SIEMENS
Ingenuity for life

SICHARGE D

Dynamic charging for future eMobility

siemens.com/sicharge-d

IEC standard

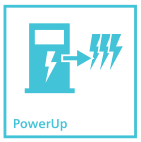
SICHARGE D

The future of fast charging: High-power, flexible, modular, and scalable

Dynamic and flexible, the SICHARGE D compact charger offers numerous built-in options.

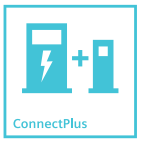
ValueScreen

The 24" touchscreen makes charging an experience and enables easy integration of customized content.



PowerUp

The SICHARGE D chargers allow an easy upgrade of charging power to meet evolving charging needs.



ConnectPlus

Cost-efficient and space-saving, the SICHARGE D can be easily extended with two DC dispensers to charge up to five cars in parallel*.

FullDPA

Dynamic power allocation easily considers eVehicle's individual power demands and ensures optimized charging time.

*coming soon

Perfect fit for all your applications

When travelling, in town, for short breaks

When the time to charge is short and high power is required, the perfect choice is SICHARGE D: The compact charging station that can be seamlessly integrated into your environment.

Highway and urban charging stations

Offering much more than a quick recharge of electric vehicles, our smart and cost efficient SICHARGE D provides you with:

- Best-in-class efficiency
- Highest utilization of installed power
- Very compact footprint

Public fast charging

A perfect fit for any cityscape, SICHARGE D provides your charging infrastructure with:

- Robust housing incl. anti-vandalism protection IK10 also valid for its large screen
- Noise level parameterization (< 50dB(A)) for example for day and night mode
- Variety of payment options

Customer and guest parking

SICHARGE D ensures seamless charging, high reliability, and flexibility along with:

- Unique, appealing design and value-adding screen
- High cyber security based on special Siemens assessment processes

Best-in-class technology

Features designed for you – using extensive technological expertise and passionate ingenuity

Weatherproof, UV-resistant, color-stable, and scratch-resistent powder coating

LED for user guidance and DC status indication left and right

High brightness, intuitive 24" touchscreen display for true barrier-free access and various customization opportunities

DC Charging Cable No. 2: CHAdeMO or CCS2 and DC meter (optional)

Integrated contactless credit-card reader terminal (optional)

Emergency stop button (optional)

Large front and back doors provide easy access for maintenance

Inclined rain-protection slope directs water to the rear

Fit for outdoor applications IP54 and IK10

Shatterproof glass front

DC Charging Cable No.1: CCS2, DC meter (optional)

RFID card reader for user authentication

AC Type 2 socket with flap and plug locking, MID meter (optional)

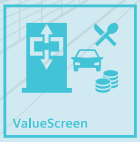
IEC standard CE certified

EMC Class B (optional)

