

Ultra-Fast 450 kW

Future-proof. Scalable. Powerful.

Never have to make a schedule change again with a charger that can optimally charge a bus in just 2-5 minutes.

The Heliox Ultra-Fast 450 kW, the ultimate solution in opportunity charging.



Heliox Power Curve Technology results in ultrashort charge sessions of 2-5 minutes.



V2G and smart charging ready.



The 6 power cabinets can be arranged in two different layouts for optimal site configuration.

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Europe



Increase Passengers, Reduce Costs: Ultra-Fast charging speed along a bus route allows your electric buses to run all day, meaning you can achieve not just a significant increase in passenger capacity but a significant cost reduction as well.



Simple & Scalable: Implementation is straightforward and fully scalable. The charger can be introduced route by route as you need it, plus, it comes ready for V2G and smart charging functionality, making the Ultra-Fast 450 kW future-proof.

**96%
Efficiency**

Interfaces



General

Charging standard	IEC61851-1/23/24
Communication standard	DIN70121 / ISO15118-1/2/3 ed1 (incl. V2ICP/VDV261 support)
Compliance and safety	CE / EN 55011 / IEC61000-6-2
Power factor above 50 % rated	> 0.99
Average THD V, THD I	2%, 5%
Peak efficiency	96%
Dielectric withstand	3000 V
Network cellular	4G modem, LAN
Back office	OCPP 1.6J/2.0, Chargesight
Temperature range	-30 to 50 °C
Operational noise level	< 55 dB(A) @ 2 m
System weight	4000 kg
Protection	IP54 / IK10
Environment operating	ISO 12944: C4 H
Formation	Line / Block
Roof Design	Gabled / Shed

Input

Input connections	3P + PE or 3P + PE + N
Input power rating; full load / idle	485 kVA / 500 VA
Input line-line voltage range	400 V AC +/- 10 %, 50 Hz (MV integration optional)
Input maximum AC current per phase	800 A, inrush current limited

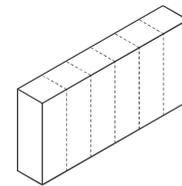
Output

Output DC voltage range	460 - 800 V
Rated DC output power	450 kW
Maximum DC output current	900 A, bidirectional ready

Dimensions

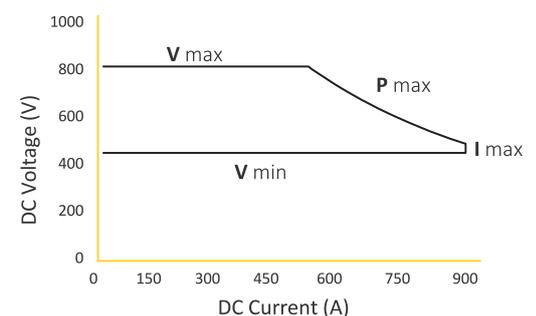
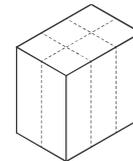
Line:

H: 2300
W: 4800
D: 800
(mm)



Block:

H: 2400
W: 2400
D: 1600
(mm)



heliox

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