

Intelligently Electrify Your School Bus Fleet

WITH NUVVE, ELECTRIFYING YOUR FLEET IS
AFFORDABLE AND ACHIEVABLE



Turnkey Solutions

BRING CLEANER RIDES TO YOUR STUDENTS TODAY

We know that switching from diesel to electric is expensive and can feel complicated. That's why Nuvve offers a turnkey package and flexible financing options plus expert guidance through the process. We'll create a solution perfectly suited to your needs.

WE OFFER:

- ✓ **Competitive financing** options to help you make the switch now.
- ✓ A **turnkey solution** with high-powered charging stations including installation and maintenance, Nuvve's proprietary vehicle-to-grid (V2G) software, and a customer dashboard to manage your fleet.
- ✓ **Peace of mind** with guaranteed charge levels for your buses' daily driving duties.

FEATURES:



INTELLIGENT SOFTWARE

A secure, cloud-based, intelligent V2G platform that works behind the scenes for your fleet charging needs.



HIGH-POWERED CHARGING

Our powerful charging station options make sure your buses are ready to go when needed.



FLEET MANAGEMENT

Drivers and fleet managers can remotely monitor and manage the charging of their buses in real-time via mobile or browser-based applications.*



BATTERY HEALTH & WARRANTY

Nuvve's technology ensures charging and discharging occurs within battery warranty limits.

GET STARTED WITH NUVVE TODAY

CONTACT US AT SALES@NUVVE.COM

NUVVE.COM | HEADQUARTERED IN SAN DIEGO, CALIFORNIA

Nuvve Software

THE MOST INTELLIGENT WAY TO CHARGE YOUR FLEET

Nuvve's Grid Integrated Vehicle (GIVe™) technology is a cloud-based platform that enables intelligent, unidirectional or bidirectional, vehicle-to-grid (V2G) charging. Our advanced features prioritize having the right amount of charge for each day while helping save you money.

FEATURES FOR DC HEAVY-DUTY FAST CHARGERS

INTELLIGENT CHARGING

Allows your fleet to charge when rates are at their lowest and allows for charge rates to be set to optimize battery health.

FLEET MANAGEMENT

Set charge levels and enable on-demand charging remotely.* Available as a mobile app* and web interface.

PERFORMANCE INSIGHTS

Understand your fleet's usage and charging and get live energy delivery performance reporting.

SECURITY

End-to-end encryption of all data using industry security standards.

BIDIRECTIONAL CHARGING

Allows your fleet's batteries to store and discharge energy through precise, second-by-second control. Having enough charge for a day's duties is always prioritized.

VEHICLE-TO-GRID (V2G)**

Allows energy from multiple bus batteries to be combined to form a virtual power plant (VPP) to perform services that stabilize the grid and/or sell energy back to the grid to earn revenue.



VIRTUAL POWER PLANT (VPP) CREATED BY NUVVE'S V2G SOFTWARE

** Requires permits from local utility companies

FEATURES FOR AC LEVEL 2 CHARGERS

✓ INTELLIGENT CHARGING

Allows your fleet to charge when rates are at their lowest and allows for charge rates to be set to optimize battery health.

✓ FLEET MANAGEMENT

Set charge levels and enable on-demand charging remotely.* Available as a mobile app* and web interface.

✓ PERFORMANCE INSIGHTS

Understand your fleet's usage and charging and get live energy delivery performance reporting.

✓ SECURITY

End-to-end encryption of all data using industry security standards.



DC Fast Charging Station Options

NUVVE DC HEAVY-DUTY FAST CHARGING STATIONS

60KW OR 125KW V2G BIDIRECTIONAL DC CHARGERS

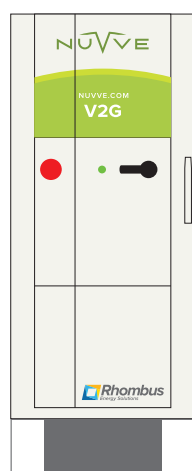
The Nuvve DC Heavy-Duty Charging Station (RES-HD60-V2G) and Nuvve DC Rapid HD Charging Station (RES-HD125-V2G) are designed specifically for vehicle-to-grid (V2G) applications and are the ideal solution for the rapid, smart charging of heavy-duty fleet vehicles such as electric school buses.

SOFTWARE

Our DC charging stations are fully controllable through Nuvve's fleet management system and our V2G platform enables unidirectional charging of any vehicle or bidirectional V2G charging and grid-connected building load management services when connected to a V2G-compatible vehicle.

