

Alfen Smart Charging Network (SCN)

Local Charging Management

PRODUCT INFORMATION:

- Local charging management for the combination of Alfen charging stations
- Distribution of the available charging capacity
- For 2 to a maximum of 100 charging points
- Can be combined with OCPP backend (freely selectable)
- Modular integration of new charging points
- Charging management takes into account vehicles that do not meet the required behaviour of IEC 61851 (minimum charging current > 6 A)
- Local configuration or alternatively via remote access (ACE Service Installer or backend)



TECHNICAL DETAILS:

General data

Number of charging points	Up to 100
Charging management	Equal distribution of the available charging power to connected vehicles; Release of the charging power of charging points at which vehicles are fully charged; Test of the minimum charging current of the vehicle (possibly 14 A, which does not comply with IEC 61851); Alternate charging of vehicles, when the maximum power is exhausted (pausing of charging processes)
Unbalanced load	No limitation of the unbalanced load for 1- and 2-phase charging electric vehicles if they physically load the identical phases of the grid connection; Phase rotation is provided between the individual charging points, but no limitation to a maximum asymmetry of 20 A between the phases
Backend connection	Charging management can be combined with OCPP backend (freely selectable)
Hardware	Function integrated in Alfen charging stations (see compatible charging stations); Switch required; Activation using licence

Interfaces and connection

Communication	LAN (connection of the charging stations via switch); Connection of the individual charging stations via star (no looping through of the communication line); IP address assignment via DHCP server or AutoIP; OCPP 1.6
Energy management	Static load management, dynamic charging management optionally with Modbus meter (Socomec E27 for direct measurement up to 80 A or alternatively B-Control EM300)

Compatible charging stations

AC	Alfen Eve Single Pro-line, Alfen Eve Double Pro-line
DC	-

Configuration SCN

a)	Max. available current of a charging group
b)	Max. charging current per charging point
c)	Min. desired charging current
d)	Stopping time of a charging point in the event of a capacity shortage

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