OlifeEnergy Doubleboxes

SECTRON

OlifeEnergy DoubleBox is an all-metal heavy-duty charging station for charging of two electrical vehicles with AC and with a total output of up to 44 kW (22 kW each). 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, DoubleBox 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, the OlifeEnergy DoubleBox 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 44 kW; the setup output is shared by the connected vehicles. 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 DoubleBox 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 DoubleBox 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	2x Type 2		
Type of connection	Type B (according to EN 61851)	Type C (according to EN 61851)	
Type of output	sockets	cables	twisted cables
Output power*	0-44 kW		
Input voltage	3 × 400 V		
Maximum input current*	0-63 A		
Type of AC supply	AC 3 + N + PE 400V 50 Hz, TN-S / AC 3 + PEN 400V 50 Hz, TN-C		
Overcurrent protection	2× three-pole circuit breaker 32 A (TYPE B)		
Residual protection	2× four-pole residual current device, type A + residual DC current detection pursuant to IEC 62955		
Max. supply cable cross section	25 mm^2		
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 **	385 × 550 × 140 mm	529 × 550 × 140 mm	
Netto weight (packaging +2 kg)	18,5 kg	23,5 kg	26,0 kg

* maximum adjustable output is limited by upstream circuit breaker ** without cables, incl. socket cover and cable holder

OlifeEnergy 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.

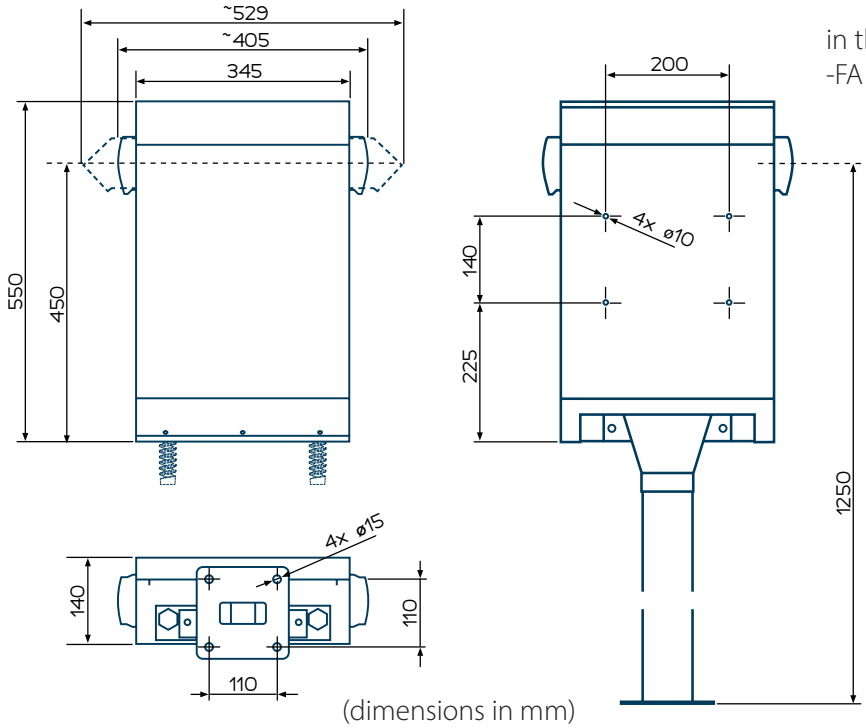
Doublebox Solar

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	DOUBLEBOX	DOUBLEBOX SOLAR	DOUBLEBOX 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

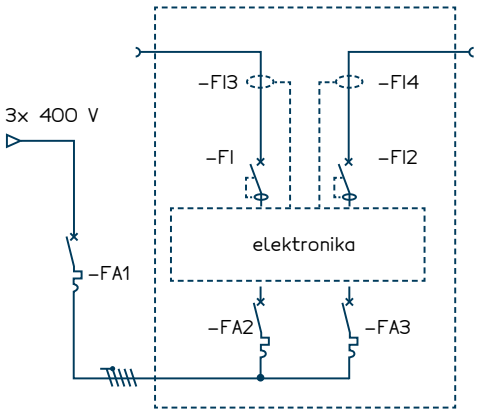
* The output is controlled by an OlifeEnergy SmartMeter external module. We recommend to install 1× SmartMeter at one main circuit breaker.

Dimensions and schema



(dimensions in mm)

in the switchboard
-FA1 3P char. B



inside the charger

-FA2	3P 32 A char. B
-FA3	3P 32 A char. B
-FI	4P 40A type A, 30 mA
-FI2	4P 40A type A, 30 mA
-FI3	DC 6 mA
-FI4	DC 6 mA

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