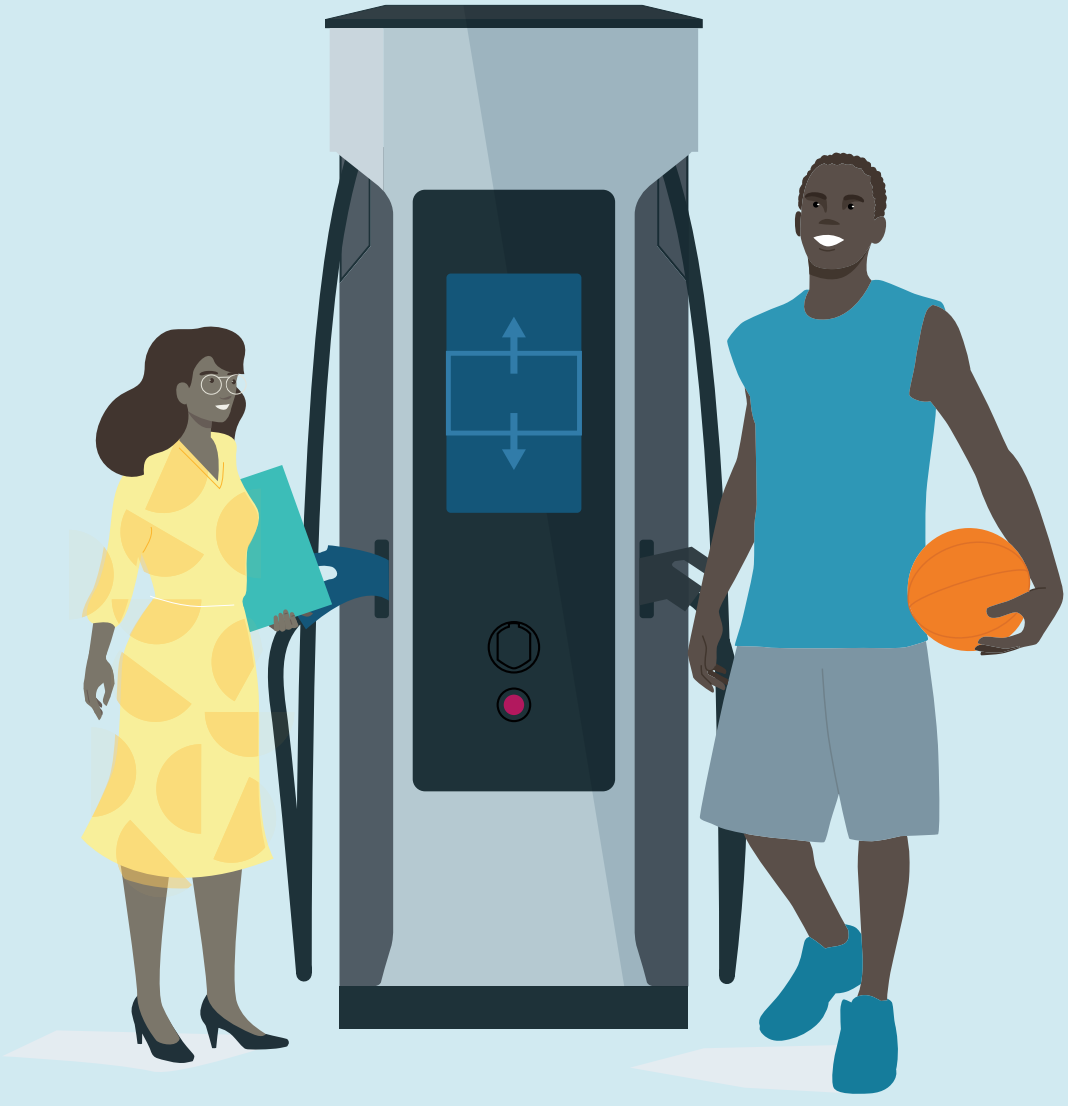
Features setup may differ depending on customer specific configuration

ValueScreen – more than a touchscreen

Numerous opportunities for flexible interaction for you and your customers



The integrated 24" user-friendly adjustable screen allows your customers to easily operate the SICHARGE D charger at the most convenient height. Future chargers will operate as part of integrated business processes, and allow more functions than just charging. With its large flexible screen, the SICHARGE D is already prepared to support this expanded functionality.



Future-proof flexibility

Scalable power and extendable DC outlets

SICHARGE D has a modular system that can be easily upgraded. Future demands on charging power or extension of DC outlets can be met easily and cost-efficiently to serve next generations of electric vehicles.

PowerUp

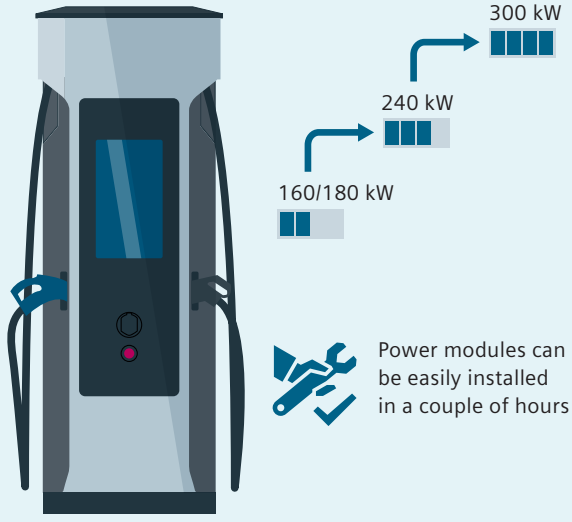
All chargers can be upgraded to 300 kW

With our SICHARGE D you are ready to meet the rising demands for fast charging. Your charger can easily be upgraded with additional power modules guaranteeing minimum downtime: plug-and-play. After restarting, the system is automatically reconfigured and delivers upgraded power.

