SICHARGE UC 100

Robust and reliable DC charging for electric fleets

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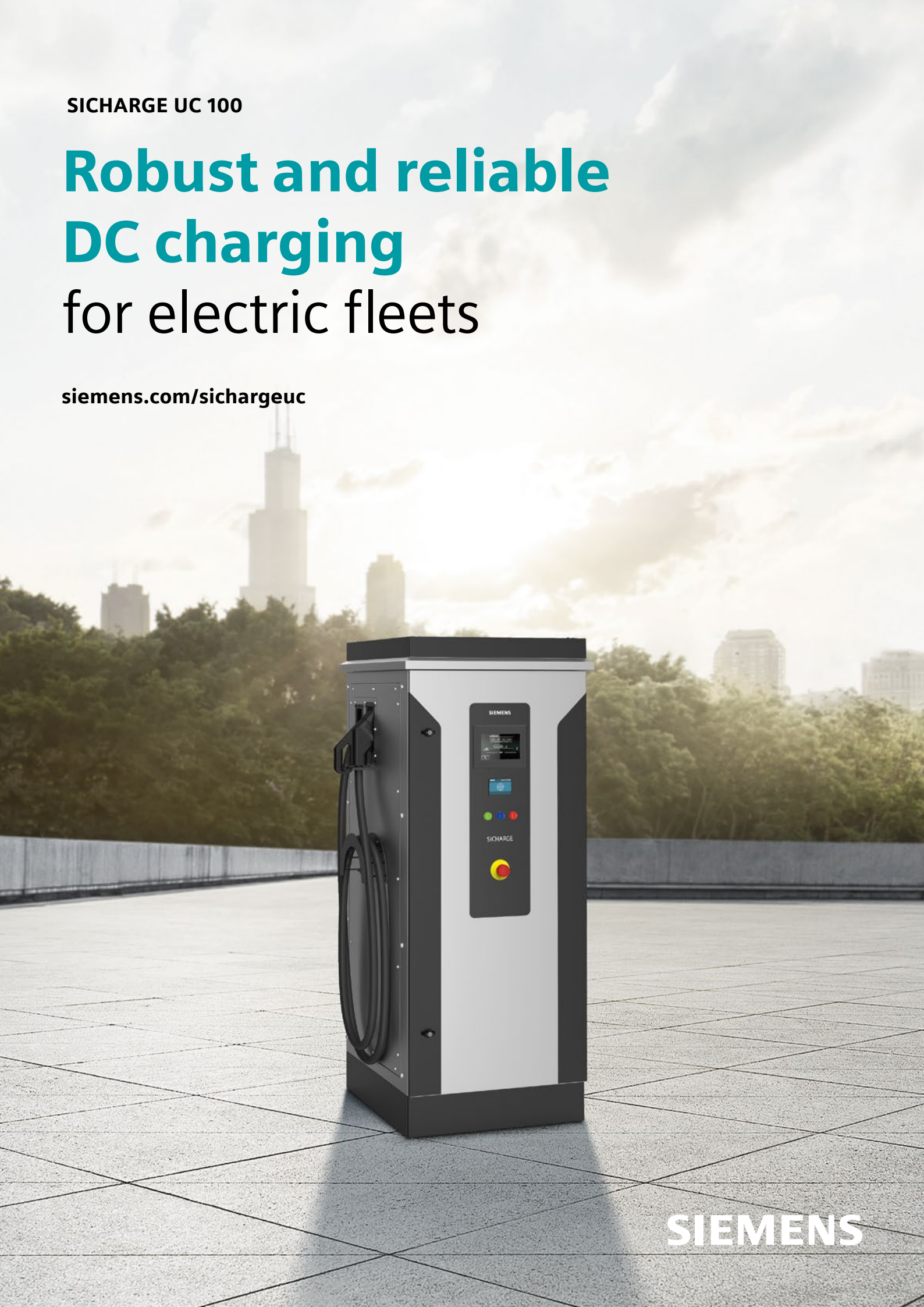

SIEMENS

State-of-the-art technology

SICHARGE UC 100 contains the charging controller, the DC converters, and an optional direct cable connection to the vehicle. Several other vehicle connections like the cable-based dispenser, inverted pantograph, and contact hood can be powered by this unit.

