SIEMENS

Energizing the evolution of eMobility

VersiCharge™ AC series

usa.siemens.com/versicharge

The evolution of eMobility

The future builds on experience

Electromobility has become one of the most important technology trends on our way into a cleaner, more sustainable future. As of 2018, over three million electric vehicles worldwide were on the road. Climate conscious consumers are responding to more competitively priced electric vehicles due to government rebates, lower up-front and maintenance costs, batteries with extended range, and more stringent state and federal emissions regulations, but there is still the need for charging infrastructure.

Siemens has always been at the forefront of eMobility™. The company presented the world's first electric railway as early as 1879, soon after the invention of the electric generator, the world's first trolleybus in 1882, and a four-seated electric car in 1905.

Siemens' PlugtoGrid™ end-to-end set of solutions makes it possible to design and execute electric vehicle charging infrastructure projects of any size. Chargers can be easily connected to the grid with Siemens' eMobility™ open protocol charging technology and electrical power distribution solutions, as well as flexible options like energy storage, renewable power integration, smart building management, and managed cloud services.

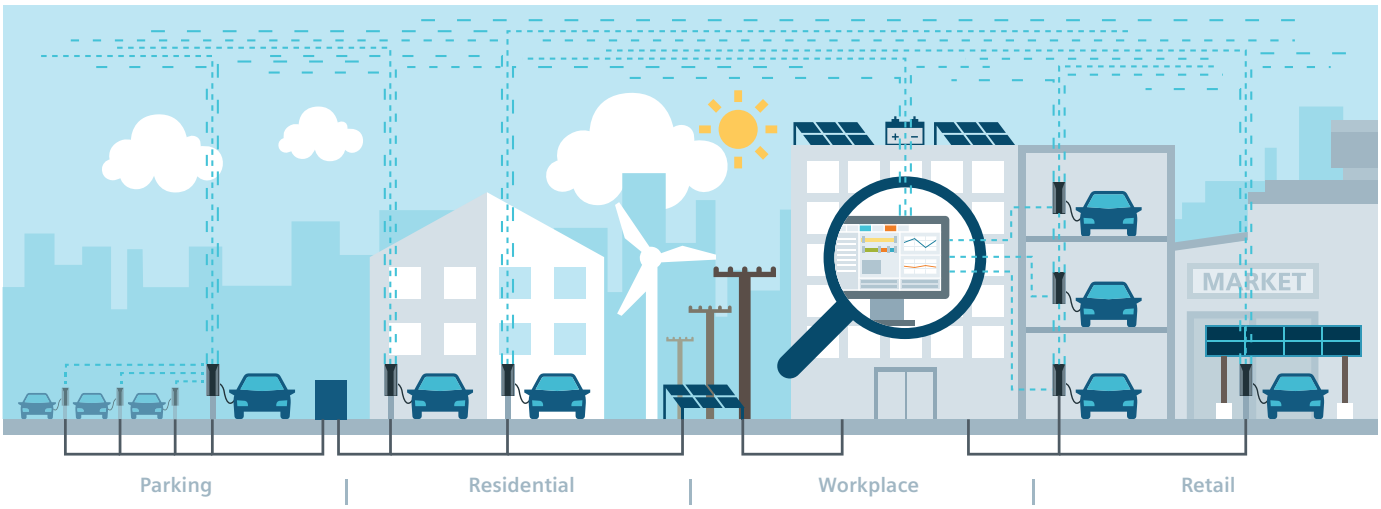
Now Siemens presents the third generation of the award-winning VersiCharge AC chargers. Offering numerous benefits and features such as smart building integration, flexibility with configurations and communications, secure billing, and much more, VersiCharge AC chargers make sure you're all charged up ready to go!

