



Infrastructure Solutions™

# Charger Catalog



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# Plug-in Chargers



## Model

## HVC-C 150

Power Output (kW)	150 kW
Max Output Current (A)	200 A
Voltage Range (VDC)	150 - 850 VDC
AC Input Voltage (V)	480 VAC +/- 10%
AC Input Connection	3P + PE
Rated Input Power (kVA)	170 kVA
Rated Input Current (A)	198 A
Operating Temperature (C°)	-35 to 50 (C°)
Outdoor Rated	NEMA 3R, IP54 - IK10
Max Altitude (m)	< 2,500 m
User Interface	N/A
Remote Monitoring	Optional
Charge Protocol	SAE J1772
Connector Type	CCS Type 1
Cord Length (m)	7.0 m (std), 9.5 m (opt)
Number of Remote Dispensers	Up to 3
Dimensions (Inches)	79.9" x 46.1" x 30.3"
Weight (Kg)	1,340 kg
Buy-America Compliant	Yes
Certified	UL/CSA
Number of Power Cabinets	1
Special Feature	Sequential Charging



HVC-C 150 KW

# Plug-in Chargers



SINGLE OUTLET CCS WITH CABLE MANAGEMENT SYSTEM

DUAL OUTLET CCS WITH CABLE MANAGEMENT SYSTEM

## Model

### TERRA 54HV TERRA 94

### TERRA 124

### TERRA 184

Power Output (kW)	50 kW / 90 kW	120 kW	180 kW
Max Output Current (A)	125 A / 200 A	200 A	200 A
Voltage Range (VDC)	150 - 920 VDC	150 - 920 VDC	150 - 920 VDC
AC Input Voltage (V)	480 VAC +/- 10%	480 VAC +/- 10%	480 VAC +/- 10%
AC Input Connection	3P + PE	3P + PE	3P + PE
Rated Input Power (kVA)	55 kVA / 96 kVA	128 kVA	192 kVA
Rated Input Current (A)	80 A / 115 A	153 A	230 A
Operating Temperature (C°)	-35 to 55 (C°)	-35 to 55 (C°)	-35 to 55 (C°)
Outdoor Rated	NEMA 3R	NEMA 3R	NEMA 3R
Max Altitude (m)	< 2,000 m	< 2,000 m	< 2,000 m
User Interface	LCD Display	LCD Display	LCD Display
Remote Monitoring	Optional	Optional	Optional
Charge Protocol	SAE J1772	SAE J1772	SAE J1772
Connector Type	CCS Type 1	CCS Type 1	CCS Type 1
Cord Length (m)	6 m	6 m	6 m
Number of Remote Dispensers	N/A	N/A	N/A
Dimensions (Inches)	31" x 22.2" x 75" 74.8" x 22.2" x 34.6"	74.8" x 22.2" x 34.6"	74.8" x 22.2" x 34.6"
Weight (Kg)	350 kg	365 kg	395 kg
Buy-America Compliant	No	Yes	Yes
Certified	UL/CSA	UL/CSA	UL/CSA
Number of Power Cabinets	1	1	1
Special Features	N/A	Parallel Charging	Parallel Charging

