



SIEMENS

Ingenuity for life



MaxxHP Heavy-Duty Fleet Chargers

Plug-In, fast charging solutions

[siemens.ca/emobility](https://www.siemens.ca/emobility)



MaxxHP Heavy-Duty Fleet Chargers

Plug-In, fast charging solutions

The implementation and growth of the eTruck and eBus market is happening at a rapid pace. This critical public infrastructure change has brought about the need for a fast, safe, and user-friendly charging solution.

Siemens DC heavy-duty fleet chargers supply the needed open communications, flexible charging equipment, Internet of Things (IoT) cloud monitoring, and energy optimization services. These are all part of our PlugtoGrid™ transportation electrification offering.



Main advantages:

- A fast, high-efficiency charging solution at 150 kW
- DC charging with CCS1 compatible plug
- Battery charging status and power delivered are displayed
- Built in North America
- Easy integration to any Open Charge Point Protocol (OCPP) compatible IoT platforms
- Supports up to four remote dispensers using sequential charging with one main power cabinet
- Integrated cellular modem for remote connectivity

Fleet Charging Options



Plug in charger



Indoor pantograph



Outside pantograph

MaxxHP heavy-duty fleet charger design

Built for flexible installation and easy maintenance

Modular architecture and versatility

A variety of configurations are available when using the NEMA 3R main power cabinet and remote dispenser configurations with advanced high speed fault protection.

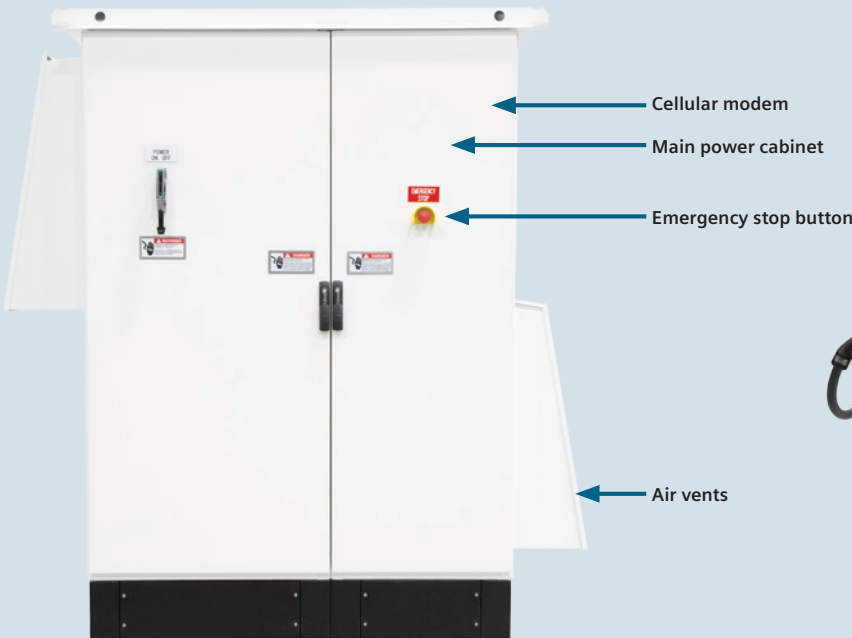
Smart, secure, and safe

Integrated technology will control charging of up to four vehicles in sequential fashion, reducing the need for additional electrical infrastructure. System administration is password protected and follows the strict DIN 70121 standard for charging.

Remote access and supervision

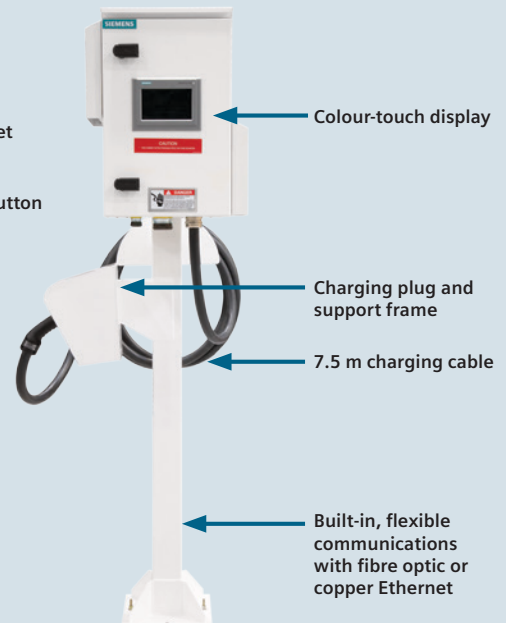
Industry standard OCPP communications allow integration with any IoT system anywhere in the world.