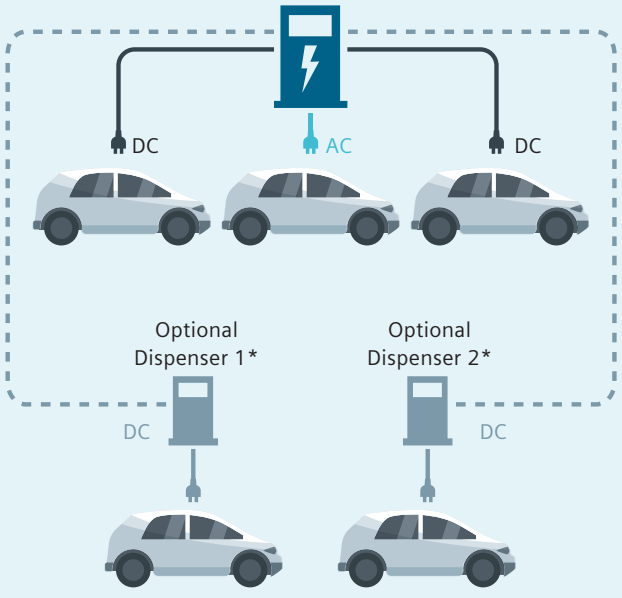
ConnectPlus

Charge up to five cars with a single system

Easily extendable with additional dispensers, the Flex models of SICHARGE D charging systems give you ultimate flexibility and optimized parking space utilization. Easily accessible by up to five electric vehicles charging in parallel (4 x DC and 1 x AC) at these SICHARGE D compact chargers.



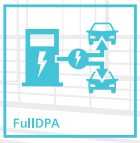
Power modules can be easily installed in a couple of hours



*coming soon

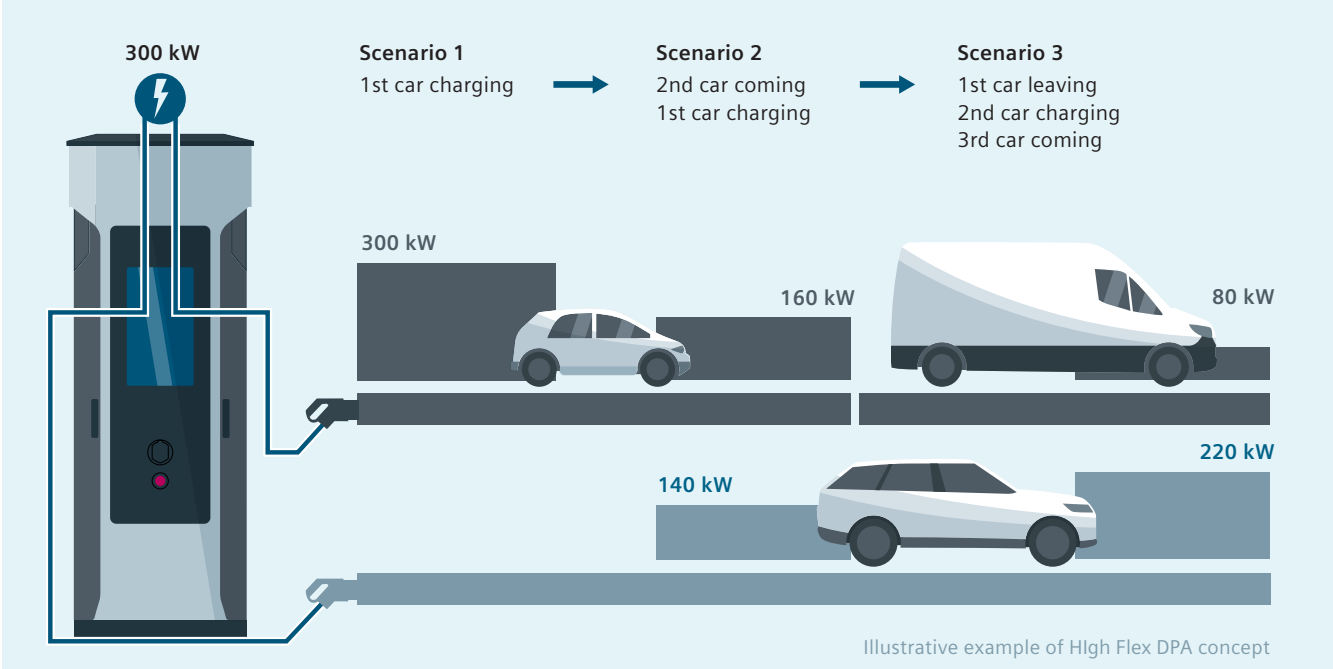
Dynamic power allocation (DPA)

