



Line positioning shown

Opportunity Charger 450 KW

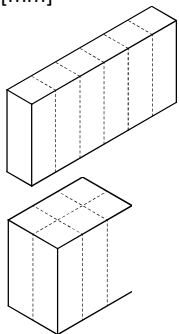


Opportunity Charging is Ultra Fast charging at the turn-around location of the bus route. Without the need of schedule change, electric buses can run all day and a significant passenger capacity increase and cost reduction can be achieved.

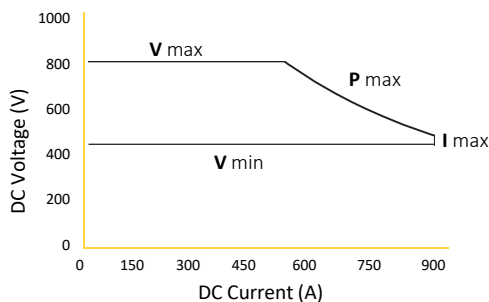
Heliox Power Curve Technology results in ultrashort charge sessions, that reduce the impact on the timetable to a minimum: within 2-5 minutes of opportunity charging at the end bus stops, you can optimize your electric bus operation. Implementation is simple and straightforward; the solution is fully scalable and can be introduced route by route. This charger has the elements required for V2G and smart grid functionality.

Dimensions

Line	Block
H: 2300	H: 2400
W: 4800	W: 2400
D: 800	D: 1600
[mm]	



Power Curve



Specifications

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

Charger

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
Power factor above 50 % rated	> 0.99
Average THD V, THD I	2%, 5%
Peak efficiency	96%
Dielectric withstand	3000 V
Network cellular back office	4G modem, LAN 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, optional C5 H

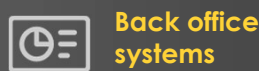
Specifications subject to change without notice



**96%
Efficiency**



**Highest
up time**



**Back office
systems**



**Zero
Emissions**



**Support
services**



**Industry's
quietest**

Heliox Automotive B.V.
De Waal 24, 5684 PH Best,
The Netherlands

+31 88 5016 300
info@heliox.nl
www.heliox.nl