Powerful, versatile, cost-efficient

The VersiCharge AC series

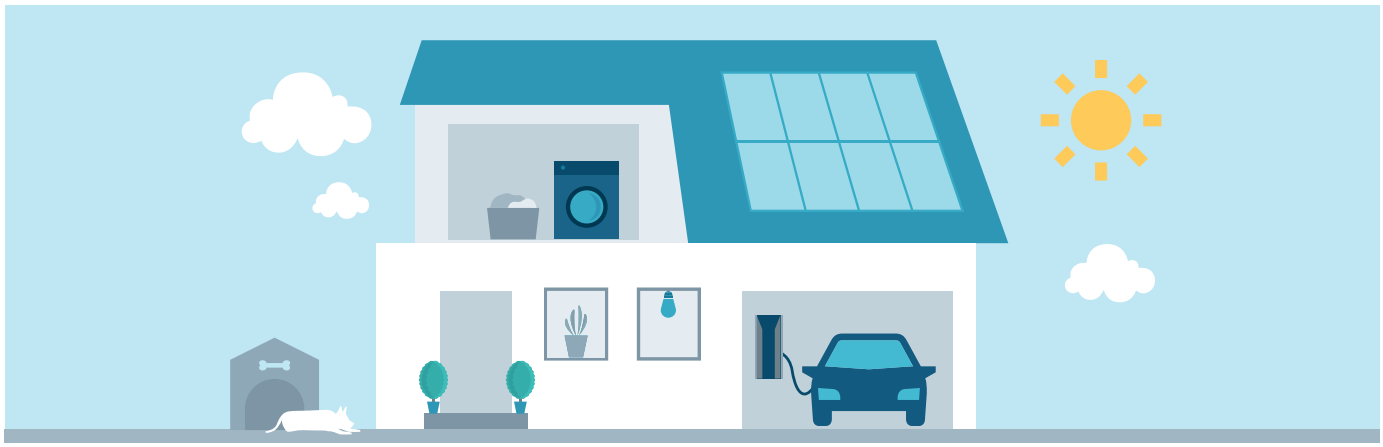
Siemens VersiCharge chargers have stood for superior quality, ruggedness, and proven technology for more than a decade and have reliably provided millions of charges to EV (electric vehicle) drivers worldwide. The new third generation VersiCharge AC charger is continuing this tradition with numerous groundbreaking enhancements, a fresh and appealing design, and up to 11.5 kW of AC (alternating current) charging power. Providing various communication options, including the option to establish a parent-child configuration.

The VersiCharge AC charger can be connected to the customer's preferred back-end system making it scalable and cost-efficient. It also offers revenue-accurate metering and can interact with building management systems, such as Siemens Desigo for dynamic load management that smartly adjusts as building energy demand changes. The rugged and slender VersiCharge AC charger is suitable for both indoor and outdoor use and can either be mounted on a wall or supplementary post.



The ideal solution for any application

Uniquely tailored for both commercial and home charging, VersiCharge AC charger comes with an easy-to-use mobile application and can charge any standard EV with just a tap of a button from your phone. VersiCharge AC home charger offers you cutting edge technology for the most affordable price.



Making a difference

Key features

Compatibility with all common electric vehicles and applicable charging standards plus easy to use, comfort functions such as delayed and planned charging ensure a high degree of customer convenience.

Rugged housing fit for outdoor applications (NEMA 4)

