SIEMENS

Ingenuity for life



SICHARGE UC

Powerful charging solution for your electric fleet

siemens.com/sichargeuc

The SICHARGE UC family

Powerful and reliable, the SICHARGE UC product family takes care of a diverse mix of electric vehicles with high power demand. It provides you with a technical solution that fits your specific needs and ensures the highest availability of your fleet.

SICHARGE UC with its multiple connection options furnishes you with modular building blocks and freedom to choose between Dispensers and high power automated charging with Pantographs or Hood, thus overcoming space constrains.



Interoperability and future proof up to 1000 V

To ensure flexibility in electrifying your fleet – today & tomorrow



Robust, durable, outdoor designed

To ensure longevity of equipment, easy outdoor usage with IP54 and highest fleet availability



Flexible and space-saving

To easily integrate into existing depot with constraints in HW, SW or layout



Optimized CAPEX and OPEX

To realize the most competitive solution and efficiently manage your daily operation



High power for your electric fleet

Keeping an electric fleet charged and running efficiently requires the distribution of high power in an intelligent way. The SICHARGE UC product family provides the right technical solutions for your business needs. It depends on the routes, charging schedules and location of electric vehicles when and where charging is most reasonable and efficient.

Depot charging

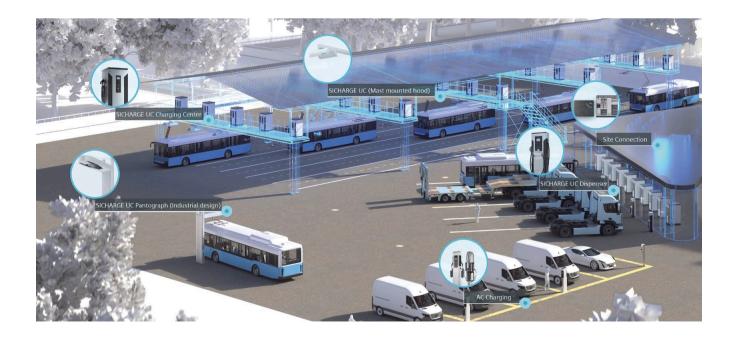
In a central depot, vehicles generally spend some hours during a day or night and can be sequentially charged as per the needs of their schedule.

Charging directly from a SICHARGE UC compact charger or sequentially connected Dispensers is well suited for overnight charging at the depot.

Opportunity charging

High power automated charging with Pantographs or contact Hoods is the optimal solution for ultra fast charging and shorter charging cycles.

This solution can either be implemented for on-route charging or in the depot when tight schedules need to be considered.



Charging setup tailored to your needs

Flexible configuration options

Compact charging

SICHARGE UC 100C or 200C compact charger with integrated cable – simple and direct connection with your eVehicle.

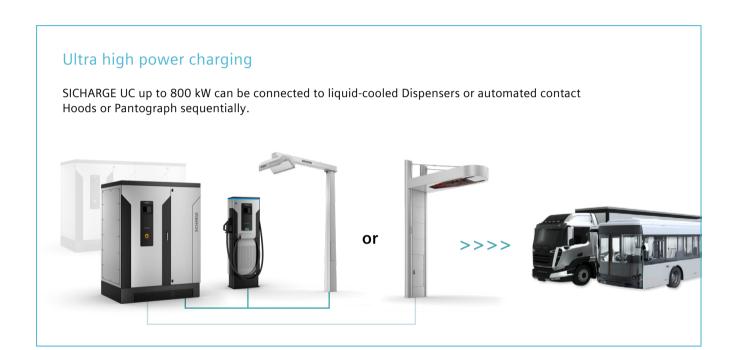




Sequential charging

SICHARGE UC 100 to 400 with up to 5 air-cooled or 3 liquid-cooled Dispensers or automated contact Hoods connected sequentially.







State-of-the-art technology

Charging Center

The Charging Center is the core of your system. It contains the charging controller, the DC converters and optionally a direct cable connection to the vehicle. Several other vehicle connections like the cable based Dispenser, inverted Pantograph and Hood can be powered by this unit.



Dispenser

The cable connected Dispenser of the UC family is installed close to the vehicles connection with a small footprint and elegant design.

For investment and space optimization, several Dispensers can be powered in sequence by a single Charging Center.

