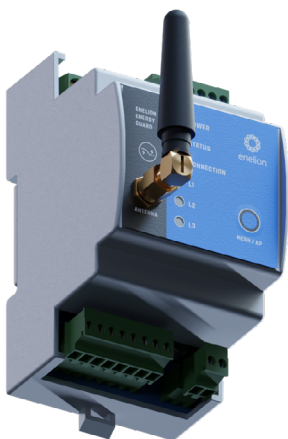


ENERGY GUARD 3.0

Intelligent guardian
of your connection

ENELION ENERGY GUARD 3.0 is a device that monitors the energy consumption of the whole building – from a single household to the largest office parks. Based on the power ordered from the energy supplier and the current energy consumption measured by Energy Guard, it is possible to obtain information on how much power can be directed for EV charging. Energy Guard can also be used in a chain of charging stations (parking lots, shopping centres, fleet car parks), which allows the use of the full potential of the energy supplied.

The current measurements are taken using measuring coils, which simplifies the installation process.



USAGE

- extension of DLB functionality*
- monitoring power in the building
- Intelligent power management of the charging station's power output based on the current consumption of other devices in the local power grid
- overload protection
- dynamic response to emerging power load
- unused power is allocated to EV charging

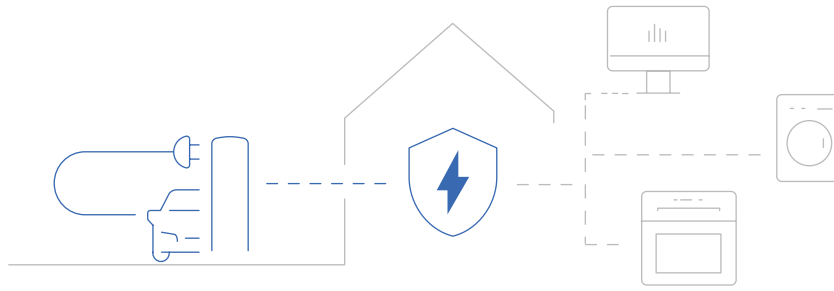
CONNECTION TO ENELION LUMINA CHARGER VIA WI-FI MESH AND CAN bus**

- measurement of the whole power network together with charging stations
- measurement of the whole power network without charging stations
- configuration via a dedicated web panel on the EEG itself
- possibility of individual selection of current transformers to 5000 A
- power supply from an external 12 V power supply unit
- upgradeable firmware via the configuration panel

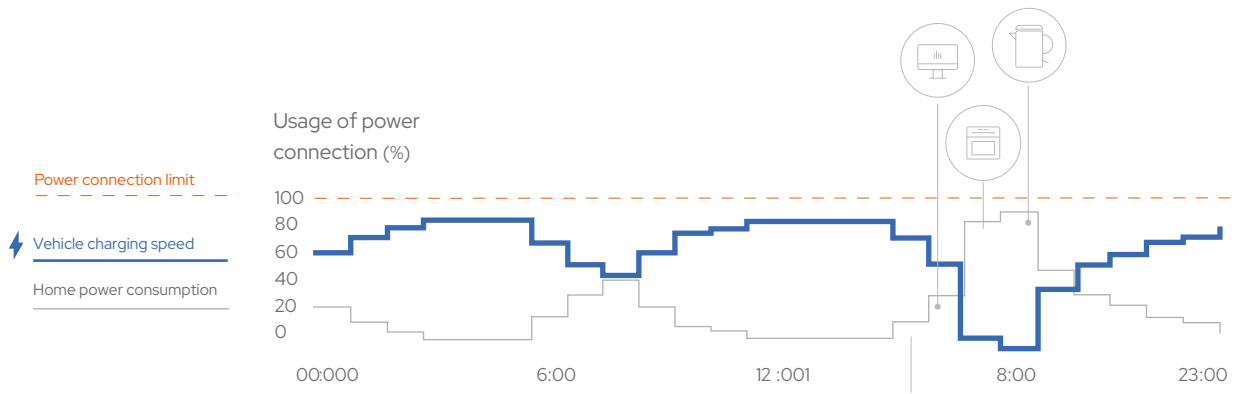
*Dynamic Load Balancing in the chain (DLB)

The whole power for charging stations is divided by each charging station in the chain.

**Option available soon.



ENELION ENERGY GUARD 3.0 application



ENELION ENERGY GUARD 3.0

TECHNICAL SPECIFICATION

Housing	Plastic PC/ABS, mounted on DIN rail
Impact protection	Indoor montage
User interface	LED indicators, web panel
Maximum number of charging stations	30
Rated operating voltage of the device	12 V DC
Rated mains voltage	3 x 230V AC (±10%)
Network frequency	50 Hz
Parameters of measuring point	3 or 1-phase system*
Measurement range	Depending on current transformers
Measurement of energy returned to the grid	Yes
Operating temperature	From -30°C to +55°C
Storage temperature	From -35°C to +55°C
Maximum altitude for installation	2000 m
Connection to charging station	ENELION LUMINA
Dimensions of EEG 3.0	90.5 mm x 55 mm x 62 mm
Dimensions of the power supply unit	98 mm x 26 mm x 53 mm

*Current transformers are available as an option

rev. 2, 29.09.2023