

eCharger Charging Station AC *premium*

2 x 22 kW

For Employees, Customers and Use in Public Areas

The modular designed eCharger Charging Station AC *premium* is the ideal choice for your powerful charging needs in semi-public or public areas. For example, in places with charging infrastructure for company's employees and customers or public charging spaces of an energy supplier. Numerous features like intelli-

gent load management or, upon request, various payment functions compliant with calibration law either via App or credit card (in connection with eLoaded) as well as several additional options turn the Charging Station AC *premium* into a perfect all-rounder.



User-Friendly

Multitouch display (4.3 inches) with live and history display of consumption data



Ecological

Vehicle to grid communication according to ISO/IEC 15118



Safe to Operate

Temperature management and automatic air dehumidifier



Easy to Maintain

Modular design, updatable hardware and software



At a Glance

Web-based management for configuration, diagnostic analysis and operation

MQTT and RESTAPI available

Charging area / load management for connected charging points

Connection and branch option for additional charging stations

Automatic reset, when defective vehicles are unplugged

Quality components by Phoenix Contact

Charging current infinitely variable from 6 – 32A

Large LED roof light with clearly visible "available / occupied" status

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Technical Data

General	
Number of Charging Points, Charge Mode	2 Charging points for simultaneous AC charging (in addition, via shock resistant socket (Schuko) upon request), mode 3
Option 1	2 x CCS type 2 plug with AC charging cable 4 m, spiral (32 A/480 V, IEC 62196-2), 1 x shock-proof socket 230 V/13.5 A (AC) (optional upon request)
Option 2	2 x AC infrastructure charging socket type 2 according to IEC 62196-2 (32 A/480 V), 1 x shock-proof socket 230 V/13,5 A (AC) (optional upon request)
Payment System	App (freely selectable), RFID and credit card /debit card reader (EC cards) together with App (eLoaded)
Load and Charge Management	Intelligent, continuous energy allocation to charging points
Web-based Management	Via browser for configuration, diagnostic analysis and operation (dashboard)
Vehicle-to-Grid Communication	According to ISO/IEC 15118, bidirectional upon request

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	1.800 x 350 x 350 mm (without roof light, without cable), < 115 kg

Electrical Design	
Feed-in / Connection	5-pole, terminal blocks with swivel lever locks (for further grinding) for continuously low contact resistance, maximum cable cross section of 35 mm ²
Input Power	52 kW, 80 A for simultaneous charging of 2 x type 2 and optional shock resistant sockets (Schuko)
Charging Capacity / Charg. Current	2 x 22 kW / infinitely adjustable from 6 to 32 A
Protection	LS circuit breaker (MCB) type B 32 A, DC and AC residual current monitoring with RCD type A 30 mA as well as via RCM 6 mA (DC) and RCM 30mA (AC)
Overvoltage Protection	Specifically for electromobility: SPD class 1+2, type 1+2 according to DIN EN 61643-11
Electricity Meter	MID-conform and digital signing, upon request with calibration law compliant signed billing records with charge data and charge data history in connection with the calibration law compliant steel display
Charging Controller	According to DIN EN IEC 61851 or optional according to ISO/IEC 15118 (optionally, each controller can be installed in combination with a cellular modem)
Standby Consumption	55 W at DC 120 kW (97 W with illumination switched on)
True Power Monitoring (Network Operator)	Via contacts for ripple control receivers as well as Ethernet and Modbus

Interfaces, Protocols	
Communication / Management	Open charge point protocol OCPP 1.6 JSON via Ethernet or cellular modem, MQTT, HTTP(S), Modbus TCP and RTU
Ethernet Connection	Two tool-free patch panels (Phoenix Contact)
Cellular Modem	Controller with cellular modem 4G/2G optional
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, DIN EN IEC 62196, DIN EN IEC 62477-1, DIN EN IEC 611439-1, -7, DIN EN IEC 62311, ISO/IEC 15118
EMV	DIN EN IEC 61851-21-2 immunity requirements for charging with alternating current (AC) for environments except living areas with private or common transformers

Additional Options	
Credit / debit card reader (EC cards) controller with cellular modem and antenna, SIM card, pedestal, hazard protection, assembly, commissioning, testing	