

## TurboEVC™ 120kW

Ultra-Fast DC Electric Vehicle Charger



### Key Features

- Ultra-fast DC charging units with IP55 protection and IK10 vandal-proof casing.
- Multi-standard: CCS1 & CHAdeMO.
- Network or standalone operation.
- 7" LCD screen with user-friendly interface.
- Secure RFID or mobile app authentication that allows easy access for EV drivers.
- Supports smart charging and load balancing.
- OCPP 1.6 JSON compliant

### Electrical

- 480VAC Three Phase; 50Hz/60Hz.
- 120kW maximum output power (DC).
- PF: >0.99 (APFC)
- Efficiency ≥ 94%
- Operating Temperature: -30°C to 50°C (-22°F to +122°F).

### Mounting

- Pedestal mount only. Consult factory for more information on installation.

### Construction

- CHAdeMO compliant high-power charger connectors standard.
- Dimensions: 32 in. x 26 in. x 75 in.
- Net Weight: ≤926 lbs.
- Cable Length: 16 ft. standard; 23 ft. optional.
- Cable management system provides the appropriate reach while keeping cables off the ground in between use.

### Communication

- Interface: RFID supports ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™ Lite-S, OCPP, 2D barcode, APP, & mobile payment.
- External: Ethernet, 4G, and Wi-Fi
- Optional OCPP-compliant back-end management software available.<sup>1</sup>

### Warranty

- Backed by National LED's Two-Year Warranty.

### Ordering Information

Series	Generation	kWs	Comms	Mounting	Cables	Connectors
USEV						
3	Level 3 DC Fast Charge	120 120kW	1 Ethernet, WiFi and 4G	2 Pedestal	S Standard 16 ft. L 23 ft.	1 CCS1 and CHAdeMO 2 Dual CCS1

1. OCPP-compliant software for managing EV charging stations sold separately. For more information, please consult factory.

Project	Date
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Catalog Number	Type
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### Product Overview

Drive more traffic to your property with the next level of charging! With TurboEVC, you'll have industry-leading DC fast charging technology that meets the needs of electric vehicles today and is ready to satisfy more demand tomorrow.

The new TurboEVC Level 3 DC fast chargers facilitate convenient charging of all electric vehicle models, including those with high voltage battery systems. They are ideal for applications needing to serve the public and fleets, including cars, buses, and trucks. TurboEVC is perfect for locations looking to add the benefit of electric vehicle charging, including retailers, fueling stations, convenience stores, and logistics companies.

### Product Applications

- Commercial EV Fleet
- Business Campus
- Hospitality/Public Venues
- Healthcare Facilities
- Industrial Facilities
- Manufacturing Facilities
- Educational Facilities
- Auto Dealerships
- Gas Stations
- Multi-Family Dwellings
- Municipalities
- Commercial Facilities

### Product Certifications/Approvals

- ETL Listed.
- Suitable for Wet Locations.
- IP55 Rated Enclosure.
- RoHS Compliant.



Example: USEV-3-120-1-2-S-1

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### Product Specifications

<b>AC INPUT</b>	Input Rating	3Φ 480VAC (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye Configuration), TN/TT
	Max. Input Current	DC System: 3Φ180A (Typ. ±1%) AC Module (19.2kW): 1Φ80A (Typ. ±1%)
	Frequency	50Hz/60Hz
	Power Factor	>0.99 @ full load
	Efficiency	≥ 94%
<b>DC Output</b>	Output Voltage Range	CCS1:150~950Vdc CHAdeMO:150~500Vdc AC: 1Φ_240A (+10%, -15%)
	Max. Output Current	CCS1:126A@950Vdc CHAdeMO/CCS1:120A@500Vdc AC (19.2kW): 1Φ80A@240Vac
	Max. Output Power	DC System: 120kW+ AC module: Single Phase 19.2kW
	Voltage Accuracy	±2%
	Current Accuracy	±2%
<b>USER INTERFACE &amp; CONTROL</b>	Display	7" LCD Screen
	Push Buttons	Operation Buttons / Emergency Stop Button
	User Authentication	RFID: Support ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™ Lite-S (RCS966), OCPP, 2D Barcode, APP, Mobile Payment
<b>COMMUNICATION</b>	External	Ethernet / 4G / WiFi
	Internal	CAN bus/RS485
<b>ENVIRONMENTAL</b>	Operating Temperature	-30°C to 50°C (-22°F to +122°F) Power Derating From 50°C and Above
	Altitude	≤ 6562 ft.
	IP Level	IP55/IK10 (Non Including Screen and RFID Module)
	Cooling Method	Fan Cooling
<b>MECHANICAL</b>	Dimensions (WxDxH)	32 in. x 26 in. x 75 in. ±1%
	Weight	≤926 lbs. ±1%
	Cable Length	16 ft. standard; 23 ft. optional
<b>PROTECTION</b>	Input Side	OVP, OCP, OPP, OTP, UVP, RCD, SPD
	Output Side	OCP, OVP, UVP, OTP, IMD
<b>REGULATION</b>	Certificate	UL2202 , UL2231-1/-2
	Safety	NRTL - ETL
	Charging Interface	CCS1, CHAdeMO V1.2