# Plug-in Chargers



## Model

## CPE250

## EXPRESS PLUS

Power Output (kW)	Single Station: 62.5 kW Paired Station: 125 kW	Up to 200 kW (additional power blocks can be added)
Max Output Current (A)	Single Station: 156 A Paired Station: 200 A	325 A
Voltage Range (VDC)	200 - 1,000 VDC	200 - 1,000 VDC
AC Input Voltage (V)	480 VAC +/- 10%	480 VAC +/- 10%
AC Input Connection	3P + PE	3P + PE
Rated Input Power (kVA)	66.5 kVA	216 kVA
Rated Input Current (A)	80 A	260 A
Operating Temperature (C°)	-40 to 50 (C°)	-40 to 50 (C°)
Outdoor Rated	NEMA 3R, IP54	NEMA 3R, IP54
Max Altitude (m)	< 3,000 m	< 3,000 m
User Interface	10" LCD Display	8" LCD Display
Remote Monitoring	Optional	Optional
Charge Protocol	SAE J1772, OCPP 2.0.1	SAE J1772, OCPP 2.0.1
Connector Type	CCS Type 1	CCS Type 1
Cord Length (m)	4.27 m (option to make longer)	4.5 m (std) with CMS, 7.6 m (opt), 10 m (opt)
Number of Remote Dispensers	N/A	Up to 6
Dimensions (inches)	Station: 88.22" x 28.74" x 36"	Station: 94.48" x 28.34" x 11.02" Power Block: 86.25" x 38.89" x 40.90"
Weight (Kg)	Station: 250 kg (w/o power modules)	Station: 250 kg Power Block: 455 kg (w/o power modules)
Buy-America Compliant	Yes	Yes
Certified	UL/CSA	UL/CSA
Number of Power Cabinets	Up to 2	Up to 4
Special Feature	Sequential Charging, Parallel Charging	Sequential Charging, Parallel Charging

# Plug-in & Overhead Chargers



Model	HVC 200	HVC 300	HVC 360
Power Output (kW)	200 kW	300 kW	360 kW
Max Output Current (A)	285 A	430 A	500 A
Voltage Range (VDC)	150 - 940 VDC	150 - 940 VDC	150 - 940 VDC
AC Input Voltage (V)	480 VAC	480 VAC	480 VAC
AC Input Connection	3P + PE	3P + PE	3P + PE
Rated Input Power (kVA)	218 kVA	326 kVA	391 kVA
Rated Input Current (A)	262 A	392 A	470 A
Operating Temperature (C°)	-35 to 55 (C°)	-35 to 55 (C°)	-35 to 55 (C°)
Outdoor Rated	NEMA 3R, IP54-IK10	NEMA 3R, IP54-IK10	NEMA 3R, IP54-IK10
Max Altitude (m)	2,000 m	2,000 m	2,000 m
User Interface	N/A	N/A	N/A
Remote Monitoring	Optional	Optional	Optional
Charge Protocol	SAE J1772/J3105	SAE J1772/J3105	SAE J1772/J3105
Connector Type	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph
Cord Length (m)	7.0 m (std), 9.5 m (opt)	7.0 m (std), 9.5 m (opt)	7.0 m (std), 9.5 m (opt)
Number of Remote Dispensers	4	4	4
Dimensions (Inches)	85.83" x 46.06" x 30.32"	85.83" x 46.06" x 30.32"	85.83" x 46.06" x 30.32"
Weight (Kg)	830 kg	890 kg	950 kg
Buy-America Compliant	Yes	Yes	Yes
Certified	UL/CSA	UL/CSA	UL/CSA
Number of Power Cabinets	1	1	1
Special Feature	Dynamic	Dynamic	Dynamic

# Plug-in & Overhead Chargers

heliox



FLEX 180 KW



CCS COLUMN

## Model

## FLEX 180 KW

## FLEX 360 KW

## FLEX 540 KW

Power Output (kW)	180 kW	360 kW	540 kW
Max Output Current (A)	250 A	500 A	750 A
Voltage Range (VDC)	150 - 1,000 VDC	150 - 1,000 VDC	150 - 1,000 VDC
AC Input Voltage (V)	480 VAC	480 VAC	480 VAC
AC Input Connection	3P + PE	3P + PE	3P + PE
Rated Input Power (kVA)	205 kVA	400 kVA	569 kVA
Rated Input Current (A)	300 A	593 A	788 A
Operating Temperature (C°)	-25 to 45 (C°)	-30 to 45 (C°)	-30 to 45 (C°)
Outdoor Rated	NEMA 3R, IP54/IK10	NEMA 3R, IP54/IK10	NEMA 3R, IP54/IK10
Max Altitude (m)	< 2,000 m	< 2,000 m	< 2,000 m
User Interface	N/A	N/A	N/A
Remote Monitoring	Optional	Optional	Optional
Charge Protocol	J1772, J3105	J1772, J3105	J1772, J3105
Connector Type	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph
Cord Length (m)	3.5 m with option for longer cable	3.5 m with option for longer cable	3.5 m with option for longer cable
Number of Remote Dispensers	Up to 3	Up to 3	Up to 3
Dimensions (Inches)	90.55" x 31.49" x 31.49"	90.55" x 62.99" x 31.49"	98.5" x 94.5" x 31.5"
Weight (Kg)	600 kg	1,200 kg	1,814 kg
Buy-America Compliant	Yes	Yes	Yes
Certified	UL	UL	UL
Number of Power Cabinets	1	2	4
Special Feature	Dynamic	Dynamic	Dynamic