HARDWARE

PCS PLUS DISPENSER



PCS

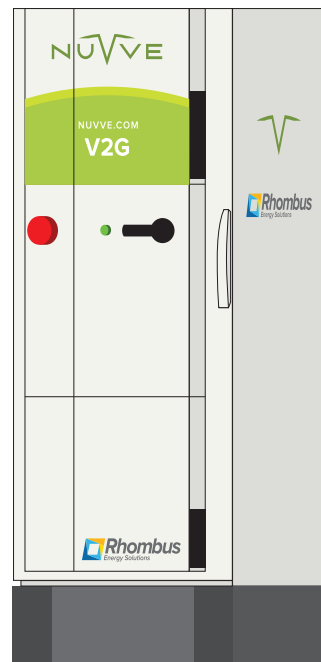


Dispenser



TECHNICAL SPECS RES-HD60-V2G

AC SPECIFICATIONS (POWER)	
Bidirectional Capable	Yes
Rated Power	60 kW/kVA
Utility Grid Voltage	480 Vac-3P
Max Rated Utility Current	79 Aac @ 480VAC (60 Hz)
Wiring	3 phase WYE (L1, L2, L3, Neutral, Ground)
Utility Grid Frequency (Hz)	60
Power Factor Range	+/- 0.5
THD for Linear Loads	<5%
Charging Efficiency	>95%
Grid Isolation	Galvanic, Integrated
DC OUTPUT	
Maximum Power	60 kW
Voltage Operating Range	270Vdc to 870Vdc
Maximum Current	+/- 200A (charging cable limited)
Connector and Cable	CCS1, up to 8m (25 ft)
ENERGY METERING	
AC Energy Meter	+/- 1% from 10% to full scale
MECHANICAL	
PCS Dimensions	800mm x 622mm x 2083mm (31.5"W x 24.5"D x 82"H)
PCS Weight	748 kg (1600 lbs)
Dispenser Dimensions	559mm x 432mm x 1905 mm (22"W x 17"D x 75"H)
Dispenser Weight	68 kg (150 lbs) (configuration dependent)
ENVIRONMENTAL	
Cooling	Air cooled
Environmental Rating	NEMA 3R
Operating Ambient Temp.	-20°C to 45°C (-4 to 113°F)
Storage Temperature Range	-30°C to 60°C (-22 to 140°F)
Humidity	0 to 95% (non-condensing)
Altitude	De-rated over 2,000m (1.2 miles) above sea level
COMMUNICATION & CONTROL	
Network Interface	Ethernet, WiFi, 3G, 4G, LTE
EV Communication	DIN 70121, SAE J1772, ISO 15118-2, ISO 15118-20, & custom implementations
Cloud Management	OCPP 1.6J compliant & Nuvve proprietary protocol
CERTIFICATION, SAFETY, COMPLIANCE	
Certifications	UL1741-SA, UL 2202, UL 2231, IEEE 1547.1 & CSA C22.2 No. 107.1-16



