

V2G Smart Charging | 40kW | CCS1 Connector

Nuvve's DC charging station (Model – TP-40DC-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-40DC-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



- 40kW 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 40kW 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.





We Make electric Vehicles Greener

NUVVE DC V2G 40kW

TP-40DC-V2G-H1-C

Technical Specs

AC SPECIFICATIONS (POWER)	
Bidirectional Capable	Yes
Rated Power	40 kW
Utility Grid Voltage	480 Vac-3Phase
Max Rated Utility Current	70A Breaker or 54A 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	40kW
Voltage Operating Range	150-1000VDC (Charging), 300-1000VDC (Discharging)
Maximum Current	150A 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

