

# Velion

Electric Vehicle Charger



**LINCOLN<sup>®</sup>**  
**ELECTRIC**

**Reliable EV  
Chargers for a  
Realistic World**

The Velion™ electric vehicle charger delivers the next generation in EV charging technology. Engineered with industrial-grade components and designed for single and multi-station scalability, the Velion platform delivers fast charging speeds with unparalleled reliability for the ultimate performance and uptime.

**Charging Type »**

DC Fast Charging

**DC Output Voltage »**

200-1000V DC

**DC Output Current »**

Up to 150A

**DC Output Power »**

Up to 150kW

**Input Voltage »**

480VAC +/- 10% (60Hz), 3-Phase,  
Protective Earth (UL Model, No Neutral)

**Product Numbers:**

K5489-1 Velion CCS1 Single Cable Pedestal

K5489-1-2XX-12 Velion Single Charge Session, Dual  
Cable Pedestal

K5488-1-150-1 Velion 150kW DCFC Power Tower

These products are manufactured with steel made and melted in the U.S.A. and comply with Buy America (BA), Buy American (BAA), Build America, Buy America (BABA), and American Iron & Steel (AIS) standards.

# REDEFINING RELIABILITY FOR ELECTRIC VEHICLE CHARGING



## Reliability

As a Charge Point Operator, you need charging technology that delivers continuous uptime. Backed by Lincoln Electric's foundation of manufacturing experience and expertise that spans decades, the Velion is designed and built to deliver industry-leading reliability.



## User Experience

From the ground up, the Velion was designed with EV drivers and Charge Point Operators (CPO) in mind. The Velion does more than just power up your vehicles. It provides enhanced reliability and efficiency in managing multiple charging stations, seamless integration, and the ability to provide a superior user experience to EV drivers.



## Scalability

The Velion can operate as a single system or be configured by the manufacturer using the same building blocks in a series to create a more powerful multi-station system. Whether you're looking for one DC fast charger or many for a fleet, the Velion can fit virtually any EV charging need.



## Customer Service & Support

Velion is built on generations of manufacturing expertise. Lincoln Electric's industry-leading 3-year parts and labor warranty in the EV charging market underscores the depth of knowledge, experience and customer support that we've demonstrated in the other critical industries we have served for several decades (shipbuilding, construction, aerospace, nuclear power and more).

# RELIABILITY

## Assembled in the USA, by a Leader in Manufacturing

When you choose the Velion EV charger, you're choosing an American-assembled product developed by experts in vertically integrated manufacturing of industrial power conversion equipment.

The Velion consists of a substantial amount of domestic content designed for durability and reliability, even in the harshest outdoor and indoor environments. All electronic components are fully encapsulated, with potted printed circuit boards, and the clean internal construction of the power tower includes minimal point-to-point wiring to reduce the potential for electrical failure.





**VELION™**

Charging Details



**DESIGNED WITH  
PURPOSE**



# THE VELION EXPERIENCE

## Easy to Use, Easy to Connect

When you install a Velion charger, your customers – even those who are newcomers to EV technology – enjoy an easy-to-use experience. All displays are ADA compliant and can be shifted to any level on the post to optimize visibility. HMI interactions are programmed in-house and can be customized to individual preferences. Information is displayed via simple, straightforward graphics to ensure a positive interface for drivers at every level of experience, including first-time users.

In addition, the Velion EV charger ensures optimal connectivity. Multiple plug connector options, including NACS and CCS1, address every possible charging scenario, and multi-band cellular connections on all major networks virtually eliminate the loss of cellular connection to the charger.

*Wherever you are, wherever you're going, Velion makes charging easy.*

# SCALABILITY

## Any Configuration, Anytime

Whether you own and operate a single EV or an entire fleet, the Velion is designed to accommodate your specific needs. It can function as a single system or be configured as multiple powered systems to optimize scalability, flexibility, and performance. In addition, Lincoln Electric offers various customization options – designs, colors, messaging and more.