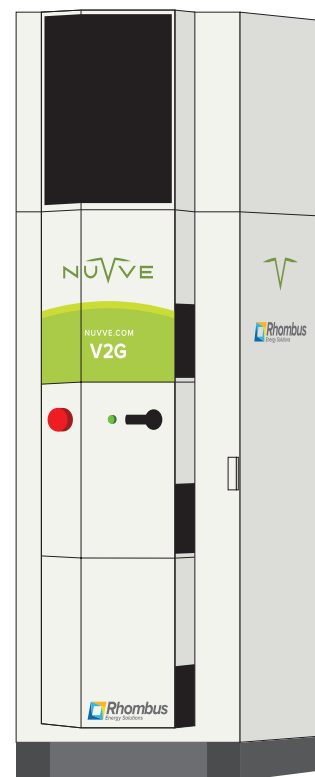
Charging Station



Dispenser

TECHNICAL SPECS RES-HD125-V2G

AC SPECIFICATIONS (POWER)	
Bidirectional Capable	Yes
Rated Power	125 kW/kVA
Utility Grid Voltage	480 Vac-3P
Max Rated Utility Current	+/-160A @ 480VAC (60 Hz)
Wiring	3 phase WYE (L1, L2, L3, Neutral, Ground) or Delta (L1, L2, L3, Ground)
Utility Grid Frequency	60 Hz
Power Factor Range	+/- 0.5
THD for Linear Loads	<5%
Charging Efficiency	>95%
Grid Isolation	Galvanic, Integrated
DC OUTPUT	
Maximum Power	125 kW (625-800Vdc)
Voltage Operating Range	530Vdc to 920Vdc
Maximum Current	+/- 200Adc (charging cable limited)
Connector and Cable	CCSI, up to 8m (25 ft)
ENERGY METERING	
AC Energy Meter	+/- 1%
MECHANICAL	
PCS Dimensions	1000mm x 600mm x 2920mm (39.5"W x 24"D x 115"H)
PCS Weight	975kg (2150 lbs)
Dispenser Dimensions	559mm x 432mm x 1905 mm (22"W x 17"D x 75"H)
Dispenser Weight	68 kg (150 lbs) (configuration dependent)
ENVIRONMENTAL	
Cooling	Air + integrated liquid heat exchanger
Environmental Rating	NEMA 3R
Operating Ambient Temp.	-20°C to 45°C (-4 to 113°F)
Storage Temperature Range	-30°C to 60°C (-22 to 140°F)
Humidity	0 to 95% (non-condensing)
Altitude	De-rated over 2,000m (1.2 miles) above sea level
COMMUNICATION & CONTROL	
Network Interface	Ethernet, WiFi, 3G, 4G, LTE
EV Communication	DIN 70121, SAE J1772 , ISO 15118-2, ISO 15118-20 & custom implementations
Cloud Management	OCPP 1.6J compliant & Nuvve proprietary protocol
CERTIFICATION, SAFETY, COMPLIANCE	
Certifications	UL1741-SA, UL 2202, UL 2231, IEEE 1547.1 & CSA C22.2 No. 107.1-16



Charging Station



Dispenser

AC Level 2 Charging Station

THE NUVVE POWERPORT

The Nuvve PowerPort is a Level 2 AC charging station that delivers up to 19.2kW of power in a compact size package (wall mount or with pedestal). Perfect for school buses and other heavy-duty vehicles, it's one of the few 80 amp products on the market certified to UL safety standards. The Nuvve PowerPort is ENERGY STAR certified.

SOFTWARE

The PowerPort is fully controllable through Nuvve's software platform for unidirectional application. Remotely monitor your fleet's charging, configure your fleet's charging needs through trip schedules, and charge on-demand when needed. Nuvve's software also charges your fleet when electricity rates are low so you save utility bill costs.

HARDWARE

PEDESTAL OPTIONS

SINGLE MOUNT



DUAL MOUNT



POWERPORT TECHNICAL SPECIFICATIONS

MODEL #	EVSE-B-P1-H1
Phase	Single
No. Connectors	1
Connector Type	J1772/IEC 62196 Type 1
Cable Management	Cordset Hanger
Dimensions	Inches: 21.8 H x 10.4 W x 4.1 D Millimeters: 554 H x 264 W x 105 D
Weight*	29 lbs. / 13.15 kg
Cord Length	20 ft./6.1m standard; 24 ft./7.3m option

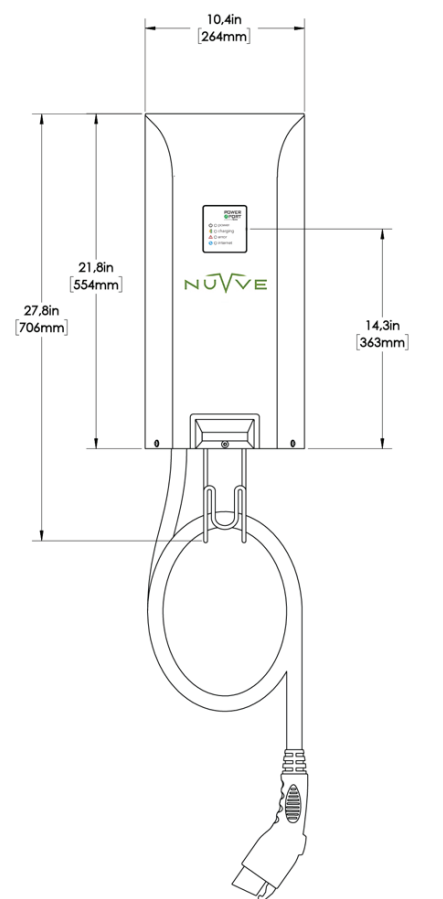
* Weight of enclosure + 20'(6.1m) / 80A-rated charging cable

POWER REQUIREMENTS	EVSE-B-P1-H1
Current Capacity	Up to 80A
Voltage Compatibility	100 to 240 VAC
Maximum Output*	100 to 240 VAC
Station Standby Usage	3.11W
Frequency	50Hz/60Hz

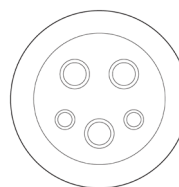
* Capacity at maximum compatible voltage