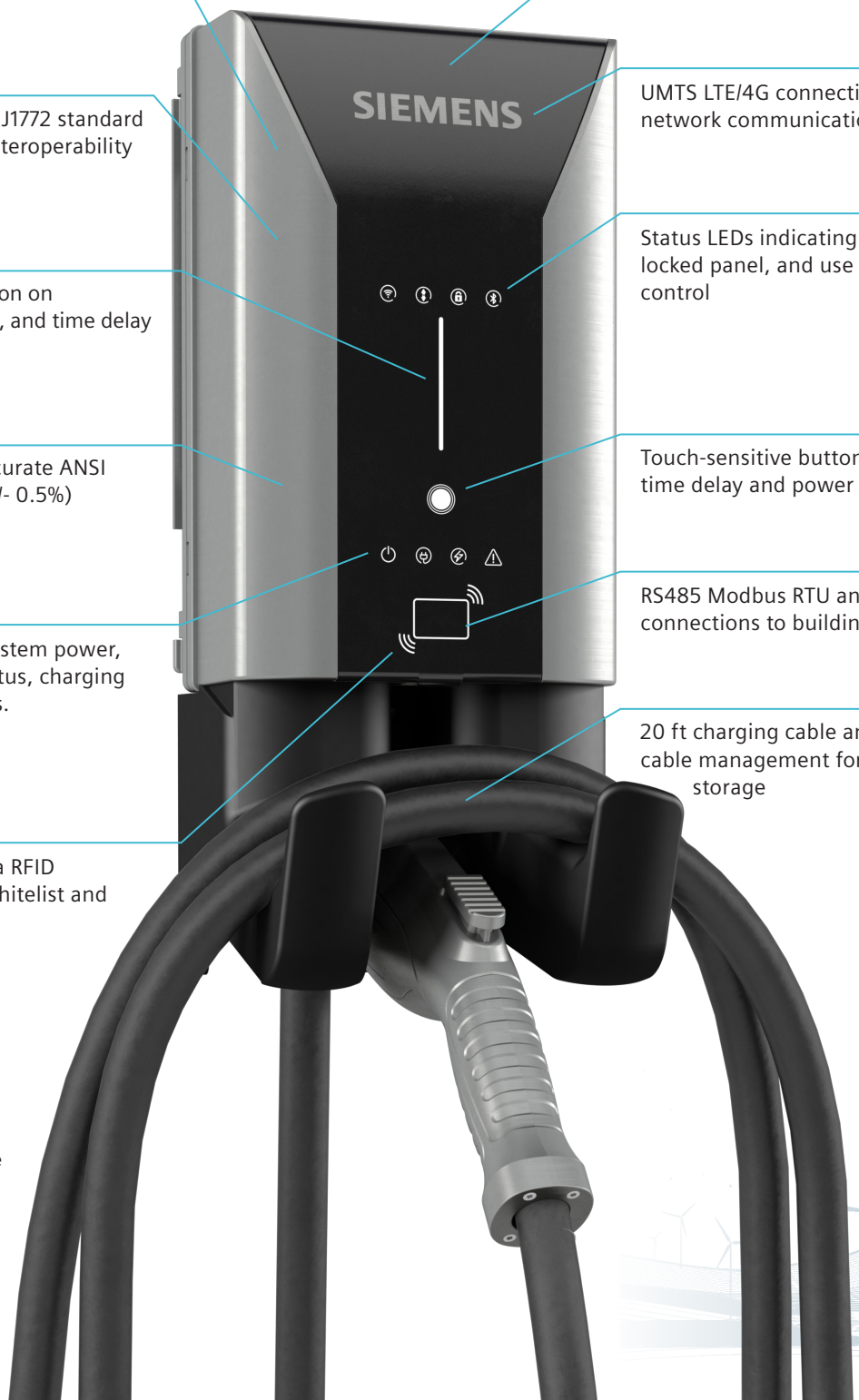
UL listed and tested to J1772 standard to ensure safety and interoperability with all standard EVs

Status bar for information on identification, charging, and time delay

Integrated revenue accurate ANSI compliant metering (+/- 0.5%)

Status LEDs indicate system power, vehicle connection status, charging power, and fault status.

User authentication via RFID (Mifare classic, local whitelist and synching via OCPP)



Integrated high performing dual band Wi-Fi

UMTS LTE/4G connectivity for mobile-network communication (Parent units)

Status LEDs indicating connectivity, locked panel, and use of remote control

Touch-sensitive button for desired time delay and power level

RS485 Modbus RTU and Modbus TCP connections to building management

20 ft charging cable and integrated cable management for convenient storage

*ERK metering via software update is coming in 2021

Setting the stage

Benefits designed for you

Smart building integration

- Monitor and control through Siemens Desigo and third party systems
- ModBus TCP & RTU communication
- Smart load management and monitoring

Flexibility

- Modular and extendable site configurations
- Various communication possibilities
- Wall or post mounted

Robust & Reliable

- Indoor outdoor capable (NEMA 4)
- Designed to meet highest cybersecurity standards
- Industry leading safety features

State of the Art & Future Proof

- Tested EV Interoperability
- Remote upgradeability
- Open payment options
- Integrated revenue accurate metering

Intuitive Design

- Smart interface and easy usability
- Quick setup using the mobile App for iPhone and Android
- Integrated upstream electrical protection

Integrity

- Cost effective
- Third generation VersiCharge AC charger
- Quality by Siemens

Flexibility for the future

Smart building integration

VersiCharge AC chargers offer various communication interfaces for seamless integration to local and remote networks. An extensive ModBus implementation allows for direct communication with building management systems such as Siemens Desigo to allow for many use cases including dynamic load management.

