

eCharger Charging Station DC *premium*

120 kW

When Things Have to Get Done Fast

The high-performance eCharger DC *premium* charging station is the first choice whenever you are looking for very short charging times. The housing is available in a variety of versions made of robust stainless steel providing special protection against vandalism. This makes our charging station the perfect choice for DC charging in semi-public or public areas. The modular and low-maintenance design

combined with numerous payment functions by credit card or App (eLoaded) complement the features as well as the charging power scalable in 30 kW increments up to 120 kW. The output voltage range of 150 V to 1000 V makes our eCharger Charging Station DC *premium* a particularly future-proof product.



Easy to Use

15 Inch Multitouch Screen
(IP67, PCAP)



Future-Proof

Output Voltage Range
from 150 V to 1000 V



Scalable

In 30 kW Increments up to
120 kW Charging Capacity



Maximum Safety

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



At a Glance

Maximum 400 A across the entire output voltage range

OCPP 1.6 JSON via Ethernet interface or cellular modem

Modular, low-maintenance design, updatable

Automatic dehumidifier

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.

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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 4 m and wire rope cable clip system
Option 2	2 x CCS type 2 plug with DC charging cable 6 m and wire rope cable clip system
Payment System	App (freely selectable), RFID and credit card /debit card (EC card) reader together with App (eLoaded)
Configuration and Diagnostic Analysis	Via display
Vehicle-to-Grid Communication	Electric power output through network operator, controllable via Ethernet or Modbus (prepared ripple control receiver)
Climate Management	Temperature monitoring, automatic air dehumidifier

Mechanical Design	
Housing Material	Stainless steel (rustproof) or varnished steel sheet
Surface	Stainless steel with various surfaces, varnished steel sheets in different colours as well as additional vinyl applications (optional)
Ext. Dimension (h x w x d), Weight	2.075 x 1.046 x 806 mm (without cable), < 564 kg

Electrical Design	
Input Voltage	400 V, 3-phase, 50 Hz
Feed-in /Connection	Dual supply 2 x 125 A, terminal blocks with swivel lever locks (for further grinding) for continuously low contact resistance, dual, maximum cable cross section 95 mm ²
Input Power	170 kW, 250 A at DC charging output 120 kW und 400A
Charging Capacity DC	2 x 120 kW at maximum 400 A, scalable in 30 kW increments
Protection	LS circuit breaker (MCB) type B 63 A, constant DC isolation monitoring, RCD type B on the AC side
Overvoltage Protection	Specifically for electromobility: SPD Class 1+2, type 1+2 according to DIN EN 61643-11
Electric Meter DC	MID-conform direct current meter for billing according to DE-AR-E-2418-3-100, upon request with calibration law compliant signed billing records with charge data and charge history in connection with a calibration law compliant meter display
Standby Consumption	60 W at DC 120 kW (185 W with illumination switched on)
Efficiency	> 95 % at 100% DC charging output with 400 A

Interfaces, Protocols	
Communication / Management	OCPP 1.6 JSON open charge point protocol via Ethernet or cellular modem, MQTT, HTTP(S), Modbus RTU, CAN
Ethernet Connection	Two tool-free patch panels (Phoenix Contact)
Cellular Modem	4G/2G, auf dem Controller standardmäßig vorhanden
RFID	Supports all 125 kHz, 134.2 kHz as well as 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 (EMV 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 interference immunity requirements for charging with alternating current for environments except for living areas with private or shared transformer

Additional Options	
Advertisement on display, cellular modem with antenna and SIM card, pedestal, collision protection, assembly, commissioning, testing	