

# Flex 180 kW

**Versatility. Flexibility. Scalability.**

Our most versatile solution, Flex is ideal for charging overnight or opportunity, dynamic or static, one EV or up to three. It's the most flexible fast charging solution available anywhere. With 180 kW of output, this station also knows how to flex its muscles, charging most electric bus and truck batteries in 2-3 hours.

FLEX  
180

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



Add up to three charging dispensers per station and configure them to output in sequence, in parallel, or dynamically.



Certified to UL standards and built to last 15+ years with NEMA 3R rated metal enclosures fit for all weather conditions.



# Flex 180 kW



**Versatile:** Flexible EV charging the way you want it. Mix and match up to three DC charging columns, dispenser reels, or inverted pantographs per station, enabling you to make the most out of your available energy.



**Smart:** With the Flex Charge System, you can configure each station to distribute your energy in the method that suits you.

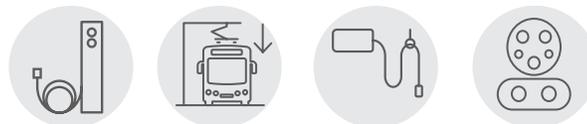
- **Sequential:** 1 active session @ 180 kW (rotates when full)
- **Parallel:** Up to 3 active sessions @ 60 kW each
- **Dynamic:** 1-3 active sessions @ 180 / 120 / 60 kW

**96.2%  
Efficiency**

## General

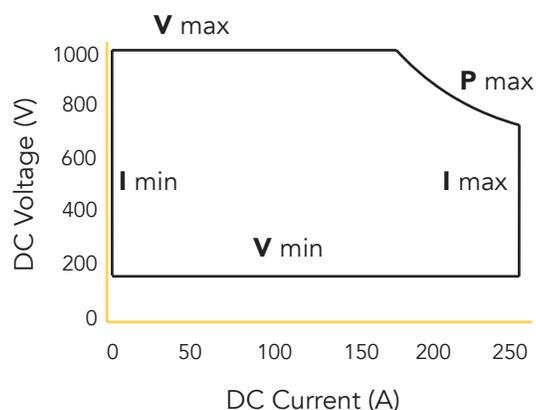
Charging standard:	SAE J1772 / SAE J3105-1
Communication standard:	DIN70121 / ISO15118-1/2/3
Compliance and safety:	UL 2202 / UL 2231
Power factor above 50% rated:	>0.98
Peak efficiency:	96.2%
Dielectric withstand:	3000 V
Network cellular:	4G modem
Back office:	OCPP 1.6J, OCPP 2.0.1 ready
Temperature range:	-22 to 113 °F (derating may apply)
Operational noise level:	<60 dB(A) @ 40"
System weight:	1323 lbs.
Dimensions:	H: 99", W: 32", D 32"
Protection	NEMA 3R
Environment operating:	ISO 12944: C4 H

## Interfaces



## Input

Input connections, Frequency	480 V / 60 Hz (3P + GND)
Full load / idle input power	205 kVA / 100 VA
Input line-line voltage range:	480 V AC +6/-13%
Input max. AC phase current:	246 A @ 480 V AC



## Output

Output DC voltage range:	150 - 1000 V
Rated DC output power:	Single output: 180 kW Triple outputs: 60 kW (each) Dynamic output: 60 / 120 /180 kW
Maximum DC output current:	Single output: 250 A Triple outputs: 83 A (each) Dynamic output: 83 / 167 /250 A

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# 250 A DC column for Flex 180 kW



Charge any CCS type-1 (SAE J1772) compatible EV with industry-leading reliability.



360 degree color-changing status indicator light for easy visibility of charger status.



Flexible installation options for customizable site design (wall or floor mounted)



## Ideal for:



E-Bus depot charging

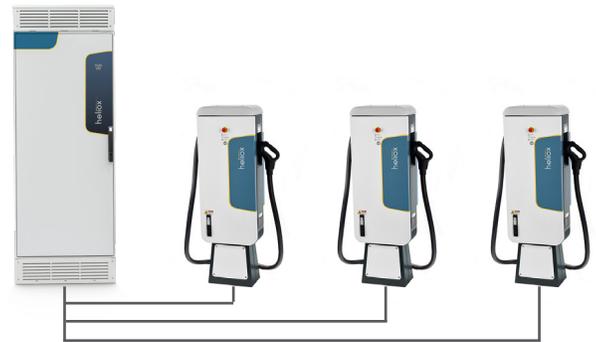


E-Truck depot charging

## Specifications

Charging standard:	SAE J1772
Communication standard:	DIN70121 / ISO15118-1/2/3
CCS plug standard:	SAE J1772 (CCS type-1)
Compliance and safety:	UL 2202 / UL 2231
Maximum DC voltage:	1000 V
Maximum DC current:	250 A
Input connections from EVSE base station:	DC+, DC-, Gnd, communication, 480 V AC 60 Hz
Plug mating force:	< 75 N
Cable length:	Standard: 11.5 ft. Extended: 23 ft.
Cable thermal protection:	Charge current derating based on connector temperature feedback
Human machine interaction:	Charger status indication and button to stop charging session
Temperature range:	-13 to 113 °F, derating may apply
Environmental operating:	ISO 12944: C4 H
Operational noise level:	< 55 dB(A) @ 40"
Protection:	NEMA 3R / IK10 / IP44
System weight:	220 lbs.
System dimensions:	H 55", W: 18", D: 10"
System clearance:	CWL: 8", CWR: 20", CD: 37"

