

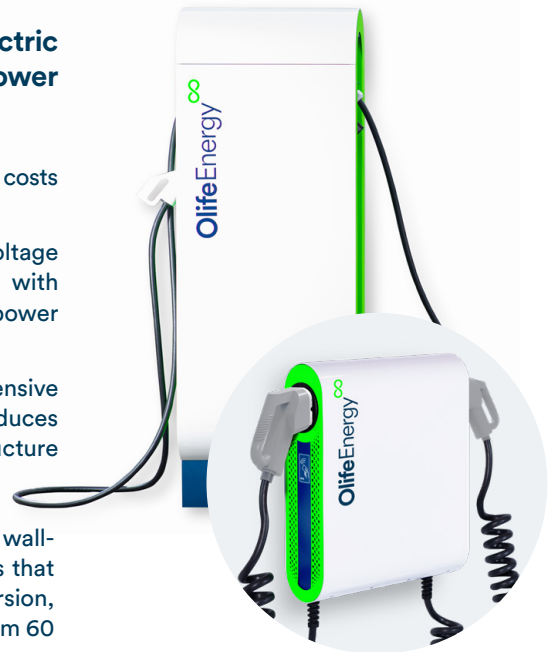
Charging Station

OlifeEnergy DC-DC

The OlifeEnergy DC-DC is a unique charging solution for electric vehicles, specifically designed to be compatible with a DC power source and offering numerous advantages:

- improves charging efficiency by eliminating the need for the DC to AC and AC to DC conversion process, which is typically required for traditional DC fast chargers,
- enables the use of renewable power source (photovoltaic or wind plants) without relying on grid connections. This is particularly advantageous in situations where a dependable power grid is not available or where grid connection costs are excessively high,
- allows the use of high-voltage lithium batteries, either along with photovoltaic or as a substitute power source.
- eliminates the need for expensive DC-AC inverters, which reduces the cost of EV charging infrastructure significantly.

The OlifeEnergy DC-DC system is offered in two setups: a floor-based and a wall-mounted configuration. The system is available in a range of capacity options that can be customised to meet individual requirements. For the wall mounted version, we offer product in variant 30 kW and 60 kW. Free stand version is scalable from 60 to 400 kW.



SPECIFICATION

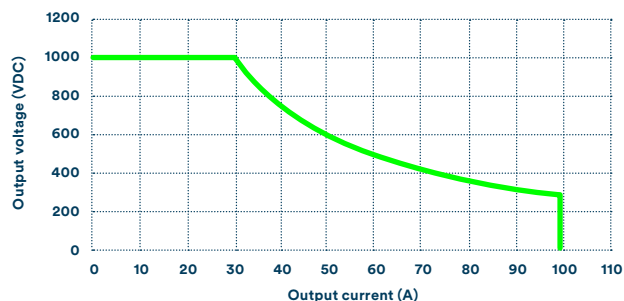
Model	30 kW–400 kW
Form	outside IP54, IK10 30 kW and 60 kW wall mounted / 60–400 kW floor stand
Connection to EV	cable with plug (IEC 62196-3)
Charging mode	Mode 4, Case C (IEC 61851-1)
DC output	CCS2
Control	local – automatic charging, RFID / remote – OlifeEnergy Cloud (RFID, smartphone app.) / OCPP 1.6 (2.0.1)
Ambient temperature	-25 °C ~ +40 °C
Humidity	< 95 % RH, non-condensing
Altitude	2000 m
Input voltage range	300 Vdc~825 Vdc
Max. input current	50 A
Efficiency	> 95 %, @350~500 V / 680~1000 Vdc / 60 % ~ 100 % Load current, Max point > 95.5 %
MPPT function support	Solar max power point track function for maximize the solar energy input
Output power	30 kW @ voltage > 300 Vdc
Voltage range	150 Vdc~1000 Vdc
Current range	0~100 A
Current sharing	< ±1 A
Voltage stabilized accuracy	< ±0.5 %
Current stabilized accuracy	< ±1 % @I _o > 30 A, ±0.3 A @I _o < 30 A

OLIFEENERGY CLOUD

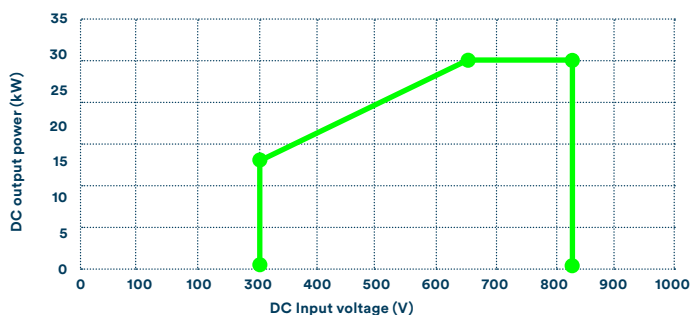
A charging station with a functionality extended by an option to be connected to the OlifeEnergy Cloud service and OCPP server. The OlifeEnergy Cloud service provides remote diagnostics, access management, and registration of charging. It also makes it possible to operate a public charging station. Through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



OUTPUT VOLTAGE VS OUTPUT CURRENT CURVE



INPUT VOLTAGE VS OUTPUT POWER CURVE



AMBIENT TEMPERATURE VS OUTPUT POWER CURVE