CODES & STANDARDS	
North American Regulatory Compliance	Certified: CSA 22.2, CSA 94.2, CSA 280-16, CSA 281.1, CSA 281.2, UL 50E, UL991, UL 1998, UL 2231-1, UL 2231-2, UL 2594 Compatible/Compliant: (FCC Part 15, Class B), NEC 625, SAE J1772, SAE J3068
International Regulatory Compliance	CE, EN 61000-6-1, EN 61000-6-3, EN 61851-1:2017, EN 60529
Enclosure Rating	NEMA 3R, IP54, IK10
Metering	Utility grade
Communication Protocols	PWM
Operating Temperature	-30°C to 50°C
Relative Humidity	5% to 95%
Air Pressure	86kPa to 106kPa

NETWORKING	
Ethernet Connection	RJ 45 (Standard)
LAN	2.4 GHz Wifi option
WAN	3G/LTE, 4G/60Hz option



EVSE-B-P1-H1 CONNECTOR



J1772 / IEC 62196 Type 1



All product specifications as of August 2021 and are subject to change.
Please contact Nuvve for updated information.

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Save with Sourcwell

NUVVE IS AN OFFICIAL SOURCEWELL CONTRACTED SUPPLIER

Sourcwell saves you time and money by combining the buying power of more than 50,000 government, education, and nonprofit organizations. They have hundreds of competitively solicited cooperative contracts ready for use including electric vehicle equipment so you don't have to go through a long bidding process with multiple vendors.

Nuvve was selected out of a competitive field of other EV charging companies as an official Sourcwell supplier. That means Nuvve was recognized as meeting strict quality standards and having competitive pricing.

NUVVE SOURCEWELL CONTRACT:

NUMBER:

#042221-NUV

CATEGORY:

Electric Vehicle Charging Stations



TO APPLY:

- ✓ If you're not already a Sourcwell member, you can join for free with no obligation on [Sourcwell's website](#).
- ✓ Once you're a member, contact Nuvve at evse@nuvve.com and ask for a Sourcwell contract quote.
- ✓ Once you receive your quote, you can issue a purchase order to Nuvve.

LCFS Credits

ELECTRIFY YOUR FLEET FOR LESS WITH NUVVE'S LCFS PROGRAM

WHAT IS LOW CARBON FUEL STANDARD (LCFS)?

The Low Carbon Fuel Standard (LCFS) is a program created by the California Air Resources Board (ARB). The goal of the program is to lower the carbon intensity of transportation fuels. Many fuels (biofuels, CNG, electricity) are eligible.

If EV charging equipment and energy consumption are registered, tracked, and certified, the credits generated can be sold on an open market.

Nuvve can monetize the credits as a registered aggregator with ARB and can perform the administrative and transaction requirements.

GIVE US THE GREEN LIGHT AND WE'LL TAKE CARE OF THE REST

By taking advantage of Nuvve's LCFS program, you can save even more on your electric bus fleet.

HOW IT WORKS:

- Nuvve will perform an analysis for your fleet to understand what credits you may qualify for.
- Nuvve will register the fuel supply equipment (FSE, i.e. charging station) with ARB.
- Nuvve will take care of the required reporting and documentation, including quarterly administrative filings.
- Nuvve covers all broker fees for credit trading.
- Nuvve monetizes the LCFS credits generated by the program.
- You save money on your electric fleet operation.

SAMPLE CREDITS CALCULATOR			
# Miles Driven / Year	x 1.5kWh	LCFS Value* (kWh)	Potential Revenue (per year)
EV 1: 12,000 miles	x1.5	\$0.20	\$3,600
EV 2: 10,000 miles	x1.5	\$0.20	\$3,000
EV 3: 7,500 miles	x1.5	\$0.20	\$2,250
POTENTIAL TOTAL ANNUAL REVENUE			\$8,850

*LCFS credit values are subject to change; sample based on LCFS/kWh trading value as of March 2022; 1.5 is the kWh/mile for efficiency rating of an energy saving measure (ESM)


Contact Us

GET STARTED WITH NUVVE TODAY!

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Custom, Turnkey Electrification Solutions

EVERYTHING YOU NEED TO ELECTRIFY YOUR FLEET FOR A FLAT, MONTHLY FEE

Levo Mobility can put together a flexible, fully financed solution according to your fleet electrification needs.

YOU'LL ENJOY:

- Expert guidance through your fleet electrification process.
- No upfront costs and fixed monthly payments over the life of your contract.
- Optimized charging that saves on your electric fleet operating costs.
- A sustainable electric fleet solution that helps stabilize the grid and supports the integration of renewable energy sources

LEVO'S TURNKEY OFFERS CAN BE CUSTOMIZED TO INCLUDE:

- 100% financing with zero upfront costs.
- Site planning, permitting, and construction services.
- Procurement and deployment of EVs and charging stations.
- Maintenance of EVs and charging stations.
- Nuvve V2G GIVE™ software and utility interconnection.
- Energy management.

To get started, visit levomobility.com.