MaxxHP charger main power cabinet



cabinet size with air vents: 198 cm × 125 cm × 208 cm
cabinet size without air vents: 140 cm × 125 cm × 200 cm

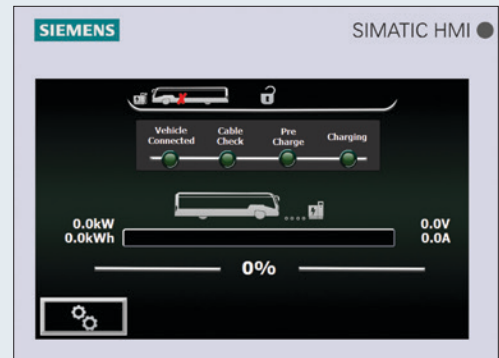
Remote dispenser – wall or pedestal mount designs





Sample operator displays

The remote dispenser colour-touch display allows easy monitoring and control of the charging process. Displays will provide charging status, energy consumption, alarms, charger info, emergency stop, and more.



Charger HMI Main Menu



Charger HMI Settings



Charger HMI Advanced Settings

MaxxHP heavy-duty fleet charger details

Technical Specifications

160 kW

Nominal Input

Voltage	3 phases + PE, 480 Vac \pm 10%
Maximum AC current per phase	220 A
Frequency	60 Hz
Power factor	>0.99
Total harmonic distortion	<4% at 200 A

DC Output (with advanced fault protection)

Maximum DC Current	200 A
Voltage range	200 Vdc to 850 Vdc
Ripple	Less than 1% of the nominal voltage
Efficiency	>95% (@ rated power)

Environmental Conditions

Operation temperature	-25°C to +55°C of environment temperature
Storage temperature	-40°C to +70°C
Humidity	5–95% of relative humidity without condensation
Place of installation	Indoor/Outdoor
Altitude	0–2,000 m in operation

Mechanical Specifications

Protection	NEMA 3R
Overall dimensions (W x D x H)	cabinet size with air vents [cm]: 198 x 125 x 208 cabinet size without air vents [cm]: 140 x 125 x 200
Approx. weight	2,400 lbs

General Specifications

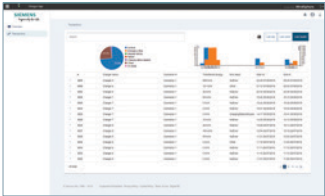
Noise level	<55 dB
Automation system	Siemens SIMATIC S7-1200
Local Interface (MMI)	Siemens SIPLUS HMI TP700
Remote maintenance	Web Server via IP
Remote Access Cellular 4G/LTE	OCPP 1.6 (JSON)
Charging standard	EN61851-1/23/24, DIN 70121
Connectors	CCS1 (standard 7.5 m length)
Dispensers	Up to four dispensers per charging station
Dispenser communications	Single mode fibre optic (up to 200 m) or copper CAT6 (up to 100 m)

*UL UL2231 / UL2202 Certification (pending).

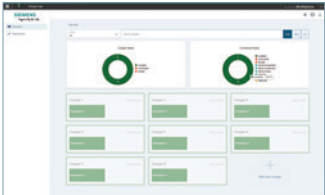
Depot charger application with Siemens SaaS



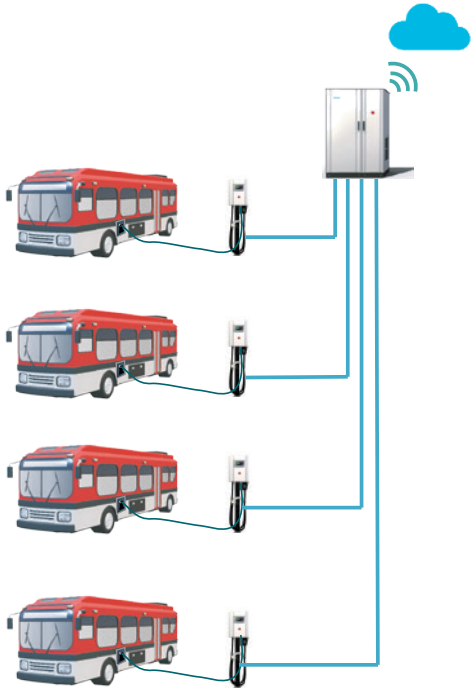
Smart charging dashboard







Transaction dashboard



Overview dashboard



Siemens SaaS Features

- 
 • Remote support and diagnostics
- 
 • Charger notifications via SMS/email
- 
 • Customer monitoring / reporting on any web browser
- 
 • Energy optimization

Transit depot solutions

Siemens pantograph designs and battery storage starting at 500 kWh provide flexibility in designing your transit depot solutions.



Street level pantograph



Ceiling mount pantograph



Battery energy storage

Published by Siemens Canada Limited
Siemens Canada Limited
1577 North Service Road East
Oakville, ON L6H 0H6

Customer Interaction Centre:
cic.ca@siemens.com
1-888-303-3353

Printed in Canada
All Rights Reserved
© 2020, Siemens Canada Limited

The technical data presented in this document is based on an actual case or on as-designed parameters and, therefore, should not be relied upon for any specific application and does not constitute a performance guarantee for any projects. Actual results are dependent on variable conditions. Accordingly, Siemens does not make representations, warranties, or assurances as to the accuracy, currency or completeness of the content contained herein. If requested, we will provide specific technical data or specifications with respect to any customer's particular applications. Our company is constantly involved in engineering and development. For that reason, we reserve the right to modify, at any time, the technology and product specifications contained herein.

siemens.ca/emobility