

# Nuvve DC Heavy Duty Charging Station

## V2G | 60KW | DC CCS | HEAVY-DUTY

The Nuvve DC Heavy-Duty Charging Station (RES-HD60-V2G) is designed specifically for vehicle-to-grid (V2G) applications and is the ideal solution for the rapid, smart charging of heavy-duty fleet vehicles such as electric school buses. The RES-HD60-V2G is fully controllable through Nuvve's fleet management app and our V2G platform (GIVe™) enables unidirectional charging of any vehicle or bidirectional V2G charging and grid-connected building load management services when connected to a V2G-compatible vehicle.

### KEY FEATURES

✓ **CCS1 CONNECTOR (COMBO)**

✓ **UL-1741 SA**

✓ **IEEE 1547**

✓ **95% EFFICIENCY**



#### POWERFUL, RELIABLE CHARGES

The Nuvve DC Heavy-Duty Charging Station (RES-HD60-V2G) features a CCS1 connector that can charge any vehicle with combo connector and discharge V2G-compatible vehicles with Nuvve software integration. It is designed to meet all utility safety standards in North America to enable interconnection of vehicles as a distributed energy resource.



#### YOUR FLEET'S CHARGING ACTIVITY AT A GLANCE

Drivers and fleet managers can remotely monitor and configure the charging of their buses via a fleet management app and trigger instant charging if needed.\*

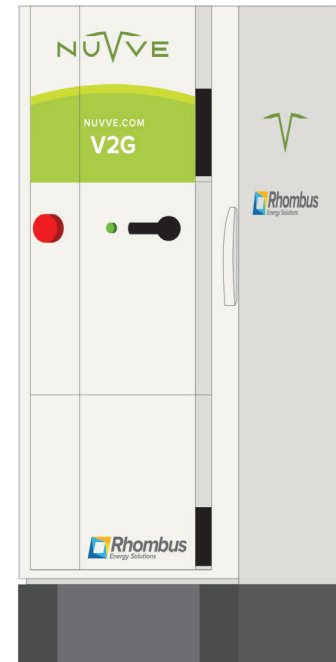


#### INTELLIGENT GRID SERVICES

Nuvve's solution is fully scalable to fit your needs and can perform a variety of grid services including frequency regulation, demand response, demand charge management, and time-of-use rate arbitrage, depending on region and interconnection.

# 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 & Nuve 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

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