DC stations 40-160 kW

Fast charging station for electric vehicles with an output of 40 to 400 kW (40–160 kW or 200–400 kW) in a stand-alone design. The power electronics are located directly in the rack. OlifeEnergy DC can be equipped with one or two fast charging (DC) „dual" cables with CCS connectors and a maximum of one optional AC outlet (Type 2).

In „dual" operating mode, the station can fast charge two electric vehicles simultaneously. The optional AC charging works separately. In a full configuration, up to 3 vehicles can be charged at the same time. The station in all versions communicates via OCPP protocol, is equipped with RFID card reader and LED status indication. The station is fully compatible with OlifeEnergy Cloud for remote monitoring, control, station management and power control.

OlifeEnergy Cloud

A charging station with functionality enhanced by the ability to connect to the OlifeEnergy Cloud and OCPP server. OlifeEnergy Cloud provides remote diagnostics, access management and charging records. It also enables the operation of a public charging station. Through OlifeEnergy Cloud, the performance of multiple stations can be dynamically managed and interact with existing BMS systems.

Dual mode

An optional extra is a function for fast charging two electric cars at the same time. A second fast charging output (CCS2 connector) is added to the station. In the event that a single vehicle is connected on either of the charging cables, it is charged at full power. When a second vehicle is connected, the power of the station is divided in half between the connected vehicles. After one of the cars has finished charging, full charging power is again available for the other car.

Specifications

Model	40 kW	80 kW	120 kW	160 kW
Version	outdoor IP54, IK10, stand-alone stand, corrosion protection			
Operating mode	single / dual			
Charging mode (DC)	Mode 4, method C (IEC 61851-1)			
Charging mode (AC, optional)	Mode 3, B/C mode (IEC 61851-1)			
DC output	CCS2 (ISO 15118, DIN 70121)			
AC output (optional)	Type 2 socket / 5 m cable with plug			
Energy meter	optional MID for each output			
Control	local – auto, display (10", color, touch) RFID / remote – OlifeEnergy Cloud, OCPP			
Communication	Modbus TCP, OlifeEnergy Cloud, OCPP 1.6/2.0			
Data connection	Ethernet, USB (GSM, Wi-Fi)			
Noise emission	< 65 dBA			
Efficiency	> 96 %			
Operating temperature	-25 °C do +40 °C			
Operating humidity	5 % do 95 %			
Dimensions	2049 × 695 × 400 mm			
Weight	200 kg	250 kg	300 kg	350 kg
Length of charging cable	5 m			

INPUT (AC)				
Input type AC	AC 3 + N + PE 400 V 50 Hz, TN-S / AC 3 + PEN 400 V 50 Hz, TN-C			
Max. supply cable cross section	35-120 mm^2		95-185 mm^2	
Max. input current (without AC module)	68 A	131 A	194 A	257 A
Max. input current (AC module)	32 A			
Surge protection	T1+T2 (IEC 60364-7-722)			
THDi	≤6 %			

OUTPUT				
Output voltage	150–1000 V DC			
Max. output current	125 A DC	250 A DC	375 A DC	500 A DC
Max. power (without AC module)	40 kW	80 kW	120 kW	160 kW
Max. output current/power (AC module)	32 A DC / 22 kW			

Dimensions & schema

F1–Fn   circuit breaker
SPD   surge protection device
K1–Kn   contactor
FI   residual currant detetor