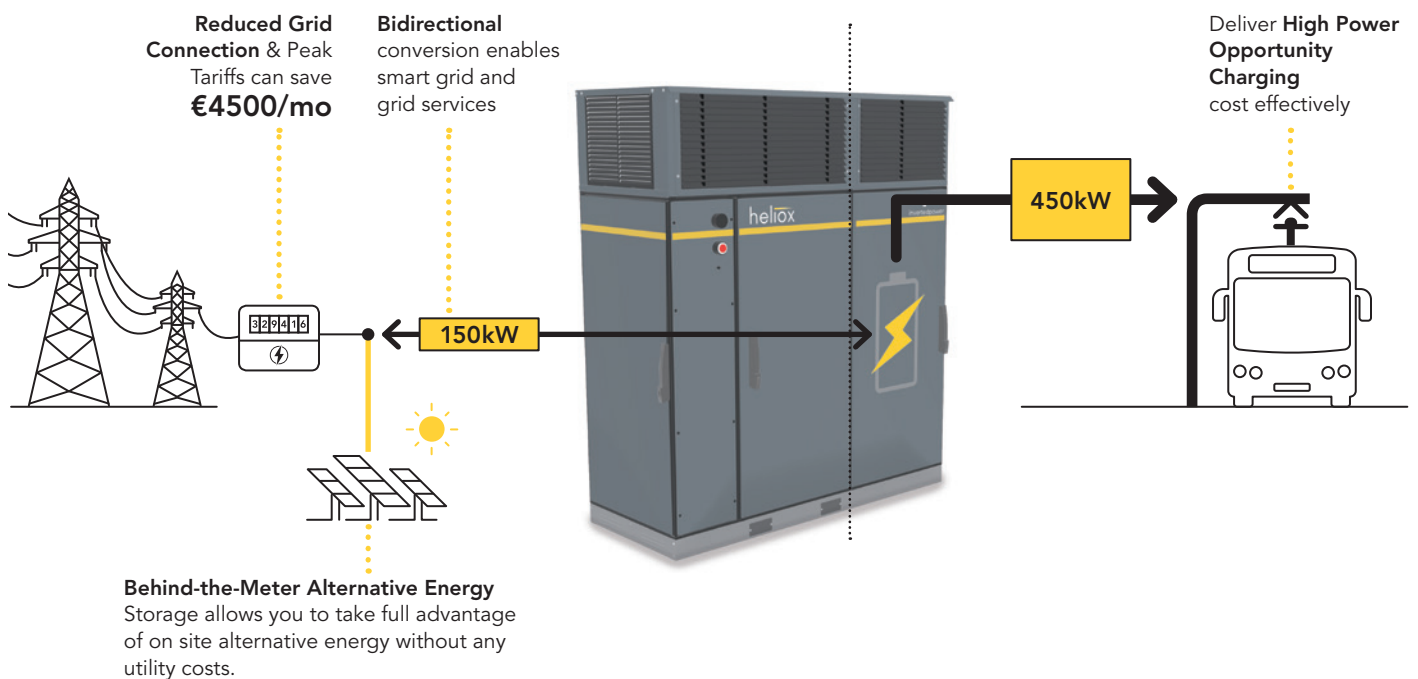


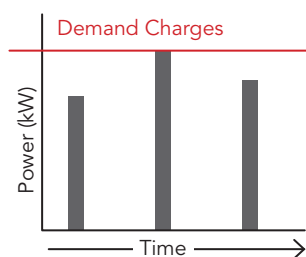
SprintCharge 450kW Battery Buffered Opportunity Charging

The SprintCharge Advantage

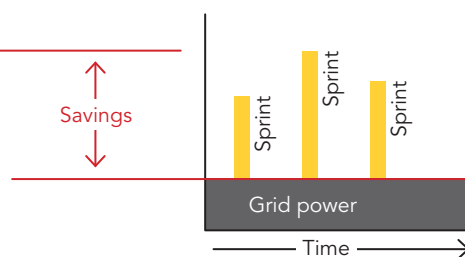
Limited available grid capacity and high peak power tariffs can make opportunity charging difficult. SprintCharge takes a constant, low power from the grid then stores the energy in a battery. Using the battery it can deliver a fast, efficient opportunity charging in smaller locations, with less grid capacity and at lower cost than traditional chargers.



Traditional Opportunity Charger

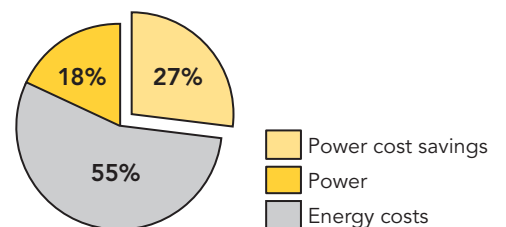


SprintCharge



Electricity Cost

Smaller Grid Connections save power costs & enable more choices for charging locations and faster installation.



Heliox DC-Coupled battery can **save €500/mo** in energy costs, and **1/3 less space** compared to AC-Coupled battery buffers

Location **flexibility** with smaller grid connection requirements

Preliminary Specifications

Product in development, subject to change without notice

Why Heliox SprintCharge?

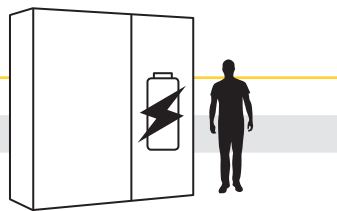
- Battery storage reduces grid connection costs with smaller grid connection
- More flexible route planning
- Enable behind the meter energy savings from on site energy generation like e.g. solar
- High Current output allows fast charging even with lower battery voltages
- Low Standby Power
- Enable Grid services and Virtual Power Plant

Heliox SprintCharge Key Features

- Integrated battery enables fast 450kW opportunity charging Sprints with only a 150kW grid connection
- Efficient DC-Coupled architecture reduces size and cost compared to AC Coupled
- Bidirectional converter enables smart grid, grid services and V2G
- Charge any CCS or pantograph compatible vehicle with up to 450kW from a <167kVA grid

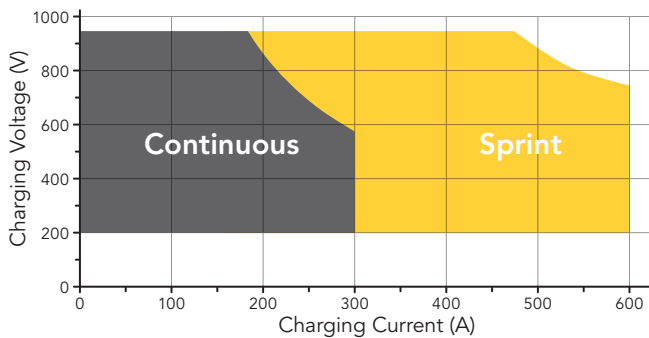
Charger Dimensions

H: 2200 mm
W: 2400 mm*
D: 800 mm



* Width dependent on number of battery modules

Power Curve



General

Charging standard

Charger

IEC61851-1/23/24 /
DIN 70121 / ISO15118
SAE J1772 / SAE J3105

Charging Output Power

450kW Sprint
150kW Continuous

Charging Output Current

600 A, bidirectional

Input power rating; full/idle

167 kVA / 75 VA

Power conversion efficiency

> 96% (direct AC/DC)

Network connection

GPRS / 3G / OCPP / OSCP

Protection

IP54 / IK10

AC Connection

EU 400V / US 480V / MV

Battery Capacity

100kWh std. configuration
scaleable battery modules.

Cycle Times

Up to 20 min. of full Power
Sprint Charging per 100kWh.
with 40 min recovery standby
time.



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