Inclined rain protection Charging status indication by 360 degree LED light Hood directs water to the rear (optional) Multilingual 7" outdoor touchscreen display at an High degree of ergonomic height, accessible protection IP54 against and easy to read - also in dust and spray water bright sunlight (optional) Covered plug holder Cable holder for convenient (optional) and clean operation Multiple options for Power cable for application floor, wall or roof in rough environments mounting with comfortable length Cable optionally cooled Air ventilation slots for for up to 400 A the liquid-cooled cable

Inverted Pantograph

MastPanto – industrial design MastPanto – urban design

The inverted Pantograph is a fully automated option to connect to the fleet e.g. on feeding opportunities along the route.



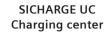


Mast mounted Hood

For electric vehicles with integrated Pantograph, the Hood is the connecting counterpart. The Hood is available in two variants: mounted on a mast or directly under the ceiling.

Technical data

SICHARGE UC Compact charger & Charging center



SICHARGE UC High power charger









Vehicle interface CCS CCS - - - Air-cooled CCS cable Dispenser × <	SICHARGE UC	100 C / 100	200 C / 200	400	600	800					
Air-cooled CCS cable Dispenser	Vehicle interface										
Liquid-cooled CCS cable Dispenser	Integrated cable	CCS	CCS	-	-	-					
Mast mounted (inverted) x <td>Air-cooled CCS cable Dispenser</td> <td>×</td> <td>×</td> <td>-</td> <td>-</td> <td>-</td>	Air-cooled CCS cable Dispenser	×	×	-	-	-					
Mast mounted (inverted) Pantograph Nominal liput Voltage, V AC Current at nominal voltage per phase, A Power factor (cos phi) Peak power, kW Peak power, kW Peak power, kW Poltage, V DC Current (max.), A Poltage, V DC Efficiency factor (a to ladd 100%), % Environmental conditions Operating temperature and humidity Max. operating altitude, m Mechanical specifications Operating alterial Casing material Color Main housing: RAL 9006 — White aluminium; roof and base: RAL 9017 − Traffic black matt 746 x 929 x 939 x 1500 x 1000	Liquid-cooled CCS cable Dispenser	-	-	×	-	-					
Nominal input	Mast mounted Hood	×	×	×	×	×					
Voltage, V AC 400 (3ph + PE) ± 10 % Current at nominal voltage per phase, A per phase, A 152 228 456 683 911 Frequency, Hz 50* 50* Power factor (cos phi) > 0.98 DC output*** Peak power, kW 125 200 400 600 800 Rated power, kW 100 150 300 450 600 Current (max.), A 125 200 400 600 800 Voltage (range), V DC 10 1000 Efficiency factor n (at load 100%), % 96 97 Environmental conditions Operating temperature and humidity 45°C (can be extended upon request) and up to 95% relative humidity (noncondensing) Max. operating attitude, m 2000 (without derating) Mechanical specifications Operating temperature and humidity 45°C (can be extended upon request) and up to 95% relative humidity (noncondensing) Max. operating temperature and humidity		-	×	×	×	×					
Current at nominal voltage per phase, A per phase, A Frequency, Hz per phase, A Frequency, Hz 152 228 456 683 911 Prequency, Hz Prepared State Prepared Stat	Nominal input										
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Power factor (cos phi) South Service Sou		152	228	228 456		911					
DC output** Peak power, kW 125 200 400 600 800 Rated power, kW 100 150 300 450 600 Current (max.), A 125 200 400 600 800 Voltage (range), V DC 101000 Frequency (actor η (at load 100%), % 9697 Freduction expecifications Proper (actor η (at load 100%), % 9697 Frequency (actor η (at load 100%), % Proper (actor η (at load 100%), % 9697 Proper (actor η (at load 10	Frequency, Hz	50*									
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	Charging standards		EN 61851-1/2	23/24, ISO 15118 (D	IN 70121)***						
CE-Certification Yes	EMC standards		EN 55016-2-1 & -:	3; EN 61000-4-2 & -3	3 & -4 & -5 & -6						
	CE-Certification	Yes									

^{*60} Hz upon request

^{**}Details available in the technical manual

^{***}Complies with ISO15118-1 standard use-cases, further use-cases being implemented

