



SIEMENS

Ingenuity for life

VersiCharge Apex™ and VersiCharge Go™ chargers

Pantograph charging solutions

Fleet and sustainability managers are moving at a fast pace to upgrade their aging bus systems to more environmentally friendly eBus solutions, but with this change comes a substantial increase in energy requirements for bus charging.

Siemens pantograph VersiCharge Go™ (street level) and Apex™ (ceiling mount) chargers solve this challenge by providing charging at the most efficient and user friendly location. This fast, safe and secure solution spreads out charging to locations where power is available.

Main advantages:

- A fast, high-efficiency charging solution available in 450 kW and 600 kW
- Proven interoperability with eBus Original Equipment Manufacturers (OEM's)
- Urban (custom colors) or industrial mast designs
- Easy integration to any OCPP compatible backend
- Street level or depot ceiling mounted designs
- Smart opportunity charging with monitoring and reporting available

General specifications

Temperature range: -31F (-35C) to 113F (+45C)	Built in USA - Buy American Compliant
Communications: OCPP 1.6J	OppCharge and SAE J-3105 Compliant
Wi-Fi Communications: ISO 15118	Max output current: 400A/600A/800A
Voltage range: 200VDC to 920VDC	EN 55016-2-1 and 3
kW range: 450 or 600 kW	EN 61000-4-2, 61000-4-3, and 61000-4-4
Equipment certification: UL /CSA field certified	EN 61000-4-5 and 61000-4-6
Protection Class: NEMA 3R	Charging Standard: EN 61851-1/23/24
Safety: IEC 950, UL 1950, EN60950	Cooling Principle: Forced air

Fleet Charging Options



Plug in with remote dispenser charger or Plug in charger



Indoor Pantograph



Outdoor Pantograph

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VersiCharge Apex - Pantograph depot designs

Built for ceiling or gantry depot applications



Hands-free charging

The Siemens VersiCharge Apex pantograph adds high power charging to depots. This design requires no interaction by the operators to initiate a charge, thus, saving time and avoiding personnel handling plug-in cables.

Modular installation

Providing flexibility in your depot design, the ceiling-mounted electrical infrastructure can be easily run using either cable or busway. Power is supplied by the main, high-power charging cabinet.

Communications

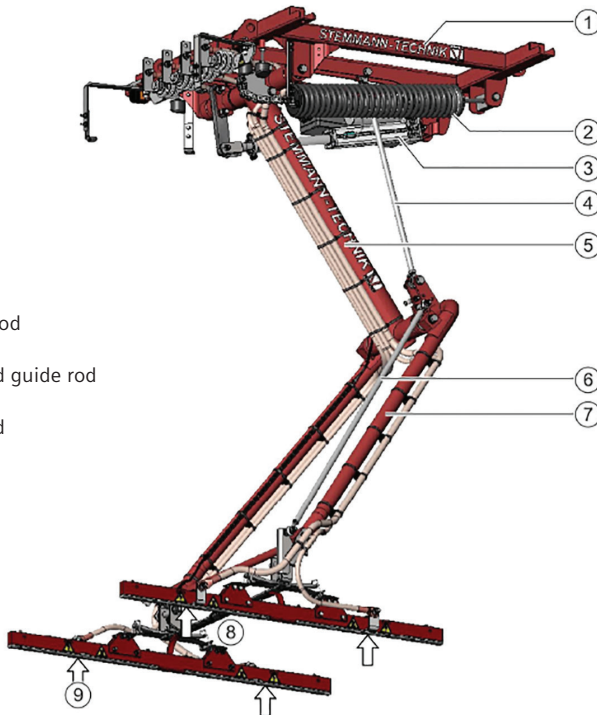
Communication to the pantograph is over secure Wi-Fi based on ISO 15118, ensuring the unit is only deployed when required.

Operations

The pantograph will automatically connect to the bus when communication is established and proximity is confirmed. Force sensors will ensure accurate deployments and additional safety measures are in place should the power flow or communication fail at any point of the charging process. To ensure connectivity in colder climates, the contacts are heated to prevent icing.

Pantograph

1. Base frame
2. Spring
3. Spindle drive
4. Upper guide rod
5. Upper arm
6. Collector head guide rod
7. Lower arm
8. Collector head
9. Four contacts



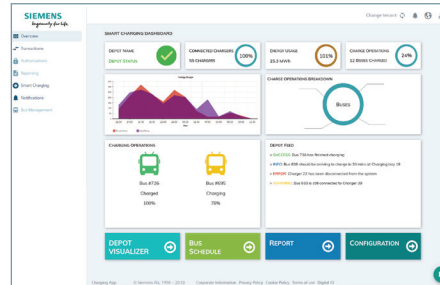
Cloud based Software as a Service™ (SaaS)

Operator interfaces and technical specifications

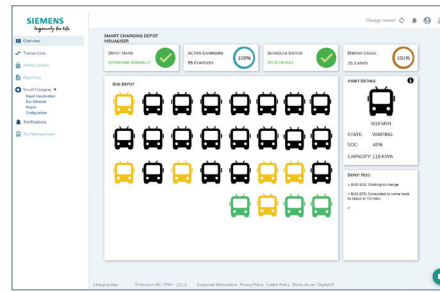
Cloud SaaS

The Siemens IoT cloud solution provides monitoring, control, operational data, and reporting for the entire charging infrastructure. Communication is based on the industry's open standard, OCPP 1.6J. Common operational and performance information includes:

- Begin and duration of charging session
- Bus-ID and ID of the charging station
- Amount of charged energy in kWh
- Profiles for voltage, power, and current
- Detailed process and statistics information
- Charging profile / Energy / Availability analysis
- Alerts and alarms



Dashboard overview



Monitoring and reporting

Siemens SaaS Features



- Remote support and diagnostics



- Charger notifications SMS/email



- Customer monitoring / reporting on any web browser



- Energy optimization

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