Intelligent and dynamic distribution of charging power



With SICHARGE D, the charging process automatically adapts to the connected vehicle(s) to fulfill two goals. It always seeks to use the full charging power available, and to use it based on the actual power request of each car(s) connected.

In this way, either the entire charging capacity can be used on one vehicle, or it can be distributed to several vehicles based on their demand. Because the power demand is dynamic during the charging process, the appropriate distribution of charging power by SICHARGE D minimizes the charging times for all connected EVs.



Illustrative example of HIgh Flex DPA concept

Electric vehicles with high charging capacity can consume up to 300 kW on any DC outlet, depending on configuration.

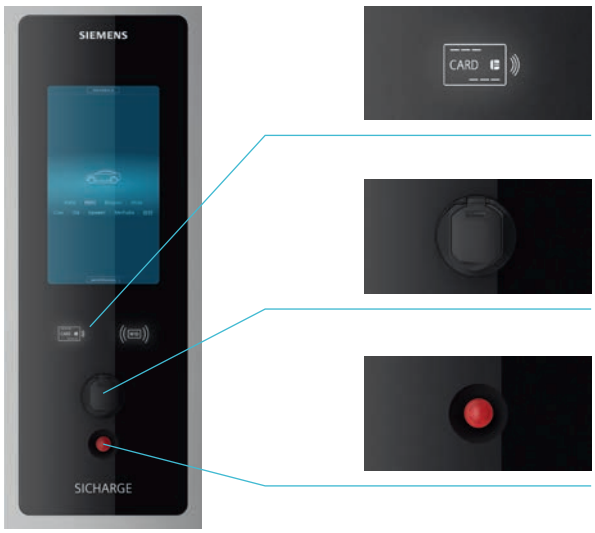
In case two vehicles are charging in parallel, the available power will be automatically shared according to their individual demand, optimizing the charging time.

