

Ultra Fast 450 kW

Versatility. Flexibility. Scalability.

Keep your fleet running on schedule with an EV charger that can recharge a bus in just 5-10 minutes. The Heliox Ultra Fast 450 kW: the ultimate solution in opportunity charging.



Manufactured and tested in the United States ensuring Buy America Act compliance.



Adds ~5 miles/minute (depending on vehicle type) for ultrashort opportunity charging sessions.



Six power cabinets that can be arranged in two different layouts enable simple site design for easy expansion.

All product designs and specifications are subject to change without notice

heliox



Ultra Fast 450 kW

with 600 A cross-rail inverted pantograph



Quickly add range to any compatible EV for reliable opportunity charging (J3105).



Compact architecture of DC cabinets enables flexible installation options (i.e., inside mast, on gantry, along wall).



External color-changing beacon ensures optimal visibility of every dispenser's status.

General

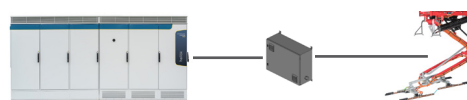
Charging standard:	SAE J3105-1 cross-rail connection
Communication standard:	SAE J3105-1
Compliance and safety:	UL 2202 / UL 2231
ACD actuation (Lowering and reaction each)	5 seconds
Distance DC outlet to ACD	Up to 33 ft.
EV to EVSE initialization	SAE J3105-1
Human machine interactions	Optional charger status indication
Peak efficiency:	96%
Power factor above 50% rated:	>0.99
Network cellular:	4G modem
Back office:	OCPP 1.6J, OCPP 2.0.1 ready
Temperature range:	-22 to 122 °F
Operational noise level:	< 55 dB(A) @ 80"
System weight:	Ultra Fast 450: 8800 lbs. DC cabinet: 220 lbs. 600 A IP: 430 lbs.
Dimensions:	Ultra Fast 450: (see diagram) DC cabinet: H: 24", W: 32", D: 12" 600 A IP: H: 23", W: 32", D: 86"
Protection	NEMA 3R / IK10 (excluding ACD)
Environment operating:	ISO 12944: C4 H

Input/Output

Input connections, Frequency	480 V / 60 Hz (3P + GND)
Full load / idle input power	485 kVA / 500 VA
Input line-line voltage range:	480 V AC +6/-13%
Input max. AC phase current:	700 A, no inrush
Output DC voltage range:	460 - 800 V
Rated DC output power:	450 kW
Maximum DC output current:	900 A (limited to 600A by ACD)
Continuous DC output current:	600 A



Setup configuration

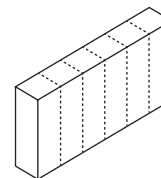


Displayed config.: Ultra Fast 450 kW >> DC Cabinet >> 600 A Inverted Pantograph

Station dimensions

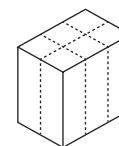
Line:

H: 91 in.
W: 189 in.
D: 32 in.



Block:

H: 95 in.
W: 95 in.
D: 63 in.



Status indication



READY



CHARGING



ERROR

Power curve

