SIEMENS

Ingenuity for life

Energizing the evolution of eMobility

VersiCharge™ AC series

siemens.com/versicharge

The evolution of eMobility

The future builds on experience

Electromobility is on of the essential contributors on our way into a clean and sustainable future. Siemens has always been at the forefront of this evolving technology :
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.

With its unparalleled treasure of domain experience and know-how, Siemens has developed the unique eMobility™ portfolio. It enables electric mobility on a large scale – from power generation all the way to the EV charging plug, from charging hardware all the way to IT infrastructure, and from the single charger all the way to comprehensive large-scale solutions.

Three generations, three times better

Now Siemens is presenting the third generation of the award-winning VersiCharge AC wallbox – the charger that already stands as a synonym for superior quality, ruggedness, and proven technology for more than a decade.

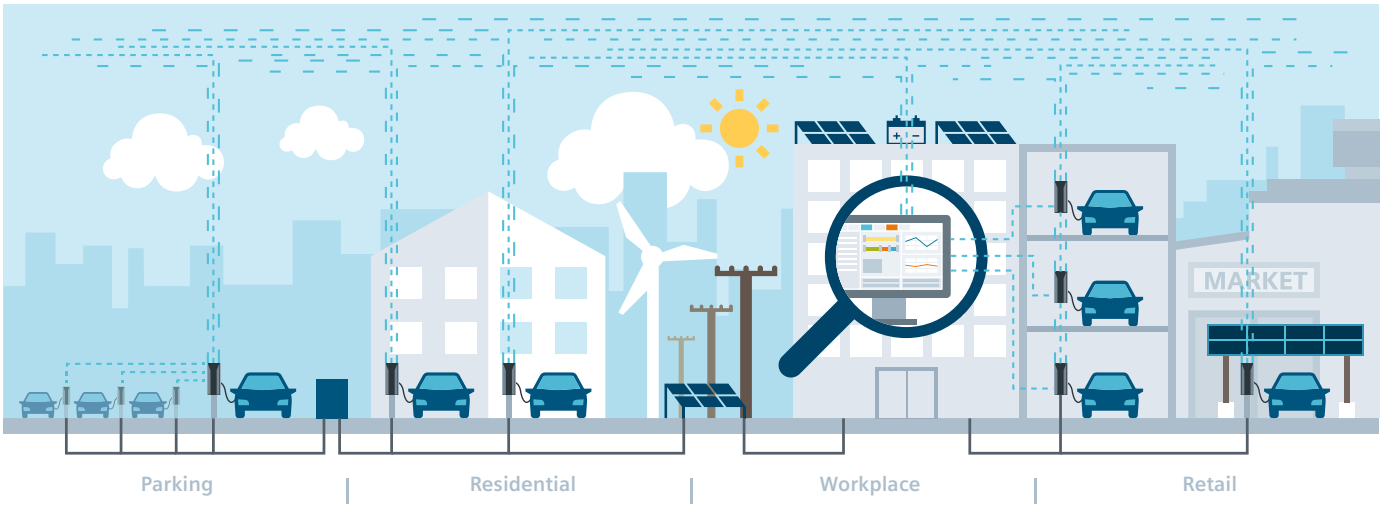
Offering numerous benefits and features such as smart building integration, flexibility with configurations and communications, secure billing, and much more, VersiCharge AC chargers make sure you're all charged up ready to go!

Powerful, versatile, cost-efficient

The VersiCharge AC series

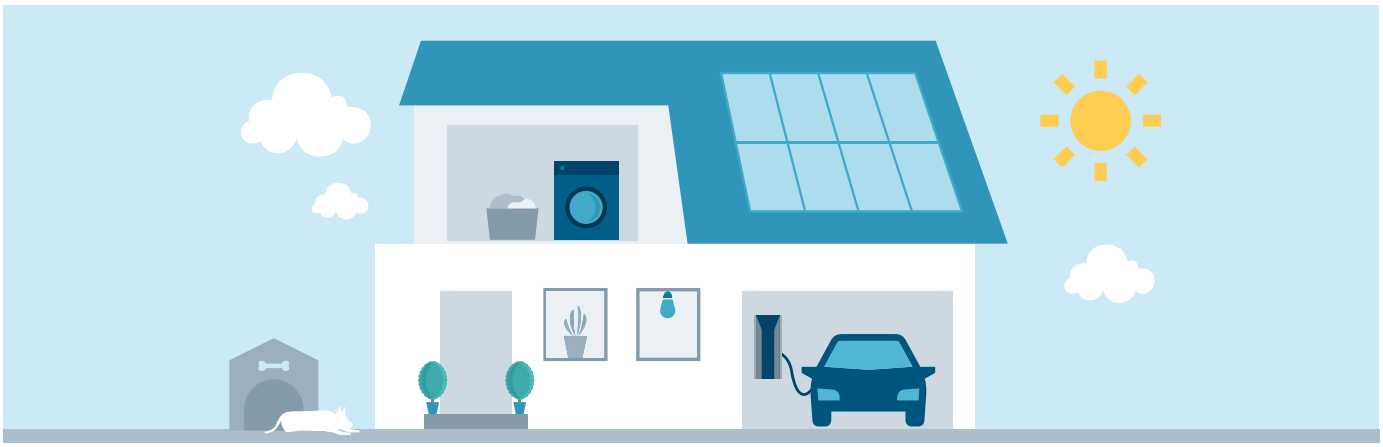
Siemens VersiCharge chargers have stood for superior quality, ruggedness, and proven technology for more than a decade and have reliably provided millions of charges to EV (electric vehicle) drivers worldwide. The new third generation VersiCharge AC charger is continuing this tradition with numerous groundbreaking enhancements, a fresh and appealing design and up to 22 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 system, 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 offers you cutting edge technology with the most affordable pricing.