SICHARGE D
Technical data

SICHARGE D		
Charger delivered with total DC power	160 - 300 kW in 20 kW steps	
Upgradeability	up to 300 kW	
Dynamic power allocation (DPA)	Low Flex: demand-based equal power distribution High Flex: higher flexibility in demand-based power allocation	
Operating specifications		
Outlet options	Standard: DC 1 x CCS2 and 1 x CHAdeMO – alternatively 2 x CCS2 Optional: AC Type 2 socket (with flap and shutter)	
Interface for additional dispensers* (parallel charging)	–	2 x DC
Touchscreen and LEDs	Full-color 24" touchscreen with adaptable position of user interface (Barrier-free acc. to DIN EN 301549); status LED per outlet	
Protection rating	IP54, IK10 (including display)	
Ambient conditions	Operating temperature –25° C...+55° C < 95% relative humidity non-condensing; operating altitude ≤ 2,000 m without derating	
Electrical protection	RCD and surge protection. Overvoltage category III, DIN EN 60664-1	
THDi	< 5%	
Power factor	> 0.99 at full load	
Efficiency	> 95.5% rated, > 96% peak	
Operating noise level	< 65 dB @ 5 m, full load (silent mode: < 50 dB @ 5 m, configurable times e.g. for day and night)	
Grid information		
Network type	TN-C, TN-S, TN-C-S or TT	
AC input voltage	400 V AC (±10%)	
Frequency range	45...55 Hz	
DC outlet		
Max. current at charger's outlet	CCS2: 1 x 250 A / 400 A peak (air-cooled cable), 1 x 500 A (liquid-cooled cable) CHAdeMO: 1 x 125 A / 200 A	
Output voltage range	150 – 1,000 V DC	
General specifications		
Socket footprint (WxD) / Dimensions (HxWxD)	680 x 620 mm / 2,300 x 845 x 820 mm	
Backend connectivity	OCPP 1.6j+	
Charge controller	EcoG OS	
Remote management	Remote access, over-the-air (OTA) software updates	
RFID	MIFARE ISO/IEC 14443 A/B, ISO/IEC 15693, Legic Prime, Legic Advant	
Authorization/payment	RFID, PIN Code, QR Code + smartphone, credit card (on request)	
Network connection	Ethernet 10/100 Base; GSM / GPRS / UMTS / LTE	
Norms and standards		
CE-certified	Yes	
Safety and charging standard	IEC 61851-1, IEC 62477-1, IEC 62311, EN IEC 63000	
EMC	EN 61000-6-2 (Immunity, Industrial, Class A), IEC 61851-21-2 (Emission, Class A), Class B optional	
EV communication	ISO 15118, DIN SPEC 70121, CHAdeMO 1.2	
Connector	DC: CCS Combo 2 cable acc. to IEC 61851-23, IEC 62196-3 (Mode 4, Type 2) DC: CHAdeMO 1.2, JEVS G105 (Mode 4, CHAdeMO) AC: IEC 61851-1, IEC 62196-2, (Mode 3, Type 2)	

*coming soon

Flexible configuration options



Credit-card terminal

AC socket

Emergency button

This is a selection of configuration options

Configuration options	
AC socket	Additional 22 kW AC Type 2 socket
Incoming AC meter	AC meter for measuring total power consumption
AC meter for AC outlet	AC meter for measuring the consumption at the AC outlet
DC meter for DC outlet	DC meter per outlet optional acc. to German calibration law (ERK*)
Credit-card payment	Two options at choice: integrated contactless terminal or terminal with PIN-pad, on request
Additional safety pack	Additional fuses on the DC power trains and an emergency stop button on the housing
Extended temperature range	Extention of temperature range down to –35° C on request
Integration test of new backend system	SICHARGE D can be flexibly connected to any backend according to OCPP 1.6J+ On your behalf, we can also configure and test the connection to a previously unconnected backend
Configuration and communication test	Each SICHARGE D is 100% tested in the factory. Optionally, we can also perform a customer-specific configuration, including SIM card and communication test to backend
Noise level parameterization	Depending on local requirements (in sensitive areas like hospitals, hotels, residential dwellings) the charger noise level can be parameterized for day and/or night mode
Customer-specific branding	Customized foliation patterns and design can be created using templates to support your individual branding, on request

Configuration options in your region may vary; please contact your Siemens representative for more information

*ERK certification in progress

More than charging

Experience peace of mind

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

Manage your charging equipment with Care and Care Plus packages as part of our digital connected services.

Care
The basic Care package is included during the warranty period and can be extended by subscription.
It ensures that firmware updates keep your charger 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 more with our Care Plus package. Your charger will be proactively monitored and analyzed by our operation center, and you will receive priority delivery of firmware updates.

Today's solution for the challenges of tomorrow

Benefits at a glance

Dynamic and scalable

- Modular and scalable power
- Upgradeable up to 300 kW
- Dynamic power allocation
- Parallel charging

User-friendly

- Intuitive multi-language 24" touchscreen with adaptable height
- Prepared for value-adding marketing content
- Space-saving

Efficient and grid-friendly

- Best-in-class efficiency (up to 96 percent)
- High short-circuit withstand capability
- Low harmonic distortion (THDi < five percent)

State-of-the-art and future-proof

- Upgradeable to latest standards
- Highest voltage up to 1,000 V
  Highest current up to 1,000 A
- Open OCPP communication

Confidence

- High availability
- Industry-leading cybersecurity and functional safety
- Excellent serviceability

Robust and reliable

- Outdoor protection IP54
- High vandalism protection (IK10)
- Long-lasting components

Published by
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Article No. SIDS-B10053-00-7600
TH 260-200223 BR 0221
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