## Setup Configuration



Displayed config.: Flex 180 kW >> DC outlet column (3)

- Sequential:** 1 active session @ 180 kW (rotating)
- Parallel:** Up to 3 active sessions @ 60 kW each
- Dynamic:** 1-3 active sessions @ 60 / 120 / 180 kW

## Status indication



# Inverted pantograph for Flex 180 kW



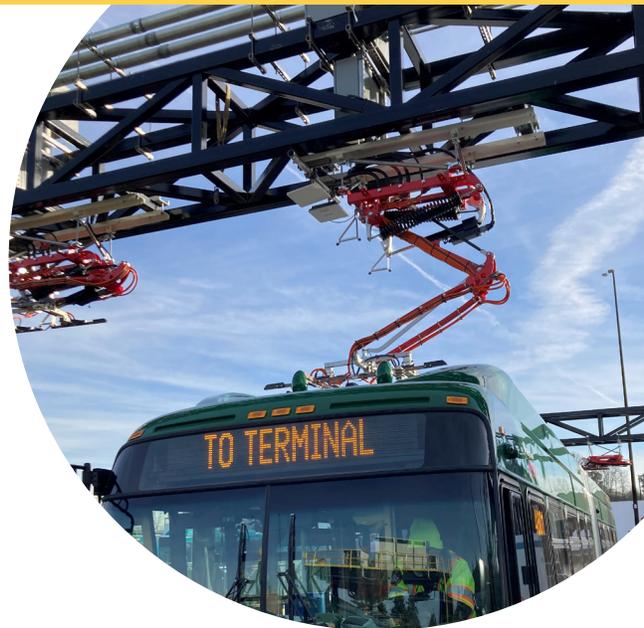
Quickly add range to any SAE J3105-1 compatible EV for reliable opportunity charging.



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



Optional external color-changing status indicator light ensures optimal visibility of every dispenser's status.



**Ideal for:**



E-Bus depot charging

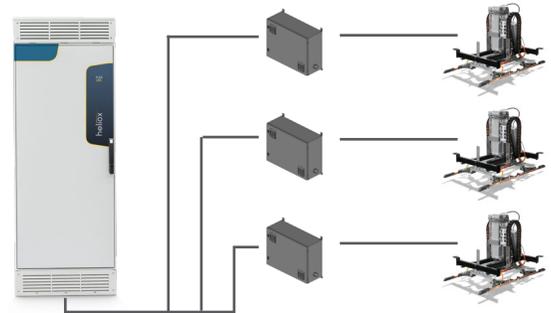


E-Bus opportunity charging

## Specifications

Charging standard:	SAE J3105-1
Communication standard:	SAE J3105-1
Conductive ACD type:	SAE J3105 / 1 cross-rail connection
Compliance and safety:	UL 2202 / UL 2231
DC voltage range:	250 - 1000 V
Maximum DC current	250 A
Input connections from EVSE to base station:	DC+, DC-, Gnd, communication, 480 Vac 60 Hz
ACD actuation (Lowering and reaction each):	5 seconds (fast IP) 12 seconds (depot IP)
Working length (stroke range):	250 A IP: 3.5" - 14.17" 600 A IP: 30" - 89.65"
Distance DC outlet to ACD:	Up to 33 ft.
EV to EVSE initialization:	SAE J3105-1
Human machine interactions:	Charger status indication
Temperature range:	-13 to 113 °F, derating above 104 °F
Operational noise level:	< 55 dB(A) @ 60"
System weight:	DC cabinet: 220 lbs. 250 A IP: 230 lbs. 600 A IP: 430 lbs.
Protection:	NEMA 3R / IK10 (excluding ACD)
Environment operating:	ISO 12944: C4 H
System dimensions:	DC cabinet: H: 24", W: 32", D: 12" 250 A IP: H: 63", W: 42", D: 40" 600 A IP: H: 23", W: 32", D: 86"
System clearance:	CWL: 20-70", CWR: 20", CD: 44"

## Setup Configuration



Displayed config.: Flex 180 kW (1) >> DC Cabinet (3) >> 250 A Inverted Pantograph (3)

- Sequential:** 1 active session @ 180 kW (rotating)
- Parallel:** Up to 3 active sessions @ 60 kW each
- Dynamic:** 1-3 active sessions @ 60 / 120 / 180 kW

## Ready to get started?

Scan me to start your journey!



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