

VORTEX PLUS

NACS TO CCS1 ADAPTER
(WITH INTERLOCK)



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INTRODUCTION TO THE NACS TO CCS ADAPTER

The Vortex Plus NACS to CCS adapter allows CCS1-enabled electric vehicles to use the North American Charging Standard (NACS) to access NACS DC fast chargers.

WARNING



High Voltage - Handle with care and ensure proper connection before use.

Caution - Risk of Electric Shock and Fire. Do not use this product if there is any damage to the EV cable, the vehicle connector, or the vehicle inlet.

IMPORTANT SAFETY INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following. This manual contains important instructions for Model LEADPTeslaCCSBLKUSK that shall be followed during use and maintenance of the adapter.

- a) Read all instructions before using this product.
- b) Do not put fingers into the adapter.
- c) Do not use this product if the flexible output cable, vehicle connector, vehicle inlet, or the adapter itself has broken insulation, broken, or cracked housings, or if internal parts are accessible including wiring.
- d) Do not use this adapter with any charger or EV that is capable of exceeding the adapter's rated voltage or current capacity. Some EVs and EVSE combinations are capable of multiple voltages or limited durations of current overloading designed for normal EVSE to EV connections. Use of the adapter in these situations could result in unsafe conditions such as fire, burns, or exposure of high voltage.

***SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.**

For use with NACS DC fast chargers ONLY.



NOT suitable for use with:

- Wall Connectors
- Mobile Connectors
- Destination Chargers
- Any other EV chargers

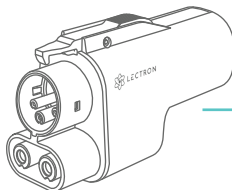


PLEASE READ INSTRUCTIONS CAREFULLY BEFORE USE:

- Intended for CCS1 vehicles within the NACS alliance only. Please check with your automaker for compatibility.
- Follow the correct connection and disconnection procedures as prescribed in the user manual.
- Do not disconnect during charging.
- Protect from water and moisture.
- Operate within the temperature range of -22°F to 122°F.
- Handle with care and store in a safe location.
- Do not clean with detergent.
- Do not open or modify the adapter.

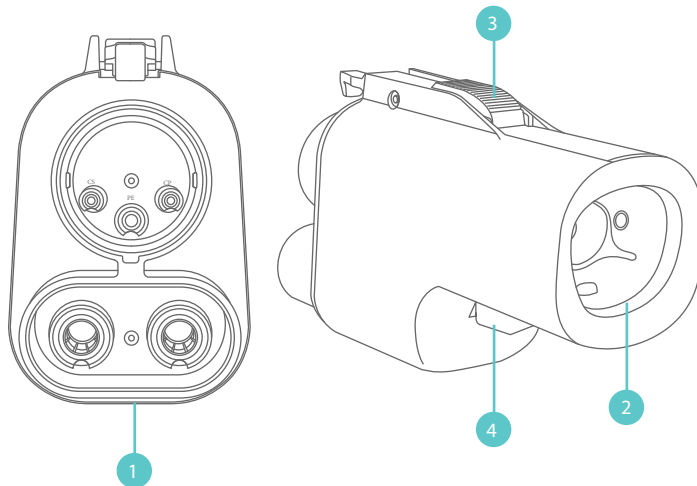
Contact Customer Support at **contact@ev-lectron.com** for usage guidelines, maintenance, or repairs.

WHAT'S INCLUDED



1 x NACS to CCS1 Adapter

PARTS OVERVIEW



- 1. CCS1 Connector
- 2. NACS DC Inlet
- 3. CCS1 Unlock Latch
- 4. NACS Unlock Button

BEFORE USE

NOTE: Ensure the Tesla Supercharger supports CCS1 charging.

WARNING: Do not store the NACS to CCS1 Adapter outside of the storage temperature range of -40°F to 185°F.