## Fast Lead Times, Flexible Financing

We can fulfill small or large orders and deliver units on short lead times with minimal to no down payment. Our efficient delivery process ensures that the stations are quickly installed and operational, allowing you to start generating revenue as soon as possible. Additionally, our flexible financing options make the equipment accessible without creating financial stress, ensuring a smooth and affordable transition to EV charging infrastructure.



All power and communication modules are built on rolling shelves to ease installation and maintenance.





# CUSTOMER SERVICE & SUPPORT

## The Value of Experience

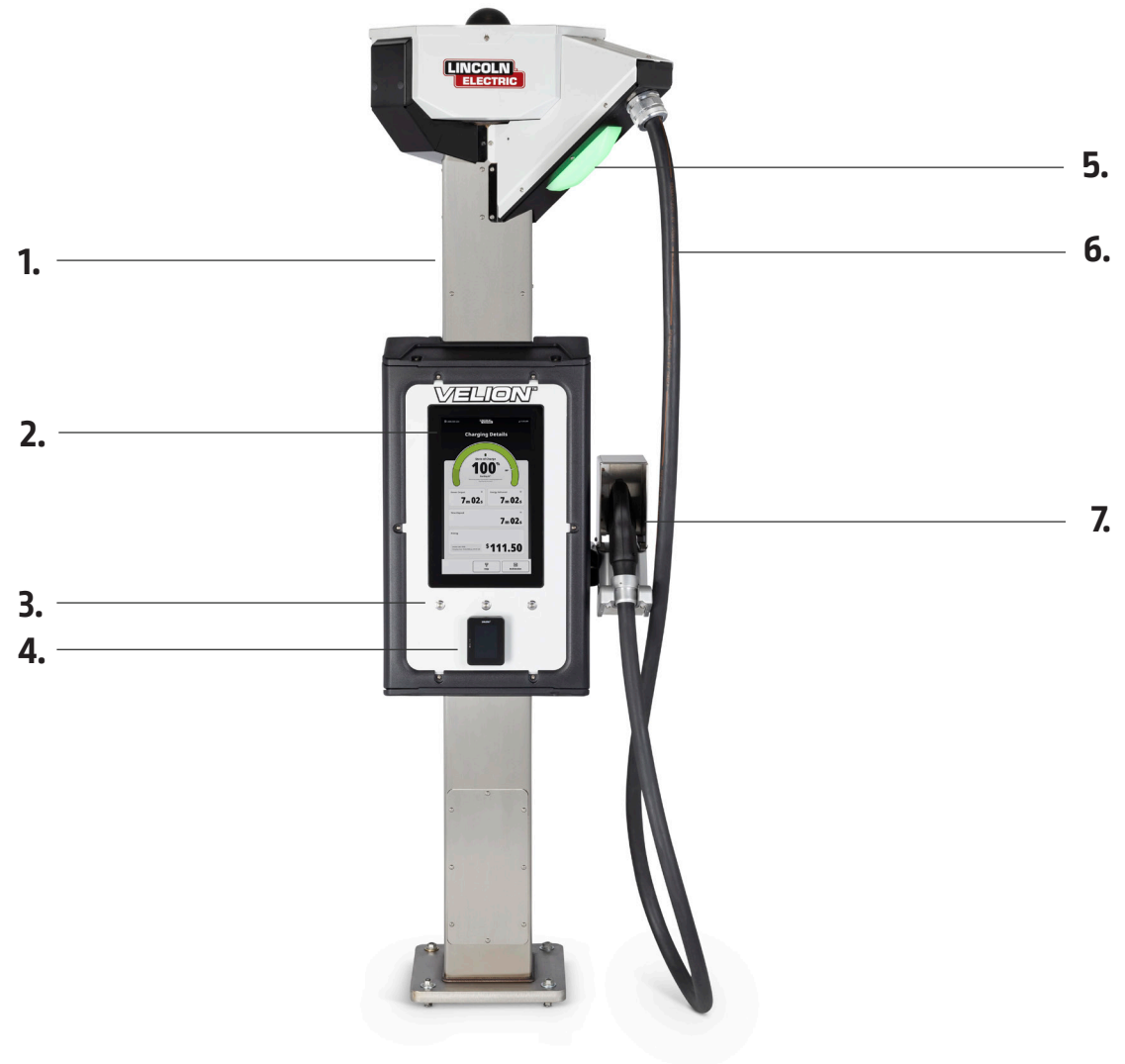
Experience the unparalleled quality and support that only Lincoln Electric can offer. With over a century of expertise in vertically integrated manufacturing, Velion users enjoy an unmatched purchase and ownership experience, backed by our exceptional customer service.