** Optional: Comes without a cable for other types of vehicle connections*

SICHARGE UC 100 charging center highlights

- Power cable* of an appropriate length up to 10 m with cable holder for easy operation
- High degree of protection (IP54) from dust and spray water
- C4 painted for outdoor usage
- Rain inclination hood
- Emergency DC shutdown button
- Smooth plug handling with ergonomically designed plug holder

Optional

A variety of options are available for SICHARGE UC 100 charging center:

- LED for user guidance and indication of DC charging status
- RFID card reader
- Multilingual 7" outdoor touchscreen display at an ergonomic height, accessible and easy to read – also in bright sunlight
- DC charging cable CCS2
- Input AC meter, output DC meter

Technical data (IEC)

SICHARGE UC		100C	100
Configuration with cable		Yes	n.a.
Prepared for dispenser connection		n.a.	Yes
Cable lengths	m	3.5; 6; 10	n.a.
AC nominal input			
Voltage	V	400 ± 10%	
Current at nom. voltage per phase	A	152	
Frequency	Hz	50/60 (upon request)	
Power factor	cos phi	> 0.98	
Short-circuit current rating	kA	10	
THDi	%	< 10	
Network type		TN-C, TN-S, TN-C-S	
DC output			
Rated power	kW	100	
Voltage (range)	V	100 ...1,000	
Current of connected cables (max.)	A	125	
Efficiency factor η (at load 100%)	%	≥ 96	
Environmental conditions			
Operational environment		Indoor and outdoor	
Operating temperature	° C	–25 ... +45	
Operating altitude	m	2,000 above sea level (without derating)	
Relative humidity	%	5 ... 95 (non-condensing)	
Mechanical specifications			
Enclosure protection		IP54, IK10 for housing, IK09 for HMI	
Housing material		Powder-coated galvanized steel, painted	
Coating		C4M	
Color		Main housing: RAL 9006 – White aluminum; Roof and base: RAL 9017 – Traffic black matt	
Overall dimensions (W x D x H)	mm	746 x 898 x 1,800	
Foundation dimensions (W x D)	mm	746 x 898	
Approx. weight acc. to configuration	kg	1,000	
General specifications			
Local user interface		7" HMI (optional)	
User authentication and payment		RFID offline and online (optional)	
Network connection		Ethernet interface; 3G and 4G	
Electric safety device		RCD B-type (optional)	
Operating noise level @ 3 m distance	dB(A)	69	
Norms and standards			
Charging standards		EN 61851-1/23/24, ISO 15118[1)] (DIN 70121), EN 62196-3	
Communications protocol[1)]		OCPP 1.6J	
EMC standards		EN 61000-4-2 & -3 & -4 & -5 & -6	
EMC class		EMC Class A	
CE certification		Yes	

eVehicle connection possibilities

SICHARGE UC 100C	Comes with one cable without the dispenser interface
SICHARGE UC 100	Up to 4 air-cooled dispensers Up to 3 air-cooled dispensers with cable + 1 air-cooled dispenser with contact hood 1 MastHood or 1 MastPanto

1) For supported functionalities of OCPP and ISO 15118, please refer to the technical documentation provided by your Siemens partner

About Siemens eMobility

eMobility is already part of our everyday. And we are committed to anchoring this even more in everybody's daily lives by offering a charging infrastructure that is smart, efficient and innovative – and which makes mobility more sustainable ultimately.

And how do we do this?

By building an ecosystem to tackle the challenges of a complex world together. By cooperating with OEMs, utilities, fleet operators, companies, cities and customers alike – while bringing in the sound knowledge in energy supply, grids, mobility and buildings from a technology company that has been transforming the everyday for a 175 years. By connecting the real and the digital worlds with our IoT-enabled hardware, software solutions and service offerings that help customers and users save time, resources and costs.

And finally, with innovations like wireless or megawatt charging providing solutions for the challenges ahead. Our portfolio is designed for every use case in almost every region of the world – be it at home, at work, at bus stations, or within company depots.

To make a long story short: by electrifying mobility and making it more sustainable, we transform the everyday for a better tomorrow.

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