

## V2G Smart Charging | 60kW | CCS1 Connector

Nuvve's DC charging station (Model – TP-60DC-V2G-H1-C) is designed specifically for vehicle-to-grid (V2G) applications and is ideal for smart charging light, medium and heavy-duty electric vehicle fleets. This charger is a perfect fit for all electric school bus applications and comparative commercial fleets.

TP-60DC-V2G-H1-C is fully controlled by Nuvve's energy management and aggregation platform, GIVe™, and can be monitored using our fleet management application, FLEETBOX™. Nuvve's software applications enable smart charging and discharging (V2G) to provide energy management and grid services when connected to a V2G compatible EV, minimizing Total Cost of Ownership (TCO) while prioritizing your fleet mobility needs.

### KEY FEATURES



- 60kW V2G
- Smart Charging
- CCS1 Connector
- California ADA compliant
- Energy Star
- Wi-Fi, 4G/LTE, Ethernet
- OTA UPDATES
- OCPP 1.6J, 2.0.1
- UL-2202
- UL1741-SA

#### ALL-IN-ONE DC CHARGER



The Nuvve DC 60kW V2G charging station, featuring a CCS1 connector, is an all-in-one unit that eliminates the need for installing satellite power cabinets, saving space and construction cost. It is designed and built to meet all applicable safety standards in North America.

#### YOUR FLEET'S CHARGING/V2G ACTIVITY AT A GLANCE



Use the Nuvve FLEETBOX™ mobile app or web portal to remotely monitor charging, discharging, schedule trips, and trigger emergency charging.

#### WIDE CONNECTIVITY OPTIONS AND DATA AT YOUR DISPOSAL



Connect the charger to the internet using Cellular, Wi-Fi or Ethernet and access charger data in real time and over-the-air updates. Customize reports to view your energy usage over time.

#### SAVE MONEY AND HELP THE GRID



Nuvve FLEETBOX™, powered by Nuvve's proprietary GIVe™ platform, allows you to optimize your electricity bills by managing both charging and V2G services. Optimizing for time of use, leveraging off-peak hours and making sure your mobility needs are met.



## Technical Specs

AC SPECIFICATIONS (POWER)	
Bidirectional Capable	Yes
Rated Power	60 kW
Utility Grid Voltage	480 Vac-3Phase
Max Rated Utility Current	100A Breaker or 80A FLA
Wiring	3Phase WYE (L1, L2, L3, Neutral, Ground)
Utility Grid Frequency (Hz)	50/60 Hz
Power Factor Range	0.98 @50%~100% full load (Charging), 0.8 Leading ~ 0.8 Lagging (Discharging)
THD for Linear Loads	<5%
Charging Efficiency	≥94% at nominal output power
Short Circuit Current	20 kA
DC OUTPUT	
Maximum Power	60kW
Voltage Operating Range	150-1000VDC (Charging), 300-1000VDC (Discharging)
Maximum Current	200A DC Output
Connector and Cable	1 CCS1 connector, up to 7.62m (25ft), Cable Retractor Included
MECHANICAL	
Dimensions	35.22" x 29.51" x 73.44"
Weight	310kg (683lbs)
ENVIRONMENTAL	
Cooling	Air Cooling Fans
Environmental Rating	NEMA 3S (IP54), IK10
Operating Ambient Temperature	-22°F to 131°F (-30°C to 55°C)
Storage Ambient Temperature	-22°F to 140°F (-30°C to 60°C)
Working    Storage Humidity	95% RH    ≤ 99% RH (Non-condensing)
Altitude	UP to 6500ft (2000m or 1.2mi) above sea level
COMMUNICATION & CONTROL	
Network Interface	Ethernet, 4G/LTE, WiFi
Communication & Protocol	DIN 70121, SAE J1772, ISO 15118-2, ISO 15118-20, OCPP 1.6J, OCPP 2.0.1
Authentication	AutoCharge, RFID
CERTIFICATION, SAFETY, & COMPLIANCE	
Certifications	UL-2202, UL1741-SA, IEEE 1547, CSA C22.2