- » 3-year standard parts and labor warranty, with options to extend warranties to 5 or 10 years.
- » Onsite support provided by our network of service technicians throughout the U.S. and Canada.
- » Fast turnaround on service parts.
- » Top-tier, end-to-end cybersecurity to help vehicle owners as well as charger owners maintain compliance with NEVI standards for security and performance.

# KEY CONTROLS

## Velion 150kW DCFC Pedestal (K5489-1)

1. Adjustable Display Height
2. 15 inch HMI User Interface
3. Navigation Buttons
4. Payment System
5. Velion Status Light
6. 12 ft. Cable
7. CCS1 Connection



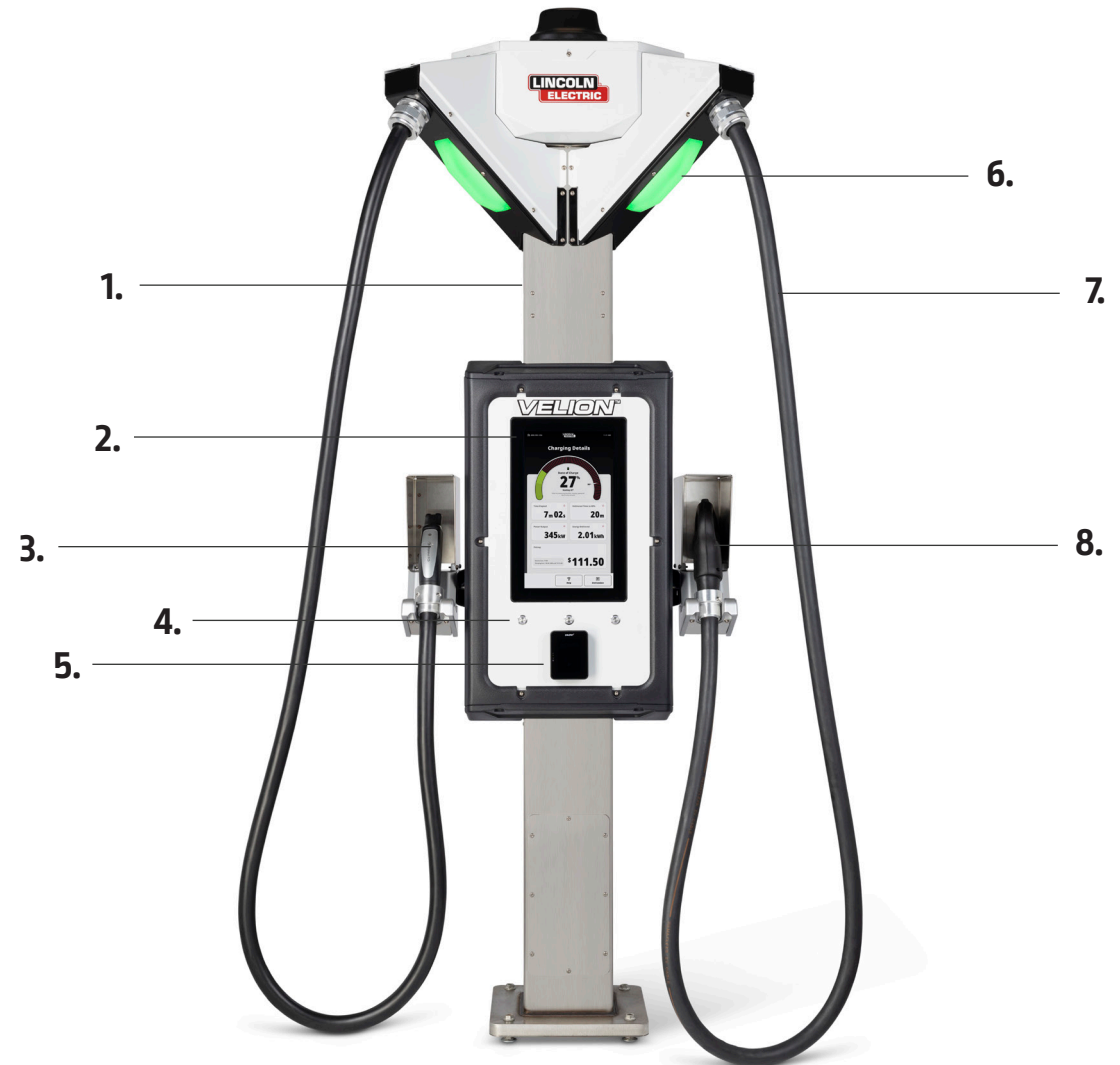