# Plug-in and Overhead Chargers



NBI 180

Model	Nbi120	Nbi150	Nbi180
Power Output (kW)	120 kW	150 kW	180 kW
Voltage Range (VDC)	150 - 1,000 VDC	150 - 1,000 VDC	150 - 1,000 VDC
Max Output Current (A)	200 A	200 A	250 A
AC Input Voltage (V)	480 VAC	480 VAC	480 VAC
AC Input Connection	3P + N + PE	3P + N + PE	3P + N + PE
Rated Input Power (kVA)	128 kVA	160 kVA	192 kVA
Rated Input Current (A)	155A	194A	232A
Operating Temperature (C°)	-25 to 50 (C°) (std) -30 to 50 (C°) (opt)	-25 to 50 (C°) (std) -30 to 50 (C°) (opt)	-25 to 50 (C°) (std) -30 to 50 (C°) (opt)
Outdoor Rated	NEMA 3R, IP54/IK10	NEMA 3R, IP54/IK10	NEMA 3R, IP54/IK10
Max Altitude (m)	2,000 m	2,000 m	2,000 m
User Interface	N/A	N/A	N/A
Remote Monitoring	Optional	Optional	Optional
Charge Protocol	J1772/J3105	J1772/J3105	J1772/J3105
Connector Type	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph
Cord Length	5m (std), 7.5m (opt)	5m (std), 7.5m (opt)	5m (std), 7.5m (opt)
Number of Remote Dispensers	4	4	4
Dimensions (Inches)	78.72" x 39.36" x 31.56"	78.72" x 39.36" x 31.56"	78.72" x 39.36" x 31.56"
Weight (Kg)	420 kg	460 kg	500 kg
Certified	UL/CSA	UL/CSA	UL/CSA
Number of Power Cabinets	1	1	1
Buy America Compliant	Yes	Yes	Yes
Special Feature	Parallel, Sequential	Parallel, Sequential	Parallel, Sequential

# Plug-in and Overhead Chargers



NBI 360

Model	Nbi180	Nbi240	Nbi360
Power Output (kW)	180 kW	250kW	360 KW
Max Output Current (A)	250 A	400 A	500 A
Voltage Range (VDC)	150 - 1,000 VDC	250 - 1,000 VDC	150 - 1,000 VDC
AC Input Voltage (V)	480 VAC	480 VAC	480 VAC
AC Input Connection	3P + N + PE	3P + N + PE	3P + N + PE
Rated Input Power (kVA)	193 kVA	256 kVA	384 kVA
Rated Input Current (A)	232A	313A	467A
Operating Temperature (C°)	-25 to 50 (C°) (std) -30 to 50 (C°) (opt)	-25 to 50 (C°) (std) -30 to 50 (C°) (opt)	-25 to 50 (C°) (std) -30 to 50 (C°) (opt)
Outdoor Rated	NEMA 3R, IP54/IK10	NEMA 3R, IP54/IK10	NEMA 3R, IP54/IK10
Max Altitude (m)	2,000 m	2,000 m	2,000 m
User Interface	N/A	N/A	N/A
Remote Monitoring	Optional	Optional	Optional
Charge Protocol	J1772/J3105	J1772/J3105	J1772/J3105
Connector Type	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph	CCS Type 1, Inverted Pantograph
Cord Length	5m (std), 7.5m (opt)	5m (std), 7.5m (opt)	5m (std), 7.5m (opt)
Number of Remote Dispensers	4	4	4
Dimensions (Inches)	90.6" x 60.96" x 39.72"	90.6" x 60.96" x 39.72"	90.6" x 60.96" x 39.72"
Weight (Kg)	880 kg	1,040 kg	1,200 kg
Certified	UL/CSA	UL/CSA	UL/CSA
Number of Power Cabinets	1	1	1
Buy America Compliant	Yes	Yes	Yes
Special Feature	Parallel, Sequential	Parallel, Sequential	Parallel, Sequential

