SIEMENS
Ingenuity for life

VersiCharge 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 that 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 USA - Buy America compliant
- 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

usa.siemens.com/versicharge

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.
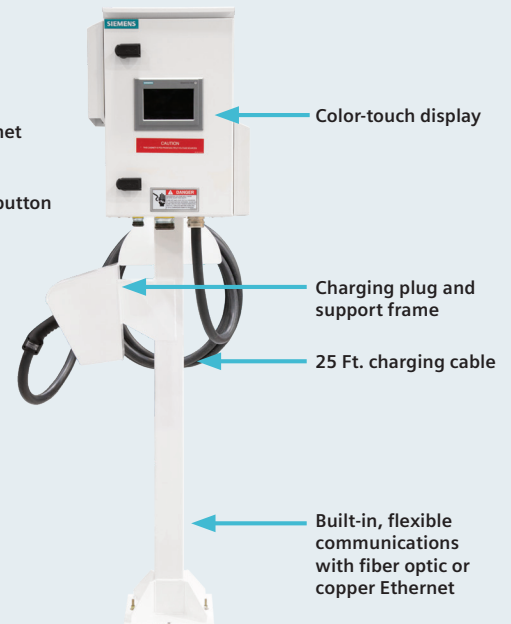
Remote access and supervision

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

MaxxHP charger main power cabinet

Cellular modem

Main power cabinet

Emergency stop button
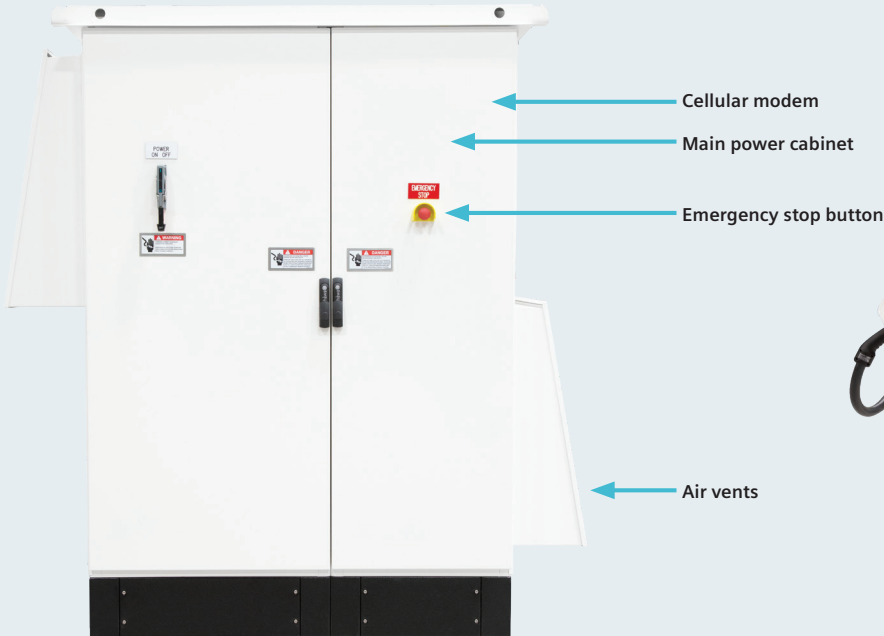
Air vents

cabinet size with air vents: 78" X 49" X 82"
cabinet size without air vents: 55" X 49" X 79"

Remote dispenser - wall or pedestal mount designs

Color-touch display

Charging plug and support frame

25 Ft. charging cable

Built-in, flexible communications with fiber optic or copper Ethernet

Sample operator displays

The remote dispenser color-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.
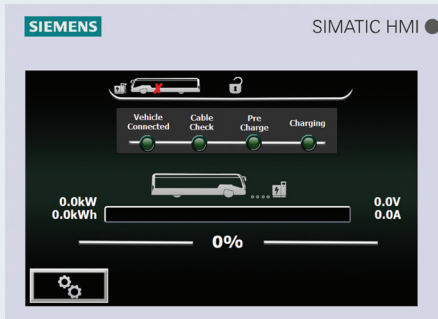
Charger HMI Main

Charger HMI Settings

Charger HMI Advanced Settings

MaxxHP heavy-duty fleet charger details

Technical Specifications

|	160kW
Nominal Input	
Voltage	3 phases + PE,480 Vac ±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	
Ambient Temperature	-25°C to +50°C – start from cold -35°C to -25°C – equipment has been continuously running
Operation temperature	-13°F to + 131°F 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 – 6,562 ft in operation
Mechanical Specifications	
Protection	IP54 / NEMA 3R
Overall dimensions W x D x H (inches)	cabinet size with air vents: 78" X 49" X 82" cabinet size without air vents: 55" X 49" X 79"
Approx. weight	5,291 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 25 ft. length)
Dispensers	Up to four dispensers per charging station
Dispenser communications	Single mode Fiber Optic (up to 656 ft.) or Copper CAT6 (up to 328 ft.)

*UL UL2231 / UL2202 Certification (pending).

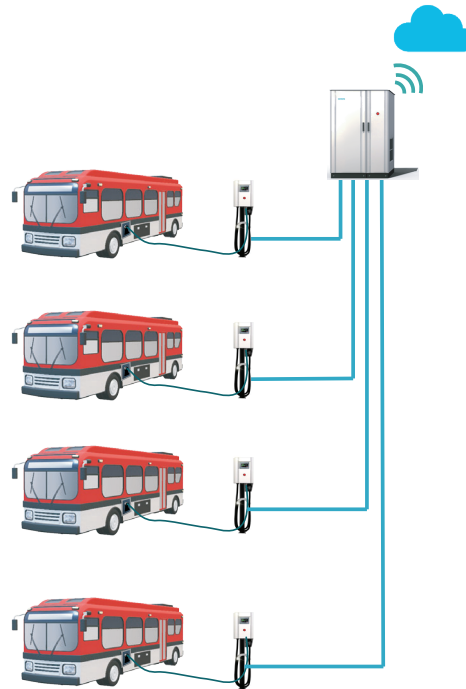# Depot charger application with Siemens SaaS
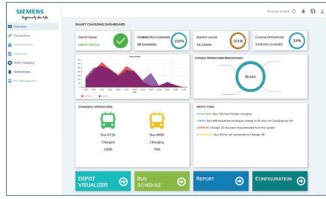
Smart charging dashboard
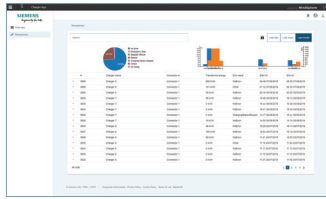
Transaction dashboard
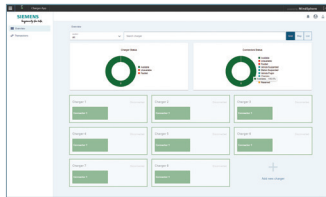
Overview dashboard

Siemens SaaS Features

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

Transit depot solutions

Siemens pantograph designs and battery storage starting at 250kWh provide flexibility in designing your transit depot solutions.

Street level pantograph

Ceiling mount pantograph

Battery energy storage