# KEY CONTROLS

## Velion Single Charge Session, Dual Cable Pedestal (K5489-1-2XX-12)

Part Number	Product Name	Description
K5489-1-2CN-12	Velion Single Charge Session, NACS CCS1 Dual Cable Pedestal	NACS connection on left, CCS1 connection on right
K5489-1-2NC-12	Velion Single Charge Session, CCS1 NACS Dual Cable Pedestal	CCS1 connection on left, NACS connection on right

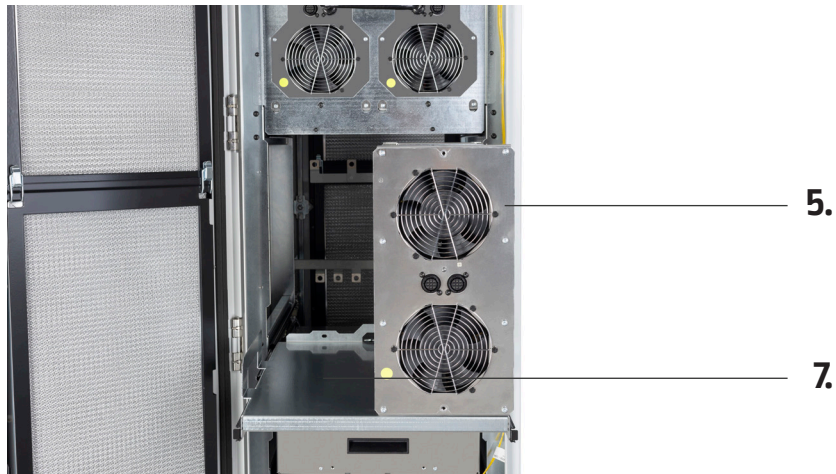
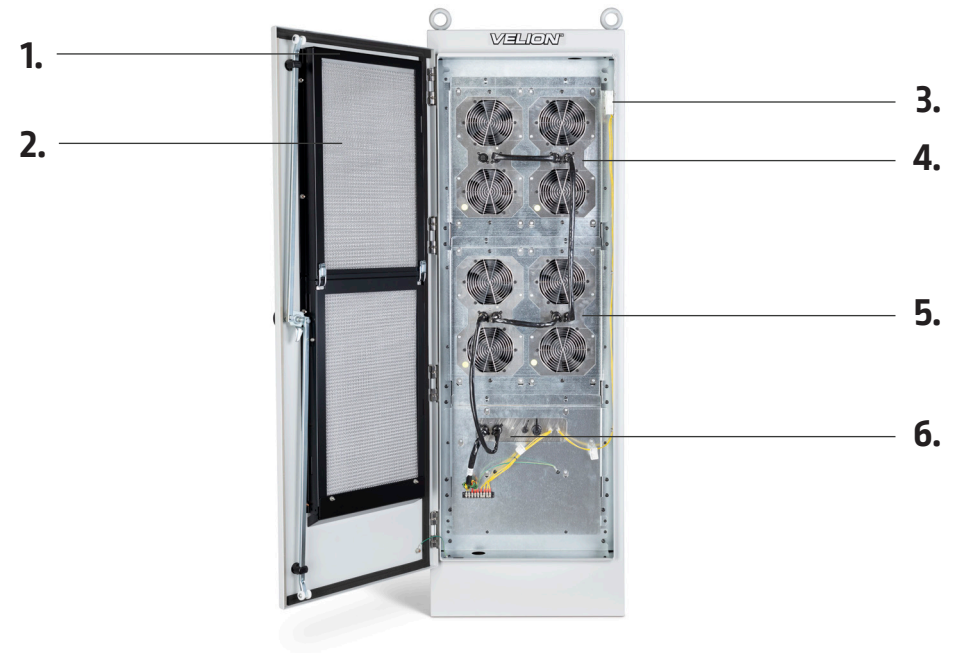
1. Adjustable Display Height
2. 15 inch HMI User Interface
3. NACS or CCS1 Connection
4. Navigation Buttons
5. Payment System
6. Velion Status Light
7. 12 ft. Cable
8. CCS1 or NACS Connection



