

# 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 61851-23, IEC 61851-24
Protocols for EV & EVSE communication	ISO 15118-2 ready, DIN SPEC 70121

### Electrical Characteristics

#### Power Input

Input voltage	3P+ N (400 V/230 V +/- 10 %), 50 Hz +/- 5 %, TN-C, TN-S, TN-C-S, TT
Input current	≤ 3x50 A RMS (Nominal)
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
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### Safety (internal)

Protection	Overload, Under- & over-voltage, Surge protection Type 1+ Type 2/ Class I + Class II, Over temperature, DC Insulation monitoring
Main Switch (AC - located inside wall bracket or inside pole)	4P, 63 A, 400 V
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	Alfen recommends upstream residual current protection with RCD 6 mA (DC) and 30 mA (AC), coordinated with the selected overcurrent protection device
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### Environmental characteristics

Operating temperature *	-25 °C — +50 °C (derating applied over +50 °C ambient after 2 hours)
Storage temperature	-40 °C — +85 °C
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, measured at 1 m distance
Maximum altitude	Certified up to 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)

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### User Interface

Display type	7" IPS color display
Resolution	1024 x 600 pixels
Brightness	1000 Nits
Contract ratio	800:1

### 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	<ul style="list-style-type: none"> <li>OCPP 1.6J</li> </ul>
Firmware updates	<ul style="list-style-type: none"> <li>(Locally) over Ethernet</li> <li>Over-the-air</li> </ul>

### Authentication methods

Authentication methods	<ul style="list-style-type: none"> <li>Plug &amp; Charge</li> <li>RFID charge card</li> <li>Autocharge</li> <li>ISO 15118 Plug &amp; Charge</li> <li>Back office</li> <li>Third-party apps</li> </ul>
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### Charging cable

Cable length	5 m
CCS2 connector	Yes
Cable holder	Included - provided with charger
Connector holder	Yes, mounted on charging station housing.
Cable management system	Yes, included in Wall kit and Pole kit

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### Mounting accessories

DC Wall kit

905023101

Includes:

- 4 pole AC main switch
- Charge cable management system

DC Pole kit

905023201

Includes:

- 4 pole AC main switch
- Charge cable management system

### 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.