



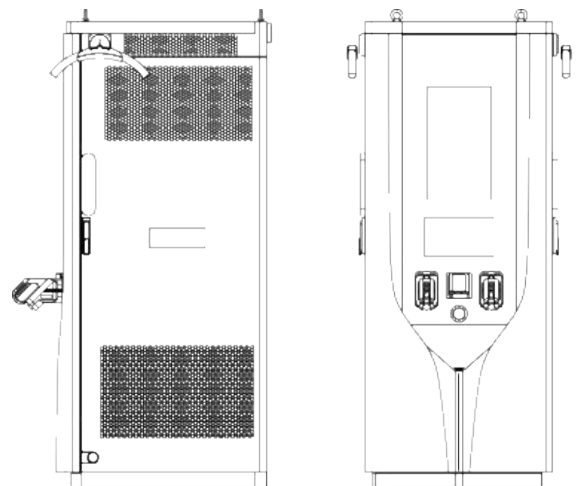
Product Overview

Smart DC Charger C7 is a barrier free, configurable, double outlet DC charger which is suitable for easy-access public parking environment. It consists of HMI Touch screen, power module, charger control unit, HPC DC charging cable. With compliance of OCPP 1.6J & 2.0.1, C7 is able to be configured/diagnosed remotely through internet connection via 4G/Ethernet.

Product Features

- **Barrier free**
The connector and HMI design comply with accessible regulation(DIN 18040-3). The Barrier free design and cable hanger makes it easy to serve all users.
- **High power & Silent**
C7-420kW is able to charge at voltage of 200-1000V, max.600A. The noise reduction design enables noise emission less than 60dB (20°C, from distance of 1m).
- **VAR value control**
With VPFC (variable power factor correction) function, C7 is able to manipulate the reactive power itself or compensate for the grid following the command of external load management device. (compliance of VDE 4100/4110)
- **Calibration law compliance**
To serve the various charging scenario, C7 is configurable to comply with PTB or LNE regulations.

Dimensions



800x900x1992 mm

Technical Specification

General features	Product Model	C7-420kW
	Power output	400/420kW
	Authorization	RFID/QR code/Credit card/ISO15118 'Plug & Charge'
	Dimensions	800x900x1992mm
	Weight	Approx. 680kg
	Housing material	Industrial alloy with weatherproof coating
	Installation	On ground, Indoor/ Outdoor
	HMI & Plug operation height	85-105cm
	Operation temperature	-35°C — 50°C
	Noise	< 60dB at distance of 1m (steerable via preset silence mode sent by backend)
	Humidity	≤ 95% No condensing
	Altitude	≤ 2000m

Electrical features	Product Model	C7-420kW
	RFID/NFC	ISO/IEC 14443A/B, 14443-4A/B, M1(S50/70) card
	Network adapter	Cellular(3G/4G/LTE), Ethernet RJ-45; Dual 4G channel connection supported
	HMI	13.3 inch 1920x1080 LCD Touch Screen
	Advertisement	21.5 inch 1920x1080 LCD Screen
	External control system	Modbus TCP Client supported
	OCPP protocol	OCP1.6J/ OCPP2.0.1 (option available from 2024)
	THD	< 5% (steerable via central control on site)
	Power efficiency	≥ 94%
	Metering	DC Meter (with PTB or LNE compliance) AC Meter (for input measurement)
	VAR value control	+0.9(inductive) ~ -0.9(capacitive) (optional)

Input Output	Product Model	C7-420kW	
	Input voltage	3P+N 400V ±15%	
	Frequency	50Hz/60Hz	
	Connectors	CCS2 (Liquid cooled cable)	CCS2 (Air cooled cable)
	Max. output power	240kW@400V 300kW@500V 420kW@700V	200kW@400V 300kW@600V 400kW@800V
	Max. output current Peak value	600A	500A
	Max. output current Continuously	500A	250A
	Output voltage range	200-1000V	200-1000V
	Power allocation	150-30-30-30-30-150kW (30kW step, 420kW in total) 120-40-40-40-40-120kW (40kW step, 400kW in total)	
	Cable length	5.5m	
	Cable cooling	Liquid cooling	

Safety Security	Product Model	C7-420kW
	Compliance	IEC 61851-1:2011, IEC 61851-23:2014, IEC 61851-24:2014, IEC 62196-3:2014, DIN 18040-3, ISO 15118, DIN 70121-2014
	Compliance	Over/Under voltage, Short circuit, Reverse connection, Grounding, Door switch, Smoke/Water ingress, Tilting.
	Ingress protection	IP54
	Impact resistance	IK10
Cyber security	TLS 1.3	

More Information



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