



Smart home system

Energy management and charging of electrical vehicles

2023

EV-GP

Electric Vehicle - Green Power



EV-GP Wallbox 22 kW AC charger

Intelligent and powerful home AC charger for electrical vehicles

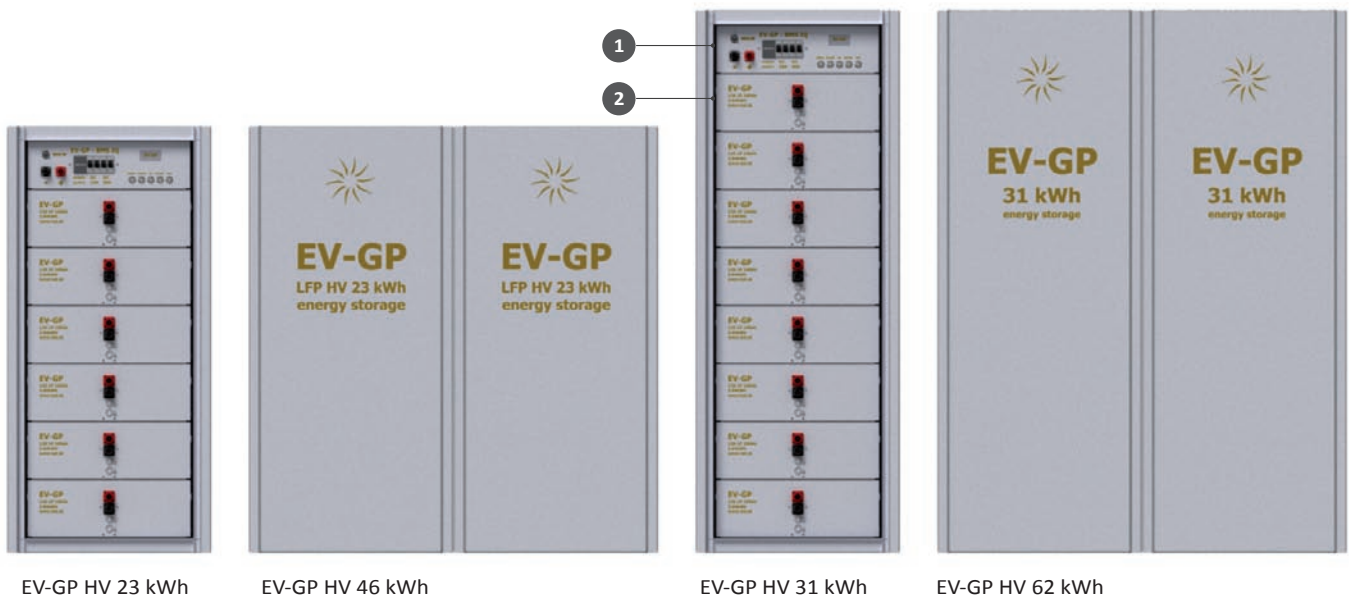
Features

- Compact AC charger for electrical and plug-in hybrid vehicles
- IQ Smart function integrates green energy
- Smart energy management: dynamic load balancing, dynamic load balancing of the total household current load and ensuring electricity safe to prevent household overloading
- Charge time optimization: depending on the availability of electricity and requirements, charging current can be set from 6 A to 32 A in increments of 1 A
- Measurement of actually supplied electricity via a digital wattmeter
- HDO function regulates charging during low rates
- Customisable charging output: 1-phase at maximum 7.4 kW and 3-phase at maximum 22 kW, charging mode 3
- 2.4" OLED display
- TYPE A protection + inbuilt DC 6 mA sensor
- Control buttons: Start, Stop, Up, Down and SMART
- Locking stop button for secure shut down
- 5 m cable with TYPE2 connector included in the package
- Input voltage: 3 x 400 V, 50 Hz, 32 A
- Durable construction suitable for exterior use, IP54
- Standards: CE, EMC, EN/STN 61851-1

EV-GP battery storage

The best LiFePo4 battery storage solution for households

EV-GP HV 23/ 31/ 46/ 62 kWh is a compact battery storage system with advanced LiFePo4 battery technology. Real operating life is over 15 years. Used to store electricity generated by photovoltaic panels or from other energy sources and as a backup supply system in installations. It contains BMS with individual management and balancing of every cell including security. Communication with a converter or higher control system is via RS485 or CAN-bus.



Features

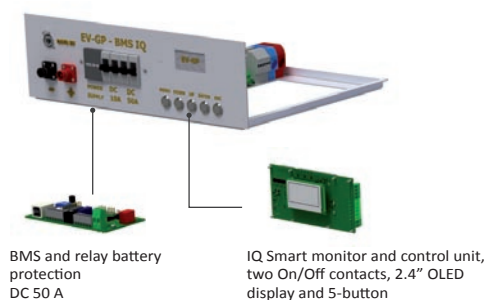
- Battery storage solution with measurement, balancing and a unique cooling system for each individual LiFePo4 battery cell
- Communication standard RS485/ CAN bus as an optional function for extra cost
- Two RS485 outputs to connect EV-GP 22kW IQ charger, heat pump, AC, etc.
- Eight switching outputs On/ Off/ PWM
- Current and battery cycle monitoring in real time
- High output power and a wide range of stored energy use
- Modular concept: optimal battery capacity configuration, can be extended with modules
- Long operating life of over 15 years
- High battery safety enables interior installation
- Simple all-in-one installation

Optional

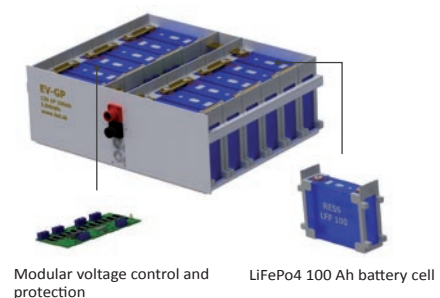
- V2L connection module
- External generator connection
- IP65 cover

Components

1 BMS and IQ module



2 Battery module 3,84 kWh





EV-GP IQ Smart Home System

IQ energy system and home charging for electrical vehicles

The IQ Smart Home System contains a power supply, a three-phase hybrid converter with EPS output up to 20 kW, energy storage, an IQ Smart control unit and an AC charger for electric vehicles.

Smart IQ control unit features:

- **With enough solar energy**, excess energy starts heating warm water or switches on a heat pump, air conditioner, electronic vehicle charger or other device that can make use of the surplus. The control unit has two RS-485 outputs, one CAN bus output and eight switching contacts that allow integration into intelligent control systems in households or small companies.
- **In the absence of solar energy**, the unit automatically changes an electric vehicle with V2L or other external source (LPG, petrol, diesel or hydrogen generator) into a household energy source.

Electrical vehicles can be charged in two ways:

- **IQ charging from surplus**: the control unit continuously manages the output into the charger in the range of 6A to 32 A. If solar energy is insufficient, charging is not stopped, only interrupted. This ensures long-term charging without the need to monitor the charger.
- **Timed charging**: manual adjustment of the charging output as required, from 6 A to 32 A in increments of 1 A. The charger prepares the electric vehicle for driving at the specified time.

EV-GP a.s.

Tulipanova 1
903 01 Senec
Slovakia

tel.: +421 (0)2 4445 7511
email: info@ev-gp.sk
www.ev-gp.sk



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