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 (IP55 and IK10)

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

Integrated revenue grade MID certified metering*

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

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

Integrated 6mA DC RCD protection provides installation cost savings

Amperage adjustment switch for 5 different current limit setting

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

CE certified for safety and interoperability

Touch-sensitive button for desired time delay and power level

Protective cover

The unit is available with either a type 2 socket or a 7-m cable with a type 2 plug.

RS485 Modbus RTU and Modbus TCP connections e.g. to building management system

*ERK compliant metering will be available in 2021

Setting the stage

Benefits designed for you

Smart building integration

- Monitor and control through Siemens Desigo and 3rd party systems
- Modbus TCP & RTU communication
- Smart load management and monitoring

Flexibility

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

Robust & Reliable

- Indoor outdoor capable (IP55)
- Secure billing
- 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 & easy usability
- Quick setup using the mobile App for iPhone and Android
- Integrated upstream electrical protection

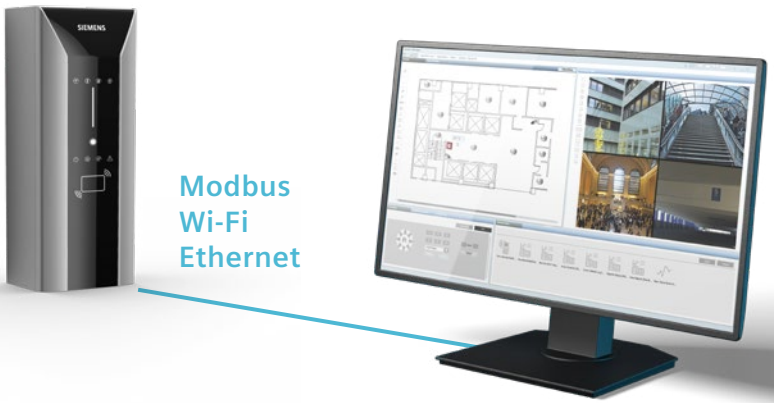
Integrity

- Cost effective
- 3rd generation Versicharge AC Wallbox
- Quality made 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.



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 and elegant posts

Easy cloud integration

Wi-Fi, Ethernet, 4G, and UMTS

easy to use mobile app

Simple ID card identification

VersiCharge AC wallbox – technical data

Features and functions	
Charging mode	Mode 3
Vehicle connection	Type 2 socket, 32 A, or 7-m cable with type 2 32 A plug and integrated cable management
AC power output	1 phase: up to 7.4 kW, or 3 phase: up to 22 kW
Environment	Indoor and outdoor
Mounting options	Wall- and pole-mounting, see accessories
Touch button	Time delay, return to max. power level
Charging status LEDs	Powered up, time delay, charging state, reduced power level, authentication
Communication /status LEDs	Connected / not connected during operation / signal strength during commissioning
Parent / child	Up to 24 child units per parent unit for combined communication to backend
Load management	via OCPP or Modbus
Communication	
Interfaces	Ethernet, Wi-Fi, Modbus RS-485, Modbus TCP/IP, for parent units additionally GSM, LTE, 4G
User authentification	RFID card (local whitelist, MiFare), ready for plug-and-charge acc. to ISO 15118 (upgradeable OTA)
Configuration	via Siemens mobile app or Siemens PC Tool
Backend protocol	OCPP 1.6, upgradeable to OCPP 2.0
Software upgrade	Remote update possible
Electrical design	
Power supply voltage	Single phase: 230 V / 7,2 kW, three phase: 400 V / 22 kW; 50 Hz
Rated current settings	10/ 13/ 16/ 20/ 32 A
Cross wire section	Single phase: 10 mm^2, three phase: 10 mm^2
Network Type	TT / TN / IT
Energy metering	revenue accurate MID metering
AC ground fault detection	30 mA AC
DC leakage detection	≤6 mA DC
RCCB/ FI	not integrated
Voltage protection	Undervoltage: 167 V (min. 80V) / overvoltage: 267 V (max. 275 V)
Overcurrent protection	Current +10% above configured threshold, min. +2A, 5 seconds
Operating altitude	2,000 m
General design	
IP and IK rating (FOR IEC)	IP 55, IK10
Dimensions (HxWxD)	446 mm x 180 mm x 158 mm
Weight	Cable version: 5.7 kg, socket version: 4.3 kg
Ambient conditions	Operating temperature: -30°C - +50°C, storage temp.: -40°C - +60°C, 98% non condensing
Colors	Silver metallic (Pantone 10077), Black
Certificates and standards	
Certifications	CE
Standards	IEC 61851-1, IEC 61851-21-1, EN 61000-3-3, IEC 62196-1

IEC variants		Parent	Child
Single Phase	Cable	8EM1310-2EJ04-3GA1	8EM1310-2EJ04-0GA0
	Socket	8EM1310-2EH04-3GA1	8EM1310-2EH04-0GA0
Three Phase	Cable	8EM1310-3EJ04-3GA1	8EM1310-3EJ04-0GA0
	Socket	8EM1310-3EH04-3GA1	8EM1310-3EH04-0GA0

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