Siemens wall-mountable electric vehicle charging solutions

Charging toward a smarter future

Siemens' portfolio of electric vehicle charging stations offers electric vehicle manufacturers, municipalities, corporations, fleets and utilities the high-reliability, plug-in electric vehicle (EV) charging that drivers prefer. The easy-to-use stations provide multiple power options, integrating aesthetics and ergonomics with sturdy construction — ideal for residential, commercial and outdoor public applications.

The Siemens wall-mountable charging station is a 7.2-kW single output station designed for residential and light commercial applications for the North American marketplace. The station delivers Level II (208/240 V @ 30 A) charging and is compatible with plug-in electric vehicles that comply with the SAE J1772™ plug-in electric vehicle charging standard. The station's small size and flexible interfaces for utility advanced metering infrastructure (AMI) make it an ideal solution for homeowners, utilities, fleet managers, auto manufacturers and industrial customers.

To eliminate energy theft and to enhance safety, a card reader option is available for drivers to access and energize the station with a network card, such as ChargePass™, or contactless credit card. The station's highly visible display guides drivers with instructive messages and can be used to display custom advertisement or greetings for drivers. Access and network features can be modified to suit your specific application needs.

Network enabled

Siemens EV chargers can be equipped with connectivity via network service providers, such as ChargePoint®, which includes 24/7 driver assistance, station location, station availability, trip mapping, driver billing and driver notification services. The devices are compatible with remote management, billing, maintenance and other on-demand software applications.

Smart card reader

Siemens' chargers feature an integrated standards-based RFID reader that accepts network cards. This feature provides optional driver billing and custom access control, preventing electricity theft and enhancing safety.

Intelligent power control

Algorithms ensure power is delivered only when a driver is authorized and the EV connector is properly inserted.

Vacuum fluorescent display with multiple language support

A bright, easy-to-read display is used for instructive, advertisement and greeting messages in many languages.

Integrated fault detection

- Ground fault detection: Integrated ground-fault detection circuitry with auto retry and driver notification is standard.
- Over-current detection: The charger disconnects power to prevent nuisance breaker trips at the service panel. Auto retry and driver notification are automated.
- Plug-out detection: An algorithm disengages power and notifies the driver when a plug is removed.
- Charging complete detection: An algorithm detects completion of EV charge and notifies the driver.

Over-the-air station upgrade

Station firmware is remotely upgraded over-the-air to keep the charging station current with future and evolving EV charging needs.

Utility-grade energy meter

Integrated power metering circuitry provides accurate bi-directional energy measurement.

Remote diagnostics and control

Real-time remote alarm monitoring and control minimizes the need for on-site maintenance.

Network interface

The wireless mesh and cellular network interface allows seamless integration with back office business systems, utility advanced metering infrastructures (AMIs) or home area networks.

Smart Grid compatible

Utility-grade meter and Smart Grid interfaces enable demand response and time-of-use (TOU) pricing.

For more information, please contact your local Siemens representative.

Electrical input	
Input power	7.2 kW
Input voltage	208/240 VAC
Input current	30 A
Input power connections	Line 1, Line 2, Earth
Recommended service panel breaker	40 A double pole breaker (non-GFCI type) on dedicated circuit
Standby power	5 W typical
Electrical output	
Output charging power	7.2 kW
Output voltage	208/240 VAC
Output current	30 A
Output charging connector	SAE J1772™ EV connector on 18′ (5.48 m) cable
Functional interfaces	
Card reader	ISO 15693, 14443
Ground fault detection	20 mA CCID with auto retry (15-minute delay, 3 tries)
Plug-out detection	Power terminated per SAE J1772™ specification
Power measurement	2% @ 5-minute intervals
Local area network	2.4 GHz 802.15.4 dynamic mesh network
Wide area network	Commercial CDMA or GPRS cellular data network
Safety and operational ratings	
Safety compliance	Complies with UL 2594, UL 2231-1, UL 2231-2, UL 1998, NFPA 70, NEC Article 625
Surge protection	6 kV @ 3,000. In geographic areas subject to frequent thunderstorms, supplemental surge protection is recommended
EMI compliance	FCC Part 15 Class B
Operating temperature	-22 °F to 131 °F (-30 °C to +55 °C)*
Operating humidity	95% non-condensing
Enclosure	NEMA 3R per NEMA 250-1997
Terminal block temperature rating	212 °F (100 °C)
Maximum charging stations per 802.15.4 radio group	100. Each station must be within 150 feet of at least one other station.

* - pending independent testing

Dimensions						
	Height		**Width**		**Depth**	
	in	mm	in	mm	in	mm
Wall mount	33.2	842.5	22	558.8	4.8	121.4

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