

eCharger Charging Station DC *premium*

120 – 300 kW

When Things Have to Get Done Fast

Whenever extremely short charging times are required, our particularly powerful eCharger charging station DC *premium* is the first choice. The housing, which is available in various colors, is made of robust stainless steel and offers special protection against vandalism. This makes our charging station perfect for DC charging in semi-public or public areas. The modular and maintenance-friendly design

contributes to this, as do the numerous payment functions via bank and credit card or app. The same applies to the charging power, which can be scaled in 30 kW steps from 120 to 300 kW. An output voltage range of 150 V to 1000 V makes our eCharger charging station DC *premium* particularly future-secure.



Easy to Use

15 Inch Multitouch Screen
(IP67, PCAP)



Future-Proof

Output Voltage Range
from 150 V to 1000 V



Scalable

In 30 kW steps from 120 kW to
300 kW Charging power



Maximum Safety

Permanent DC insulation
monitoring, on the AC end
protected by RCD (type B)



At a Glance

Maximum 500 A across the entire output voltage range

At least OCPP 1.6 JSON via Ethernet interface or mobile modem

Modular, easy-to-maintain design, updateable

Low standby consumption

Quality components by Phoenix Contact

Intelligent, continuous energy allocation to charging points

Communication according to DIN SPEC 70121



S.A.F.E. VTS eCharge is a member of S.A.F.E. e. V. (Software Alliance for EMobility). The goal of the association is the creation of a uniform solution to ensure the requirements for statutory calibration laws for charging equipment in Germany. The main focus is the development of transparency software which determines the correctness of acquired values during the charging process. The digital signatures of the measured values are reviewed in order to protect data against possible manipulation.

eCharger Charging Station DC *premium*

120 – 300 kW

Technical Data

General	
Number of Charging Points	2 charging points for simultaneous DC charging (additional DC charging socket with 32 A available upon request)
Charge Mode	Mode 4 DC (mode 3 AC upon request)
Option 1	2 x CCS type 2 plug with DC charging cable 3.5 m
Option 2	2 x CCS type 2 plug with DC charging cable 5 m, optionally with cable management system
Payment System	Payment by credit / debit card and app (both possible with the eLoaded backend)
Configuration and Diagnostic Analysis	Configuration and diagnostics menu shown on the display
Vehicle-to-Grid Communication	Active power controllable by grid operator via Ethernet or Modbus (ripple control receiver prepared)
Climate Management	Automatic temperature monitoring

Mechanical Design	
Housing Material	Stainless steel
Surface	Surface brushed or powder-coated, standard RAL 9016 or RAL 7016, desired color at extra charge, as well as additional foil sticking optionally possible
Ext. Dimension (h x w x d), Weight	2.075 x 1.045 x 806 mm (without cable), max. 700 kg

Electrical Design	
Input Voltage	400 V, 3-phase, 50 Hz
Feed-in /Connection	Double feed Cable cross section 35 - 150 mm ²
Input Power	170 – 410 kW, 250 – 600 A AC
Charging Capacity DC	120 – 300 kW at max. 500 A, scalable in 30 kW steps
Protection	Circuit breaker (MCB) type B 63 A, DC- permanent insulation monitoring
Overvoltage Protection	Especially for electromobility: SPD Class 1+2, Type 1+2 according to DIN EN 61643-11
Electric Meter DC	MID-compliant direct current billing meter according to VDE-AR-E-2418-3-100, on request billing data records signed in compliance with calibration law with charging data and charging data history in connection with the meter display in compliance with calibration law
Standby Consumption	60 W at DC 120 kW (185 W with lighting switched on)
Efficiency	> 95 % at 100 % DC charging power with 400 A

Interfaces, Protocols	
Communication / Management	Open Charge Point Protocol OCPP 1.6 JSON or higher, via Ethernet or mobile modem, Modbus TCP and RTU, CAN
Ethernet Connection	Two tool-free patch panels (Phoenix Contact)
Cellular Modem	4G/2G, available on the controller by default
RFID	Supports all 125 kHz, 134.2 kHz and 13.56 MHz technologies, including NFC

Conformity	
Certification, Protection Class	CE, IP 54
Polution Level, Shockproof	Class 3, IK10 according to IEC 62262
EU Directives	2014/35/EU (Low Voltage Directive), 2011/65/EU (RoHS), 2017/2102 (RoHS2), 2012/19/EU (WEE), 1907/2006 (REACH), 2014/30/EU (EMC Directive)
Charging and Security Standards	DIN EN IEC 61851-1, -23, DIN EN IEC 62196, DIN EN IEC 62477-1, DIN EN IEC 611439-1, -7, DIN EN IEC 62311, DIN SPEC 70121
EMV	DIN EN IEC 61851-21-2 Immunity requirements suitable for category A industrial environment

Additional Options	
Advertising on display, mobile modem with antenna and SIM card, base, counter-protection, assembly, commissioning, testing	