



OlifeEnergy WallBox is an all-metal heavy-duty charging station for charging of all electrical vehicles with AC and with a total output of up to 22 kW. It is intended for indoor and outdoor use, with an option of being installed on the wall or a profile anchored in the ground (column). Upon customer's wish, WallBox can be equipped with a socket or a cable (Type 2 as well as Type 1), or with a special coiled cable.

Even in its basic version, OlifeEnergy WallBox is equipped with a wide spectrum of functionalities. The charging session can be started automatically, immediately after the vehicle is connected, or based on authorization with an RFID card or a mobile phone. Complete configuration is also done through a Smartphone app. The charger output can be set up within the range from 0 to 22 kW. The charging station can be connected to ripple, integrated into smart household, interconnected with battery storage, and integrated with other control systems. Through the external OlifeEnergy SmartMeter unit it is possible to dynamically control the charging station output to avoid circuit breaker release with high consumption, and charge from excesses of solar power or low tariff.

The WallBox SMART extended version can communicate with a remote server (OlifeEnergy Cloud, OCPP) that provides input power control for several OlifeEnergy stations, remote diagnostics, authorization, and user management. Each WallBox SMART can be included in OlifeEnergy Net, a network of charging stations, and bring its owner an extra income for public EV charging.

## Specification

| Output                           | Type 2   |                    |                |
|----------------------------------|--|--------------------|----------------|
| Type of connection               | Type B (according to EN 61851)   |                    |                |
| Type of output                   | sockets  | cables             | twisted cables |
| Output power*                    | 0-22 kW  |                    |                |
| Input voltage                    | 3 × 400 V (1 × 230 V possible)   |                    |                |
| Input current*                   | 0-32 A   |                    |                |
| Type of AC supply                | AC 3 + N + PE 400V 50 Hz, TN-S   |                    |                |
| Overcurrent protection           | 2x three-pole circuit breaker 32 A (TYPE B)  |                    |                |
| Residual protection              | residual DC current detection pursuant to IEC 62955  |                    |                |
| Max. supply cable cross section  | 10 mm <sup>2</sup>   |                    |                |
| IP class                         | IP54   |                    |                |
| Control                          | Local – automatic, RFID, smartphone app / remote – OlifeEnergy Cloud**, OCPP** Wifi (SOLAR, SMART) |                    |                |
| Communication                    | Bluetooth, Modbus RTU (via RS-485), ADC 0-10 V, OlifeEnergy Cloud**, OCPP 1.6/2.0**                |                    |                |
| Data connection                  | RS-485, Bluetooth   model SOLAR: Ethernet, Wi-Fi   model SMART: Ethernet, Wi-Fi, GSM               |                    |                |
| Operating temperature & humidity | from -25 °C to +40 °C / from 5 % to 95 %   |                    |                |
| Dimensions ***                   | 194 × 320 × 120 mm   | 266 × 320 × 120 mm |                |
| Netto weight (packaging +2 kg)   | 6,5 kg   | 9,5 kg             | 10,0 kg        |

\* maximum adjustable output is limited by upstream circuit breaker \*\* only for SMART version \*\*\* excl. cables, incl. socket cover and cable holder

## OlfeEnergy Cloud Services

A charging station with a functionality extended by an option to be connected to the OlifeEnergy Cloud service and OCPP server. The OlifeEnergy Cloud service provides remote diagnostics, access management, and registration of charging. It also makes it possible to operate a public charging station. Through OlifeEnergy Cloud, it is possible to dynamically control the output of several stations and to communicate with existing MaR systems.

## Wallbox Solar

AC stations in the SOLAR variant give full control over charging. It offers remote control via the home network. When connected to the application, it enables monitoring and management of charging, user authorization together with overviews of the history and energy consumption of each user. The stations are also equipped with communication with inverters from leading manufacturers, thanks to which they efficiently use surplus solar energy and energy from storage batteries for charging.

| Comparison of versions   | WALLBOX    | WALLBOX SOLAR      | WALLBOX SMART      |
|--|------------|--------------------|--------------------|
| Protection against circuit breaker release                             | •          | •                  | •                  |
| Integration with Smart household                                       | •          | •                  | •                  |
| Charging at low tariff, from solar power excesses*                     | •          | •                  | •                  |
| RFID authorization   | 10 ×       | ∞                  | ∞                  |
| Control and configuration through ModBus RTU (via RS 485)              | •          | •                  | •                  |
| Configuration through mobile phone (locally Bluetooth)                 | •          | •                  | •                  |
| Static setup of output current (according to upstream circuit breaker) | •          | •                  | •                  |
| External current control (ModBus RTU / ADC 0-10 V)                     | •          | •                  | •                  |
| List of charging, remote access control, commercial charging           |            | •                  | •                  |
| Charging records   |            | •                  | •                  |
| Wifi   |            | •                  | •                  |
| Remote and mass configuration via web                                  |            |                    | •                  |
| OlifeEnergy Cloud, OCPP  |            |                    | •                  |
| Dynamical control of output according to other consumption*            | 2 stations | unlimited stations | unlimited stations |

\* The output is controlled by an OlifeEnergy SmartMeter external module. We recommend to install 1x SmartMeter at one main circuit breaker.

## Dimensions and schema

