photomate

Electric Vehicle Charging Station

OlifeEnergy AC

A design and free-standing charging station for charging of two electrical vehicles in parallel, with AC voltage and total output of up to 44 kW (2 × 22 kW), in a robust all-metal housing.

Even in its basic version, Olife Energy AC 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 HDO, 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 OlifeEnergy AC CLOUD extended version makes it possible to cooperate with a remote server (OlifeEnergy Cloud, OCPP) that provides input power control for several OlifeEnergy stations, remote diagnostics, authorization, and user management. Each AC CLOUD free-standing station 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	**ST22AC2R2RB**
CLOUD ordering code	**ST22AC2R2RS**
Output	2x Type 2
Type of connection	Type C (pursuant to EN 61851)
Type of output	Cables with plugs, Type 2
Output power*	0–44 kW
Type of AC input	AC 3 + N + PE 400V 50 Hz, TN-S / AC 3 + PEN 400V 50 Hz, TN-C
Max. supply cable cross section	25 mm^2
Control	Local – automatic, RfID, via smartphone app (Bluetooth) / 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
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, excl. packaging)	110 kg
Dimensions (W x H x L)	560 × 2000 × 380 mm

* maximum adjustable output is limited by upstream circuit breaker ** only for CLOUD version

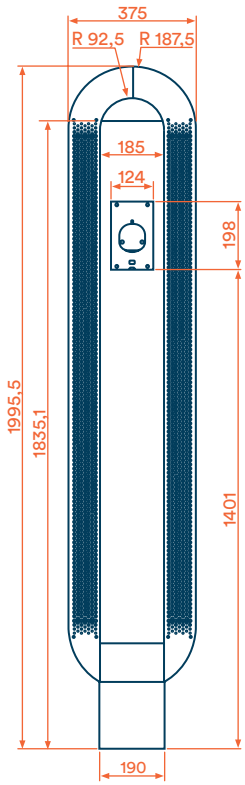
OLIFEENERGY AC CLOUD

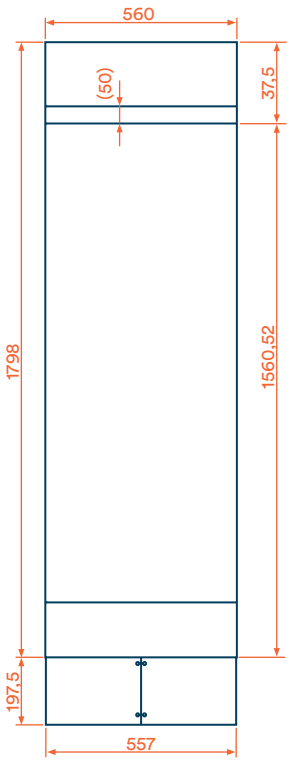
A charging station with a functionality extended by an option to be connected to the OlifeEnergy Cloud service and OCPP server. The OlifeEnergy Cloud service provides remote diagnostics, access management, and registration of charging. It also makes it possible to operate a public charging station. Through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

Comparison of versions	AC	AC 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

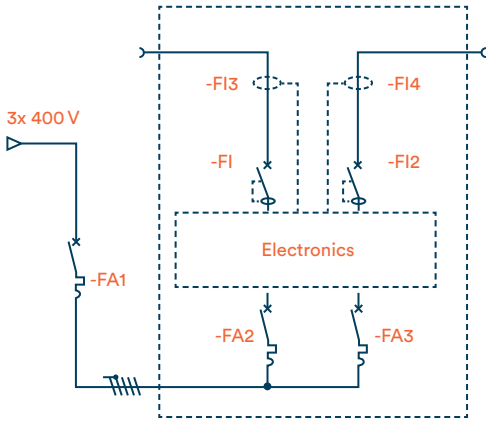
* The output is controlled by an OlifeEnergy SmartMeter external module.
We recommend to install 1 x SmartMeter at one main circuit breaker.

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