# Overhead Chargers



## Model

## HVC 150PD

## HVC 300PD

## HVC 450PD

Power Output (kW)	150 kW	300 kW	450 kW
Max Output Current (A)	250 A	500 A	600 A
Voltage Range (VDC)	150 - 850 VDC	150 - 850 VDC	150 - 850 VDC
AC Input Voltage (V)	480 VAC +/- 10%	480 VAC +/- 10%	480 VAC +/- 10%
AC Input Connection	3P + PE	3P + PE	3P + PE
Rated Input Power (kVA)	170 kVA	340 kVA	510 kVA
Rated Input Current (A)	198 A	2 x 198 A	3 x 198 A
Operating Temperature (C°)	-35 to 50 (C°)	-35 to 50 (C°)	-35 to 50 (C°)
Outdoor Rated	NEMA 3R, IP54-IK10	NEMA 3R, IP54-IK10	NEMA 3R, IP54-IK10
Max Altitude (m)	< 2,500 m	< 2,500 m	< 2,500 m
User Interface	N/A	N/A	N/A
Remote Monitoring	Optional	Optional	Optional
Charge Protocol	SAE J3105	SAE J3105	SAE J3105
Connector Type	Inverted Pantograph	Inverted Pantograph	Inverted Pantograph
Cord Length (m)	N/A	N/A	N/A
Number of Remote Dispensers	N/A	N/A	N/A
Dimensions (Inches)	79.9" x 46.1" x 30.3"	2 x 79.9" x 46.1" x 30.3"	3 x 79.9" x 46.1" x 30.3"
Weight (Kg)	1,340 kg	2 x 1,340 kg	3 x 1,340 kg
Buy-America Compliant	Yes	Yes	Yes
Certified	UL/CSA	UL/CSA	UL/CSA
Number of Power Cabinets	1	2	3
Special Feature	N/A	N/A	N/A

# Mobile Chargers

# heliox

## Model

## Mobile 60

Power Output (kW)	60 kW
Max Output Current (A)	150 A
Voltage Range (VDC)	200 - 1,000 VDC
AC Input Voltage (V)	480 VAC
AC Input Connection	3P + PE
Rated Input Power (kVA)	65 kVA
Rated Input Current (A)	90 A
Operating Temperature (C°)	-30 to 45 (C°)
Outdoor Rated	NEMA 3R
Max Altitude (m)	2,000 m
User Interface	7" LCD
Remote Monitoring	Optional
Charge Protocol	SAE J1772
Connector Type	CCS Type 1
Cord Length (m)	3.5 m
Number of Remote Dispensers	N/A
Weight (Kg)	105 kg
Buy-America Compliant	Yes
Certified	UL
Number of Power Cabinets	1
Special Feature	N/A



MOBILE 60

## Supporting mobility projects from start to finish.

NFI Infrastructure Solutions is a service dedicated to providing safe, reliable project management for smart, sustainable mobility projects.



### Support

Guide mobility projects from start to finish.



### Optimization

Focus on maximizing energy transfer and usage.



### Deployment

Supports all NFI North American electric bus deployments.



### Adoption

Over 540 EV chargers installed to date.



### Planning

Infrastructure planning and development.



### Transition

Cohesive shift to zero-emission electric technology.

NFI Infrastructure Solutions provides a full suite of comprehensive charging deployment services, with the ability to:



Deliver on-site grid-to-bus testing and commissioning to ensure safe and reliable infrastructure.



Provide design and engineering services for infrastructure.



Determine wayside and depot charging requirements.



Conduct site visits.



Install chargers.



Optimize energy management strategies between grid and the bus.



Oversee make-ready utility services.



Design coordination with authorities having jurisdiction.



Offer aftermarket support for services and parts.



Coordinate UL certification.

