

Alfen DC Charger 30 kW

Technical Specifications



Product Variants

Product variant	Article no.
Alfen DC Charger 30 kW	904330001

General Specifications

DC Charging Socket	1x CCS2, in accordance with IEC62196-3
Install location	Indoor & Outdoor
Authentication methods	RFID charge card / Back office/ Alfen Plug & Charge
Metering	AC metering, MID (class B), charger consumption Included
Main Switch for service included	1 feeder cable

Norms and Standards

EVSE standards	IEC 61851-1, IEC 61851-21-2, IEC 61851-2, IEC 61851-24
Protocols for EV & EVSE communication	ISO 15118 ready, DIN SPEC 70121, EN 61851-24

Electrical Characteristics

Power Input

Input voltage	3P+ N (400 V/230 V +/- 10%), 50 Hz +/- 10%, TN-C, TN-S, TN-C-S, TT
Input current	$\leq 3 \times 50$ A RMS (50 A RMS per phase)
Power Factor	Rated output Load ≥ 0.99
Current THD	$< 5\%$ @full load
Efficiency	$> 95\%$

Power output

Output power and voltage	30 kW, 200 - 910 V DC
Output current	≤ 80 A DC (certified), (≤ 91 A DC tested during certification)

Standby

Consumption	≤ 40 W
-------------	-------------

Alfen DC Charger 30 kW

Technical Specifications



Safety (internal)

Protection	Overload, Under- & over-voltage, Surge protection Type 1+ Type 2/ Class I + Class II, Over temperature, DC Insulation monitoring
Main Switch (inside Wall or Pole mount)	4P, 63A, 400V
Impact resistance	IK10
Protection rating	IP55
Over voltage category	Category III
Protection Class	Class I (protective earth connection)

Safety (external)

Alfen recommends an MCB type B with short circuit prospective value of 10 kA RMS upstream

Residual current protection	Upstream Residual Current Protection with RCD 6 mA (DC) and 30 mA (AC), coordinated with the selected overcurrent protection device
-----------------------------	---

Environmental characteristics

Operating temperature *	-25°C — +50°C (derating applied over +50°C ambient after 2 hours)
Storage temperature	-40°C — +85°C (IEC 60721-3-1:2018)
Transportation temperature	-40°C — +85°C
Cooling	Forced air
Humidity during operation	5% — 95% relative humidity, non-condensing
Noise levels at full power	<60 dBA in all directions
Altitude	≤2000 m

* The operating temperature is stated under the following condition: outside direct sunlight

EMC Class

Emissions	Class B
Immunity	Class A

Housing

Type	Wall-mounted and pole-mounted charging station
Housing	830 x 430 x 280 mm (without pole)
Packaging	894 x 634 x 390 mm
Weight	Approx. 65 kg (without cable, without pole)

Alfen DC Charger 30 kW

Technical Specifications



User Interface

Display type LCD, IPS

Communication Interfaces

Network connection and LAN Ethernet LAN 10 & 100MBit/s with RJ-45. Daisy chaining via external switch

External energy meter connection Ethernet TCP/IP

Cellular Modem 2G GPRS, 4G LTE Cat M1

Backend support

OCPP stack • OCPP 1.6J

Firmware updates • (Locally) over Ethernet
• Over-the-air

Charging cable

Cable length 5 m

CCS2 connector Yes

Mounting accessories

DC Wall kit 905023101

DC Pole kit 905023201

Standard and Selectable Settings

Network communication options *

- 2G: GPRS
- 4G: LTE-M
- UTP/LAN
- Autodetect

 Configurable, to be decided by customer

The settings marked with a * may result in additional costs when purchasing your charging station. The default settings are always mentioned first. For more information about the options, please contact your sales representative.