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Modular system configuration

Whether you are using the VersiCharge parent units just as a communications gateway or to execute more extensive local networking and control functions, the parent-child configuration options will reduce investment and operational costs.

Flexible posts for all applications

- PV fade-resistant and rust-resistant
- Multiple wiring options
- Single and dual post options
- Cable retraction system, 20 ft. cable

New post designs coming soon!

VersiCharge AC Series – Technical data

Features and functions	
Charging mode	Level 2
Vehicle connection	J1772 plug with 20 ft cable, 40/48 A / integrated cable management
AC power output	Single phase up to 9.6 kW (40 A) or 11.5 kW (48 A)
Mounting options	Wall and post mounting, see accessories
Touch Button	Time delay, return to max, power level, reset ground fault
Charging status LEDs	Power, Cold start, time delay, charging state, reduced power level, authentication
Communication status LEDs	Connected / not connected during operation, signal strength during commissioning
Parent / child	Connects up to 10 child units by Wi-Fi (100 ft line of sight) and 24 child units by serial Modbus RS485. Each unit is provided with one Ethernet port as well.
Load management	via OCPP or via ModBus
Communication	
Interfaces	Ethernet, Wi-Fi, ModBus RS-485, ModBus TCP/IP, for parent units additionally LTE, WCDMA
User authentification	RFID (local Whitelist, MiFare), ready for plug-and-charge acc. to ISO 15118 (upgradeable OTA)
Configuration	via Siemens mobile app
Back-end protocol	OCPP 1.6, upgrade-able to OCPP 2.0
Software upgrade	over the air (OTA)
Electrical design	
Power supply voltage	Single phase: 208 V / 240 V AC, 60 Hz
Rated current settings (A)	12, 16, 24, 32, 40, 48
Cross wire section	Single phase: 8 Awg / 6 Awg (75C rated wire)
Network type	Single phase / split phase
Energy metering	revenue accurate, ANSI C12.20 compliant metering
Ground fault protection	20 mA
DC residual current monitoring	Not applicable
Over voltage protection	Under voltage: 167 V (min. 80 V) / over voltage: 267 V (max. 275 V)
Over current protection	Current +10% above configured threshold, min. +2A, 5 seconds
Operating altitude	9,840 ft
General design	
Environmental rating	Indoor and Outdoor, NEMA 4, IK 10
Dimensions (HxWxD)	16.10 x 7.09 x 3.78 (in)
Weight	17 lbs
Ambient conditions	Operating temperature: -31°F - +122°F, Storage Temp.: -40°F to +140°F, 98% non condensing
Colors	Silver Metallic (Pantone 10077), Black holster
Certificates and standards	
cUL listed	according to UL 1998, UL 991, UL2594/CSA C22.2 No.280/NMX-J-677-ANCE, UL 2231-1/CSA C22.2 No.281.1/ NMX-J-668-1, UL 2231-2/CSA C22.2 No.281.2/NMX-J-668/2-ANCE, UL 2251/CSA C22.2 No.282/NMX-J-678-ANCE
EMC	FCC Part 15.247, FCC Part 15B, FCC Part 15C