# KEY CONTROLS

## Power Tower (K5488-1-150-1)

1. Rubber Gasket for Door
2. Power Tower Door
3. Door Sensor
4. 50kW Module (qty. 2)
5. 50kW Module (qty. 1)
6. 9-Pin Connection
7. Sliding Drawer for Modules



# PRODUCT SPECIFICATIONS

Part Number	Product Name	Description
K5489-1	Velion CCS1 Single Cable Pedestal	Single CCS1 connection*
K5489-1-2CN-12	Velion Single Charge Session, NACS CCS1 Dual Cable Pedestal	NACS connection on left, CCS1 connection on right
K5489-1-2NC-12	Velion Single Charge Session, CCS1 NACS Dual Cable Pedestal	CCS1 connection on left, NACS connection on right
K5488-1-150-1	Velion 150kW DCFC Power Tower	150kW power distribution cabinet
K5490-X	Velion Electric Vehicle Charger Single Cable One-Pak	One-Paks available in various configurations. Confirm specifications prior to purchase *Additional configurations available upon request

Charging Station	
Charging Type	Level 3, DC Fast Charging
Input Voltage	480VAC +/- 10% (60Hz), 3-Phase, Protective Earth (UL Model) (no neutral)
Input Current	194A
DC Output Voltage	200-1000V DC
Output Current	up to 300A
DC Output Power (max)	150kW
Efficiency (full-load)	>95%
Power Factor (full-load)	> .99
THDi	< 5%
Enclosure Rating	NEMA 3R
IK Rating	IK08
Operating Temperature	-25 deg C to +50 deg C
Humidity	20 - 95% Rh non-condensing
Mounting	Free Standing Cabinet
Dimensions - in (mm)	36 x 24 x 72 (914 x 609 x 1828)
Weight - lb (kg)	1003 (455)
Overvoltage Category	III

Pedestal	
Outlet Type (Single Pedestal)	Single Session – CCS1
Outlet Type (Dual Pedestal)	NACS and CCS1
Network Connection	GSM/3G/4G modem;10/100 Base-T Ethernet
Communication	OCPP 2.0.1 and 1.6
Authentication/Payment	RFID/Credit card reader/App
User Interface	15 in. LCD high-contrast touchscreen
Enclosure Rating	NEMA 3R
IK Rating	IK08
Operating Temperature	-35 deg C to +50 deg C
Humidity	20 - 95% Rh non-condensing
Mounting	Free Standing Cabinet
Cable Length - ft (m)	12 (3.7)
Dimensions - in (mm)	24 x 19 x 87 (610 x 483 x 2211)
Weight - lb (kg)	≤400 (181)
System Certification Standards	
Charging System	UL2202, UL2231-1, -2, SAE J1772, SAE J2894, FCC Part 15, Class A
Communication to the EV	DIN 70121, ISO15118-2/-3

\*Product specifications and features are subject to change. Confirm specification prior to purchase.



#### CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, cutting equipment and EV charging systems. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation or application. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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