control the installation via Wi-Fi from any mobile device. Thanks to the installation wizard, you can automatically set up the number of electrical vehicle chargers and current transformers in the home.

Genion One has 3 modes of electricity flow management:

- Just Green: Charges the electric vehicle at no cost using only excess solar power.
- Smart Mix: Charges intelligently based on the configurations defined for each time period.
- Boost: Charges at 100% of the available power regardless of the programmed schedule.

Application

Genion One focuses on home use, making it the ideal complement for our eHome Solar. It is also easy to install and start up.
This product is specially designed for installations with self-supply systems and home charging points.

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Genion One, Home manager for charging vehicles

Code: V40702.

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	4,5 ... 6,5 VA
Frequency	47 ... 63 Hz
Nominal voltage	90 ... 264 V~

Mechanical characteristics

Size (mm) width x height x depth	105 x 89 x 49.5 (mm)
Envelope	Polycarbonate UL94 - Self-extinguishing V0
Fastening	DIN rail
Weight (kg)	0,15

Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	5...95 %
Storage temperature	-25...+75 °C
Working temperature	-10...+50 °C

Current measurement circuit

Installation category	CAT III 300 V
Nominal current (In)	... / 250 mA
Phase current measuring range	2...120 % In
Maximum pulse current	3 x In A
Minimum current measurement	1 % In

Voltage measurement circuit

Installation category	CAT III 300 V
Input impedance	1 MΩ
Voltage measuring range	5 ... 120 % Un
Nominal voltage	230 V ~ (Ph-N) / 480 V ~ (Ph-Ph)

Communication Network

Technology / Type	Ethernet 10/100 Base TX (TCP/IP)

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V
Standards	UNE-EN 61010-1, UNE-EN 61010-2-30, UNE-EN 60068-2-1, UNE-EN 60068-2-2, UNE-EN 60068-2-78, UNE-EN IEC 61326-1

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Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010)

User interface

LED	4

Memory

Type	PSRAM (8 MB) & SPI Flash (16 MB)

Measurement accuracy

Active energy measurement (kWh)	Class 1

Serial communication

Protocol	Modbus /RTU
Technology / Type	RS-485

Wireless communication

Band	2,4 GHz
Technology / Type	Wi-FI

Genion One is compatible with the eHOME Solar range. It includes a web app for dynamically managing the photovoltaic generation and the charging point. It can also manage up to two eHOME Solar devices.

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Dimensions

Connections