



Siemens community multi-level electric vehicle charging solutions

Charging toward a smarter future

Siemens' portfolio of electric vehicle charging stations offers municipalities, corporations, fleets and utilities the high-reliability, plug-in electric vehicle 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.

Siemens community multi-level charging stations are dual output stations designed for public outdoor applications for the North American marketplace. The 7.2 kW output delivers Level II (208/240 V @ 30 A) charging via a standard SAE J1772™ connector and fixed 18-foot cable. The 2-kW output delivers Level I (120 V @ 16 A) charging via a standard NEMA 5-20 receptacle protected behind a locking door (Level I cord not included). Both outputs can deliver energy simultaneously.

To eliminate energy theft and to enhance safety, drivers 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 or contactless credit 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.

Locking door

The locking door mechanism protects the power insertion point and retains the EV charging cord to prevent theft during charging.

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.

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

Energy 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	Level 1	Level 2
Input power	2.0 kW	7.2 kW
Input voltage	120 VAC	208/240 VAC
Input current	16 A	30 A
Input power connections	Line, Neutral, Earth	Line 1, Line 2, Earth
Recommended service panel breaker	20 A single pole breaker (non-GFCI type) on dedicated circuit	40 A double pole breaker (non-GFCI type) on dedicated circuit
Standby power	5 W typical	
Electrical output		
Output charging power	2.0 kW	7.2 kW
Output voltage	120 VAC	240 VAC
Output current	16 A	30 A
Output charging connector	NEMA 5-20 receptacle	SAE J1772™ EV connector on 18' (5.48 m) cable
Functional interfaces		
Card reader	ISO 15693, 14443	
Ground fault detection	5 mA CCID Each includes auto retry (15-minute delay, 3 tries)	20 mA CCID
Plug-out detection	Programmable arm and trip current thresholds	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	UL Listed for USA and cUL certified for Canada; Complies with UL 2594, UL 2231-1, UL 2231-2, UL 1998, NFPA 70, NEC Article 625	
Surge protection	6 kV @ 3,000 A. In geographic areas subject to frequent thunderstorms, supplemental surge protection is recommended	
EMI compliance	FCC Part 15 Class A	
Operating temperature	-22 °F to 122 °F (-30 °C to +50 °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	24. Each station must be within 150 feet "line of sight" of at least one other station.	
Approximate shipping weights	Bollard 77 lbs (34 kg)	
	Pole mount 52 lbs (23 kg)	
	Wall mount 55 lbs (25 kg)	

* - pending independent testing

	Height		Width		Depth	
	in	mm	in	mm	in	mm
Bollard	50.47	1282.0	11.49	291.8	11.94	303.2
Pole mount	22.56	573.0	12.73	323.4	11.94	303.2
Wall mount	22.56	573.0	12.02	305.3	11.94	303.2

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