CHARGING TIME

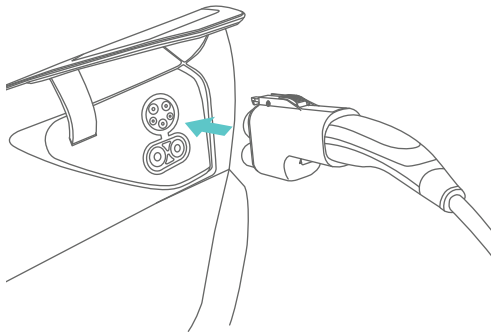
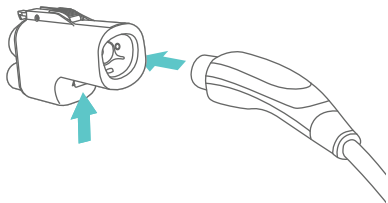
Charging time varies depending on the NACS DC fast charging station, electric vehicle specifications, environmental conditions, and battery temperature.

The NACS to CCS Adapter includes built-in temperature monitoring. Charging power will decrease if the internal components of the adapter exceed 194°F. Operation will shut off if the surface temperature of the adapter reaches 140°F.

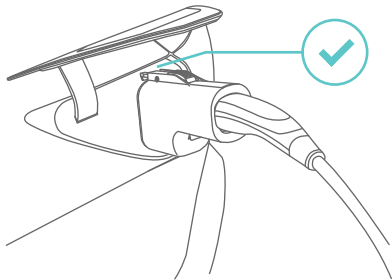
CONNECTING THE ADAPTER

To initiate a session through your vehicle's display or the app, first activate the charging session to unlock the station and then proceed to the steps below.

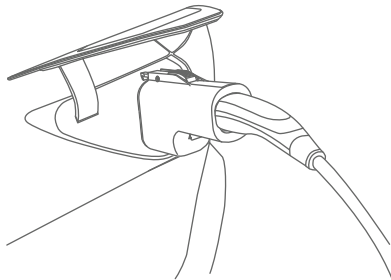
1. Press the NACS unlock button on the underside of the adapter and insert the NACS charger connector until it clicks into place. Ensure the latch is secure.
2. Plug the adapter into your vehicle's CCS1 inlet. Verify that the latch is secure.



3. Once securely connected to the vehicle, the adapter's interlock pin will engage, preventing removal of the charger connector until the session is complete.

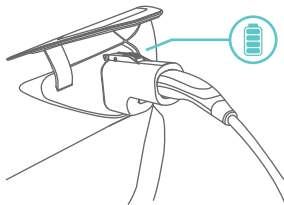


4. Allow a brief pause for the vehicle and charger to establish communication. Check your vehicle's display to confirm that charging has started.

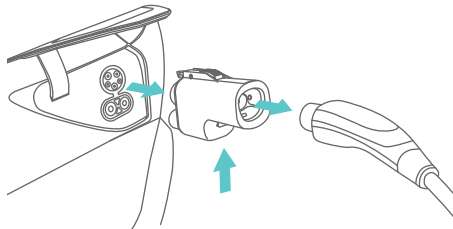


DISCONNECTING THE ADAPTER

1. When charging is complete, press the CCS latch on top of the adapter and remove it from the vehicle.



2. Press the NACS unlock button on the underside of the adapter and disconnect the NACS charger connector.



3. Store the adapter in a dry, clean, and secure location to protect it from debris and damage.

TROUBLESHOOTING

If the vehicle fails to initiate charging, please consider the following steps:

1. Ensure the DC fast charger supports CCS1 vehicles.
2. Check for firm connections at both the NACS and CCS1 ends of the adapter.
3. Safely unplug following the user manual procedure, then begin the connection process again.
4. Verify the charging status on the NACS DC fast charger and the electric vehicle display.
5. If issues persist, please contact **contact@ev-lectron.com**

FREQUENTLY ASKED QUESTIONS

Q: Where can I find a list of automakers that use the Tesla North American Charging Standard (NACS)?