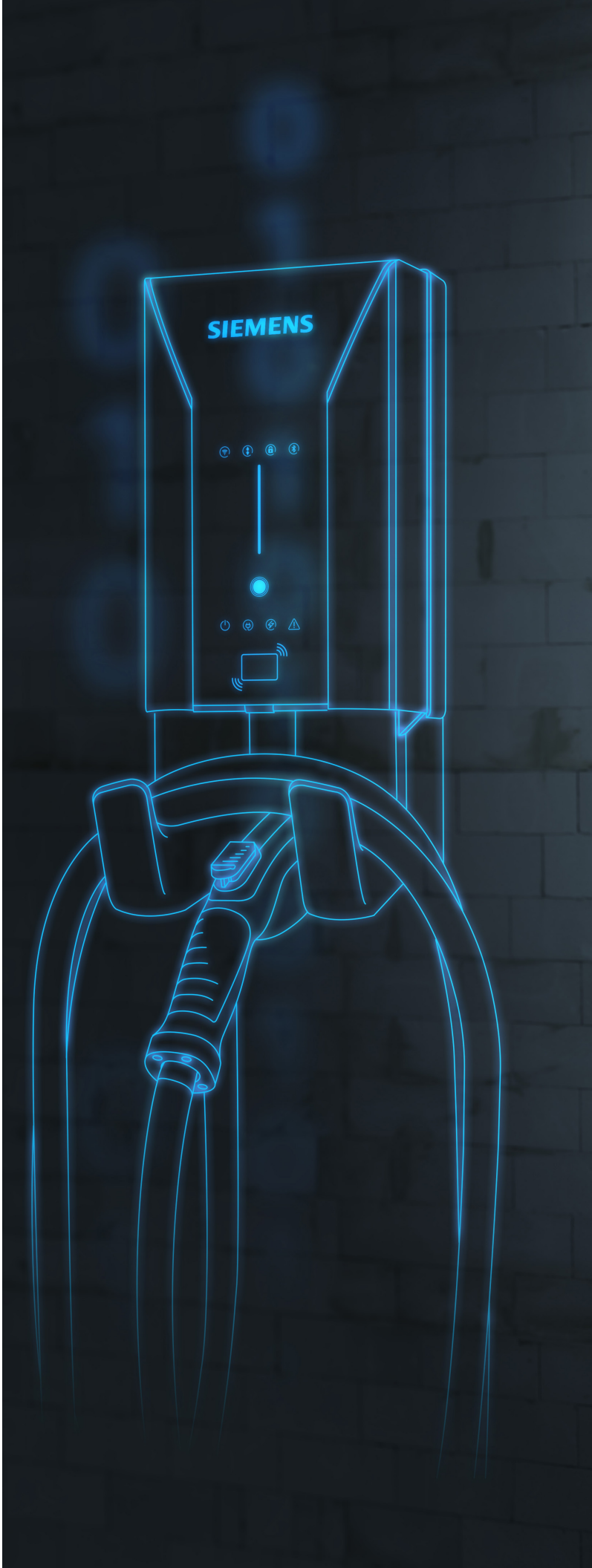
		Max. current	Model number	HW ready for ISO 15118	Wi-Fi and Ethernet	Modbus RTU / TCP	RFID identification	Revenue grade metering	LTE WCDMA	SIM Card
Residential versions	Basic	40 A	8EM1312-4AF10-0AA3	–	–	–	–	–	–	–
		48 A	8EM1312-5AF10-0AA3							
	High End	40 A	8EM1312-4CF18-0FA3	✓	✓	–	–	✓	–	–
		48 A	8EM1312-5CF18-0FA3							
Commercial versions	Child	40 A	8EM1310-4CF14-0GA0	✓	✓	✓	✓	✓	–	–
		48 A	8EM1310-5CF14-0GA0							
	Parent	40 A	8EM1310-4CF14-1GA1	✓	✓	✓	✓	✓	✓	–
		48 A	8EM1310-5CF14-1GA1							
	Parent with SIM cards	40 A	US2:VERSICELL40	✓	✓	✓	✓	✓	✓	✓
		48 A	US2:VERSICELL48	✓	✓	✓	✓	✓	✓	✓

Data plans for chargers

Siemens offers two commercial parent chargers with data plans for customer convenience. See table below for data plans.

Max current	Model
40 A	US2:VERSICELL40
48 A	US2:VERSICELL48

Description	Catalog Number
AT&T 1 year data plan, 2GB capped monthly bandwidth (supports ONE Parent charger).	P3R77992000784
AT&T 1 year data plan, 5GB capped monthly bandwidth (supports ONE parent charger and up to 10 commercial child chargers). This is a yearly fee that Siemens will bill direct after year one.	P3R77992000800



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