SICHARGE UC Dispenser

SICHARGE UC Mast mounted Hood SICHARGE UC Inverted Pantograph

Air-cooled Liquid-cooled











Connection options	Dispenser		Mast mounted Hood	Inverted Pantograph					
Design variants	Air-cooled cables	Liquid- cooled cables	ID Industrial design	UD Urban design (optional*)	ID Industrial design	ID-E Industrial design- extended			
DC output**									
Connection standard	CCS t	ype 2	CCS	OPPCharge					
Peak power, kW	125 / 200	125 / 200 400 800 8		800	800				
Rated power, kW	100 / 150	300	600	600					
Current, A	125 / 200	400	500	800					
Voltage (range), V DC	101000								
Environmental conditions									
Operating temperature and humidity	-25+45 $^{\circ}$ C (can be extended upon request) and up to 95% relative humidity (noncondensing)								
Max.operating altitude, m	2000 (without derating)								
Mechanical specifications									
Protection	IP54, IK10 for housing, IK 09 for HMI								
Height, installed, mm	2000 (915 for wall mounting)		5000	5805	6573	6573			
Road clearance, mm	n/a		4635		4550 to 4650				
Cantilever length, mm			3500	3955	4200	5200			
Approx. distance mast to curb, mm			1900	1400	1400	2400			
Footprint on sidewalk, mm	600 x 300		350 × 300	940 × 315	1300 × 330	1300 × 330			
Operating range Pantograph, mm	n/a		n/a		900				
Approx. weight, kg	95 (60 for wall mounting)	180	900	1975	1870	2300			
Color	White all roof and base	g: RAL 9006 – uminium; e: RAL 9017 – ack matt	RAL 9006 – White aluminium						
Material	Galvanized powder coated steel		Galvanized steel, painted, min. C3	Galvanized steel with fiber glass panel	Galvanized steel, painted, min. C3				
General specifications									
Communication standard	PLC		PLC	WiFi IEEE 802.11a		1a			
Number of possible connectors (sequential charging)	up to 5		2***	1					
User authentication	RFID (optional)		n/a	RFID (optional)					
Cable lengths, m	3.5 / 6 / 10	3.5/5	n/a	n/a					
CE-Certification			Yes						
Network connection	Ethernet interface / 3G / 4G								
Local user interface	7" touchso (opti	creen HMI onal)	n/a	n/a					
Charging status indication	LED (optional)		LED	n/a					

^{*} Upon a project-specific request

^{**} Details available in the technical manual

^{***} eVehicle under the Mast Hood will be given priority in charging sequence

More than charging



Experience peace of mind

We offer you world-class services and support throughout the entire lifecycle of your charging equipment, thus assuring the maximum uptime and highest availability of your chargers.



Service packages

Our cloud-based service packages Care and Care Plus look after your chargers using the dedicated Siemens service backend.

Care

The basic Care package is included during the warranty period and can be extended by subscription.

It ensures that firmware updates keep your chargers up to date as eMobility continues to evolve. Remote analyses and diagnostics are performed by our support center on demand.

Care Plus

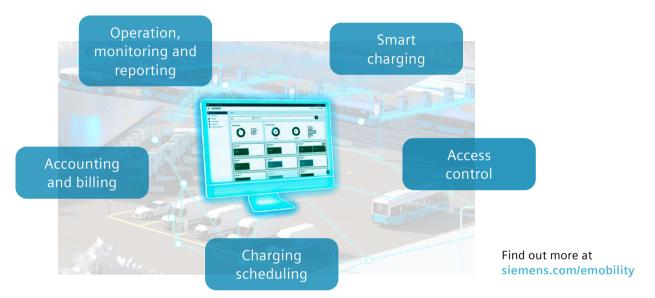
Enjoy all Care digital services and even more with our Care Plus package. Your charger will be proactively monitored and analyzed by our operation center. Firmware updates will be delivered with priority.

Managing charging of your fleet



Benefit from Siemens digital solutions

Together with the charging equipment, our best-in-class software services ensure smooth, reliable and efficient operation of your electric fleet.



From planning to operation



Superior support throughout the lifecycle



Intelligent planning: we support your depot electrification starting from the expert consultancy and depot planning including the charging simulation.



Smart infrastructure: benefit from our comprehensive charging portfolio which includes DC and AC equipment as well as advanced solutions for the power connection of your site.



Managing the operations: Siemens software suite offers everything you need to manage charging of your electric fleet intelligently and efficiently.



Rely on us – we care: during the whole lifecycle our cloud-based service packages Care and Care Plus look after your chargers to ensure highest availability of your fleet.

Siemens AG
Smart Infrastructure
Distribution Systems
Mozartstrasse 31c
91052 Erlangen, Germany
Article No. SIDS-B10059-00-7600
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