OlifeEnergy DoubleBox

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 CLOUD 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 CLOUD can be included in OlifeEnergy Net, a network of charging stations, and bring its owner an extra income for public EV charging.

SPECIFICATION

Ordering code	**DB22AC2Z2ZB**	**DB22AC2R2RB**	**DB22AC2K2KB**
CLOUD ordering code	**DB22AC2Z2ZS**	**DB22AC2R2RS**	**DB22AC2K2KS**
Output	2x Type 2		
Type of connection pursuant to EN 61851	Type B	Type C	
Type of output	sockets	cables	coiled cables
Output power*	0–44 kW		
Typ přívodu AC	AC 3 + N + PE 400V 50 Hz, TN-S / AC 3 + PEN 400V 50 Hz, TN-C		
Max. supply cable cross section	25 mm²		
Control	Local – automatic, RfID, smartphone app / remote – OlifeEnergy Cloud**, OCPP**		
Overcurrent protection	2 x three-pole circuit breaker 32 A		
Residual protection	2 x four-pole residual current device, type A + residual DC current detection pursuant to IEC 62955		
Maximum input current*	0–63 A		
Communication	Bluetooth, Modbus RTU (via RS-485), ADC 0-10 V, OlifeEnergy Cloud**, OCPP 1.6/2.0**		
Data connection**	Ethernet**, USB (GSM, Wi-Fi)**, RS-485		
Input voltage	3 × 400 V		
IP class	IP 54		
Operating temperature	-25 °C to +40 °C		
Operating humidity	5 % to 95 %		
Weight (net, packaging +2 kg)	18,5 kg	23,5 kg	26 kg
Dimensions (W x H x L)***	385 × 550 × 140 mm	529 × 550 × 140 mm	

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

OLIFEENERGY DOUBLEBOX CLOUD

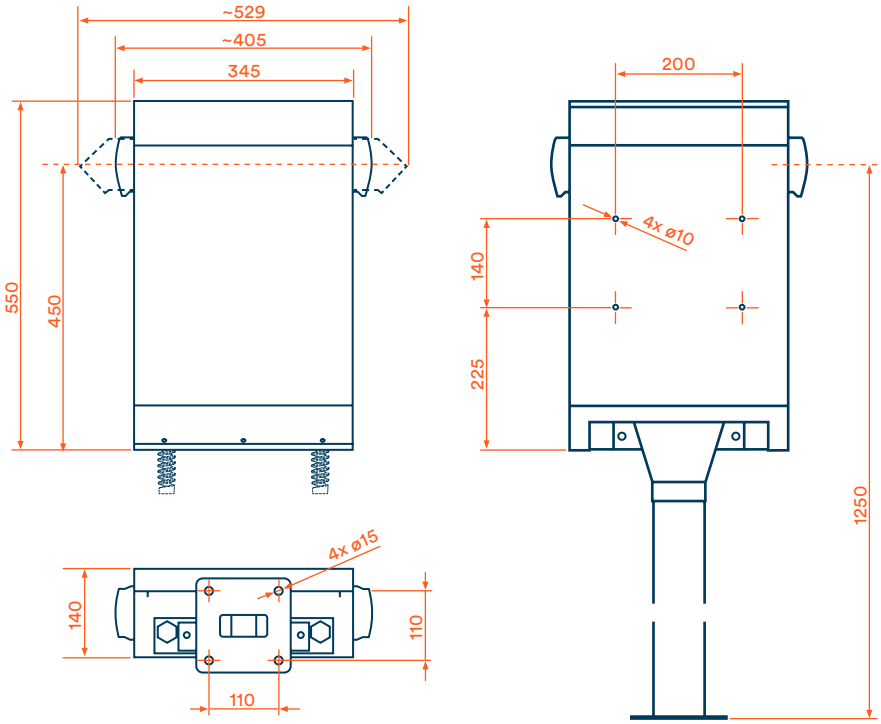
A charging station with a functionality extended by an option to be connected to the OlifeEnergy Cloud service and OCPP server. The OlifeEnergy Cloud service provides remote diagnostics, access management, and registration of charging. It also makes it possible to operate a public charging station. Through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

Comparison of versions

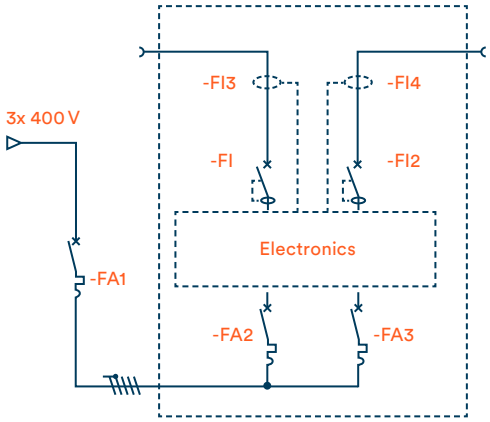
	DOUBLEBOX	DOUBLEBOX CLOUD
Protection against circuit breaker release	●	●
Integration with Smart household	●	●
Charging at low tariff, from solar power excesses*	●	●
RfID authorization	●	●
Control and configuration through ModBus RTU (via RS 485)	●	●
Configuration through mobile phone (locally Bluetooth)	●	●
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		●
Remote and mass configuration via web		●
OlifeEnergy Cloud, OCPP		●
Dynamical control of output according to other consumption*	for 2 x EV	unlimited EVs

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

DIMENSIONS & SCHEMA



(Dimensions in mm)



In the switchboard	Inside the charger
-FA1 3P char. B	-FA2 3P 32 A char. B
	-FA3 3P 32 A char. B
	-FI 4P 40A typ A, 30 mA
	-FI2 4P 40A typ A, 30 mA
	-FI3 DC 6 mA
	-FI4 DC 6 mA

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