A: Tesla provides a list of supported and upcoming automakers at tesla.com/NACS

Q: Which Supercharger sites are compatible with my vehicle?

A: Add your vehicle details to the Tesla app or use Tesla's interactive map at tesla.com/NACS to see compatible sites.

Q: What can I do if excessively warm weather causes charging faults?

A: Let the charger and adapter cool down for about 30 minutes before retrying. This is a built-in safety feature.

Q: Can I use the Vortex Plus at any Tesla Supercharger?

A: The Vortex Plus is compatible with V3 and V4 Tesla Superchargers. It may not function at older Superchargers unless updated by Tesla. Use the Tesla app or map at tesla.com/NACS to confirm site compatibility.

Q: How many Supercharger ports will be accessible with the Vortex Plus?

A: Over 23,500 Supercharger stalls support NACS. Check the Tesla app or map at tesla.com/NACS for compatible locations.

Q: How do I activate a Tesla Supercharger if plug-and-charge isn't working?

A: Use the Charge Assist app on your vehicle's onboard settings to manually start charging.

Q: What should I do if the Supercharger cord is too short to reach my EV?

A: End-row chargers offer more space. If needed, occupy two spots and charge during off-peak hours when more chargers are available.

**Q: Is the Vortex Plus UL certified?
Will it be certified by Tesla
or OEMs?**

A: The Vortex Plus is UL2252 compliant. While we engage with automakers and labs like UL and ETL, Tesla does not currently guarantee third-party adapter compatibility. Contact Tesla for the latest information.

**Q: Can I use the Vortex Plus
in Canada?**

A: Yes, you can use the Vortex Plus in the United States and Canada.

**Q: What charging output can I expect
with the Vortex Plus?**

A: Tesla Superchargers deliver DC power directly to the battery via the adapter. The Vortex Plus is rated for 500A and 1,000V.

**Q: Does Tesla guarantee compatibility
with the Vortex Plus?**

A: We actively engage with most OEMs and automakers to ensure the compatibility and reliability of the Vortex Plus. Tesla does not guarantee third-party adapter compatibility. For the latest information, please contact Tesla directly.

**Q: What safety features does the
Vortex Plus have?**

A: The Vortex Plus includes locking mechanisms on both the NACS and CCS sides to prevent accidental disconnection.

**Q: Can I use the Vortex Plus with
Level 2 Tesla Chargers or Mobile
Connectors?**

A: No, the Lectron Vortex Plus is a DC adapter designed exclusively for safe use with Superchargers only. To charge your EV at Level 2 Tesla Chargers, we recommend our Tesla to J1772 adapter. This adapter is compatible with Tesla High Powered Wall Connectors, Destination Chargers of all generations, and Mobile Connectors.

**Q: Will I be able to use the Vortex
Plug to access level 2 charging
at Tesla Destination Chargers
or Mobile Connectors?**

A: No, the Vortex Plus is designed for Superchargers only. For Level 1 or Level 2 charging, use the Lectron Tesla to J1772 adapter, compatible with Tesla Wall Connectors, Destination Chargers, and Mobile Connectors.

SPECIFICATIONS

Rated current:	500A DC
Rated input / output:	1,000V DC
Weatherproof rating:	IP67
Operating temp:	-22°F - 122°F
Storage temp:	-40°F to 185°F
Connector:	CCS1
Inlet:	NACS
Weight:	2 lbs
Materials:	PC/PA66/Copper

Disclaimer: The Vortex Plus NACS to CCS adapter is exclusively intended for CCS1-enabled electric vehicles using the North American Charging Standard (NACS) to access NACS DC fast chargers.

GET MORE SUPPORT

Need assistance?

For maintenance, servicing, or replacements,
please contact our support team by scanning the QR code
or emailing us at **contact@ev-lectron.com**



www.ev-lectron.com

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