Compleo load managment Overview (as of 1 August 2023)



Efficient and resource-saving installation of charging infrastructure - essential for market ramp-up





Total costs always in view



Remain flexible, also in the future

Over 25% of new registrations are plug-in vehicles

Registration figures for EVs are reaching new heights every year. The EU's plans and the emission targets for car manufacturers clearly point the way to electrification.

This creates planning security. Charging solutions are not an isolated occurrence, but the new trend in the vehicle sector.

Costs can be saved especially during installation

A large part of the project costs are incurred by the grid connection and the installation of the charging points.

Innovative solutions such as load management can save up to 50% of the installation costs.

Customise configurations as required

Locations with charging points often develop phase by phase. Therefore, it's important to have products that are future-proof.

It's especially important for load management to have flexible priorities.





Load management

More vehicles, more charging points, more grid connection power? With Compleo load management, more vehicles can be charged on the same grid connection without overloading it.



What is load management?

Purpose and definition



For the installer

We save up to 50% on installation costs with Compleo load management and can therefore be competitive in projects, tenders and bids.

For the operator

We want to realise as many charging points as possible with the existing grid connection and thus minimise the running costs.

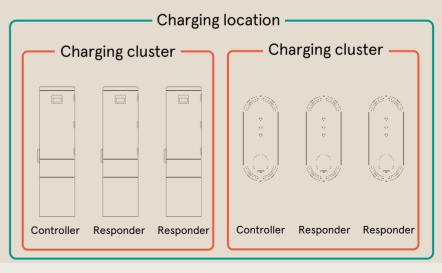
For the user

I want to make sure that my vehicle is fully charged by the end of the workday.

What is load management?

With load management charging processes can be organised so that the existing mains connection can be used and does not need to be upgraded.

Terminology





Load management | eBOX

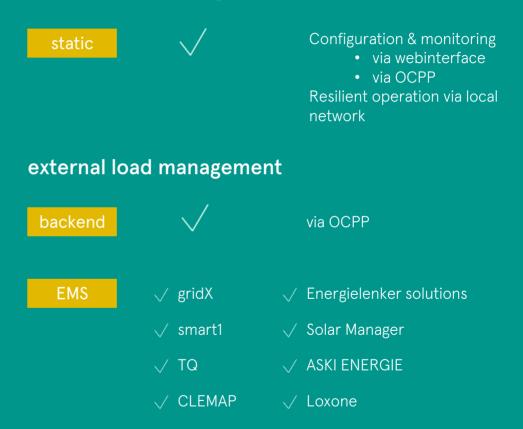
Controllable in many ways via energy management systems



potential-free contact

Charging power	Up to 22 kW
Connectivity	WLAN, LAN, LTE
Communication	OCPP 1.6J
Energy-/ Load management	Modbus TCP/IP OCPP smart charging FNN-standard control box interface

onboard load management





Load management | DUO

Can be interconnected as a group without recurring costs and can be expanded via energy management systems



Charging power	Up to 22 kW
Connectivity	LAN, LTE
Communication	OCPP 1.6J
Energy-/ Load management	Modbus TCP/IP OCPP smart charging

onboard load management



external load management





Load management | CITO

Can be interconnected as a group without recurring costs and can be expanded via energy management systems



Charging power	AC: 22 kW; DC: 50 kW
Connectivity	LAN, LTE
Communication	OCPP 1.6J
Energy-/ Load management	Modbus TCP/IP OCPP smart charging

onboard load management



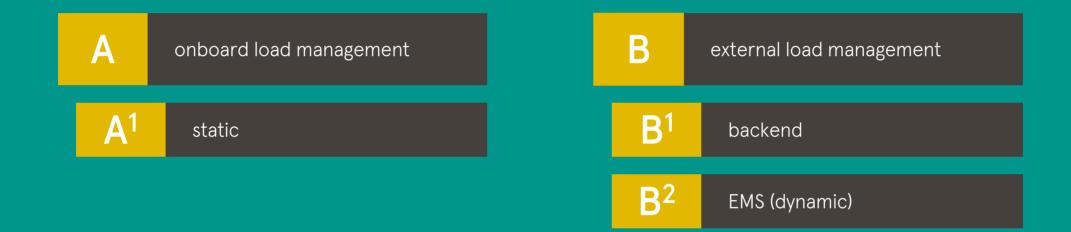
Configuration in factory or as field service

external load management





Different types of Compleo load management can be selected depending on location and use





