

# OlifeEnergy AC electric vehicles charging station

Olife Energy AC - The hard-wearing, free-standing AC charging station for electric vehicles is equipped with two cables with standardized plugs. It is possible to charge two vehicles simultaneously with up to 22 kW power for each E.V. The charging session can be started automatically after connecting to the vehicle, or after authentication with a RFID card. Optional advanced control and monitoring is available through Olife Energy Cloud service via OCPP. The input power can be dynamically controlled from 0 to 44 kW if the available power is limited by a weak grid or building power withdrawal limits.

Model	OlifeEnergy AC
Design	Outdoor IP44 (Free-standing heavy duty stand)
EV connection	Cable with plug (IEC 62196-2)
Charging mode	Mode 3 regarding EN 61851-1
Plugs	AC22MM - twin Type 2 (Mennekes) AC22MY - Type 1 (Yazaki) + Type 2 (Mennekes)
Control	local – automatic or RFID remote – OlifeEnergy Cloud, OCPP
AC Input	AC 3 + N + PE 400V 50 Hz, TN-S AC 3 + PEN 400V 50 Hz, TN-C
Input voltage	400 V AC (50 Hz)
Input current	0–63 A
Surge protection	2x 4pole breaker 32 A
Surge protection	2x residual-current circuit breaker 40 A
Communication	OlifeEnergy Cloud, OCPP-J, 1.6, 2.0
Data connection	Ethernet, USB (GSM, Wi-Fi)
Operating temperature	-30 °C to 50 °C
Operating humidity	5 % to 95 %
Dimensions	2000 × 560 × 380 mm
Weight	110 kg



# EXTENSION MODULES

Hardware modules which extend functionality of the Olife Energy AC charging station.

## RFID modul (included)

RFID reader allows user authorization through common keycards or chips (entrance cards, clients cards, etc.) Specific RFID cards can be stored in the memory of the charger and added on demand, an optional remote configuration through SmartCharge module is also available.

## SmartCharge module (HW included)

The Smart computing unit which allows the charger to communicate with OlifeEnergy Cloud or other OCCP server. The SmartCharge module provides remote communication (LAN, GSM), charging station diagnostics and monitoring, smartphone app control and also advanced control of maximum input power.

## GSM module (HW included)

If either net or wifi connection is unavailable, the charger can connect to the Internet via cellular data network (GSM).

# OLIFEENERGY CLOUD

A Platform for remote monitoring, management and clients charging. The Platform offers multiple services which can be combined.

## Remote monitoring

Basic service for remote communication with the charging station. The user is informed about status and energy consumption including history data. With the Remote monitoring service, the charging station is presented in OlifeEnergy Net charging network for free.

## Access control

This service allows management of RfidUser chips and smartphone application user management. A List of all individual charging sessions (user, time and consumed energy) data is available for the charging station owner with this service.

## Power control

A Load-Balancing service for advanced control of the charging station. If there is not enough power to charge the E.V., or E.V. fleet, consumption of the charging station(s) can be controlled based on specific maximum withdraw limit (weak grid) or dynamically (based on maximum consumption of the building in a certain time frame).

## Payment system

This service allows the OlifeEnergy AC charging station owner to define the fee for station operation. The Charging station is advertised in OlifeEnergy Net charging network.