A - Onboard load management

A1 – static | optimisation within charging cluster with fixed upper power limit | eBOX (as of October 2023)



Power line



A - Onboard load management

A1 – static | optimisation within charging cluster with fixed upper power limit | DUO / CITO 500

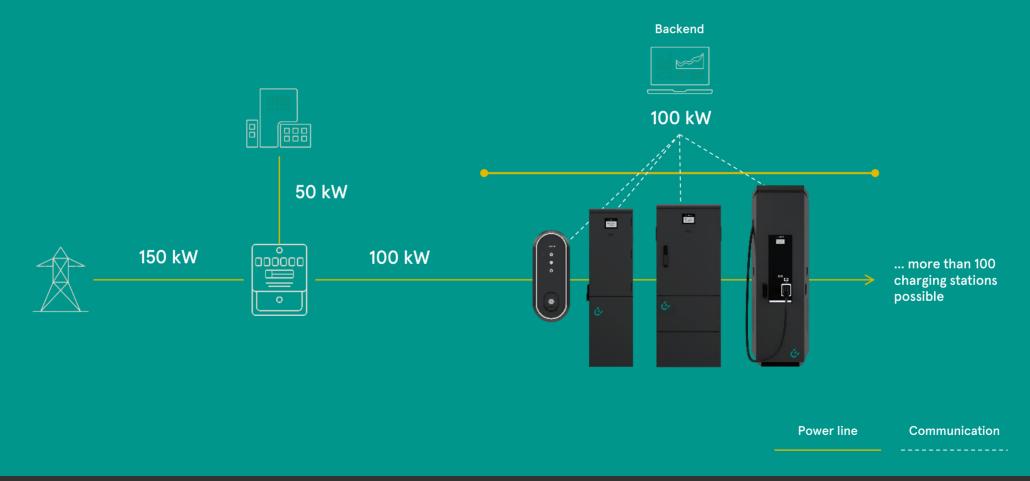


Power line



B - External load management

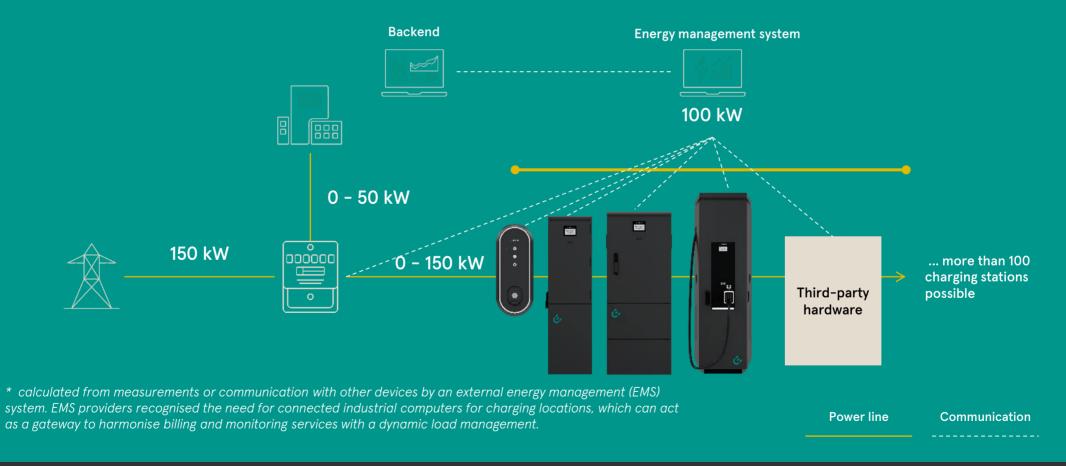
B1 – backend | optimisation within charging cluster with static power limit





B – External load management

B2 – EMS I optimisation within charging cluster using a dynamic power limit *





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The power to move

