

C7 Ultra-Fast Charger

Up to **400 kW**



Product Overview

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, C7 is able to be configured/diagnosed remotely through internet connection via 4G/LTE/Ethernet.

Product Features



Barrier-free Design:

- The connector and HMI design of C7 complies with accessible regulation (DIN 18040-3).
- The barrier-free design makes it user-friendly and easily accessible to everyone, including wheelchair users.



High Power Output:

- C7 is capable of delivering up to 400 kW power at max 600A, shortening charging time significantly.
- Adapted to various businesses, the mechanically compatible design provides reliable high-power DC charging experience at 200-1000V.



Integrated Cable Management:

The integrated cable management system ensures that various types of vehicles can be reached easily and flexibly, keeping the carpark safe and neat.



Modern and Powerful Presence:

- C7 has not only an HMI display with simple and intuitive user interface, but also a large 1080P screen for additional advertising.
- Equipped with robust housing and moving LED lights, it looks modern and distinctive.



Easy Installation and Maintenance:

- With a compact size of 800x900x1992mm, it is flexible to install C7 in a variety of charging locations.
- Native support to OCPP and secure OTA updates ensure easy maintenance and resilience of the charging system.



Customizable Branding:

- Easy branding and color customization helps your brand stand out.
- Innovative LED lighting indicates availability of charger and the state-of-charge.
- Your brand visibility can be boosted with customized LED color and branding.

System Overview



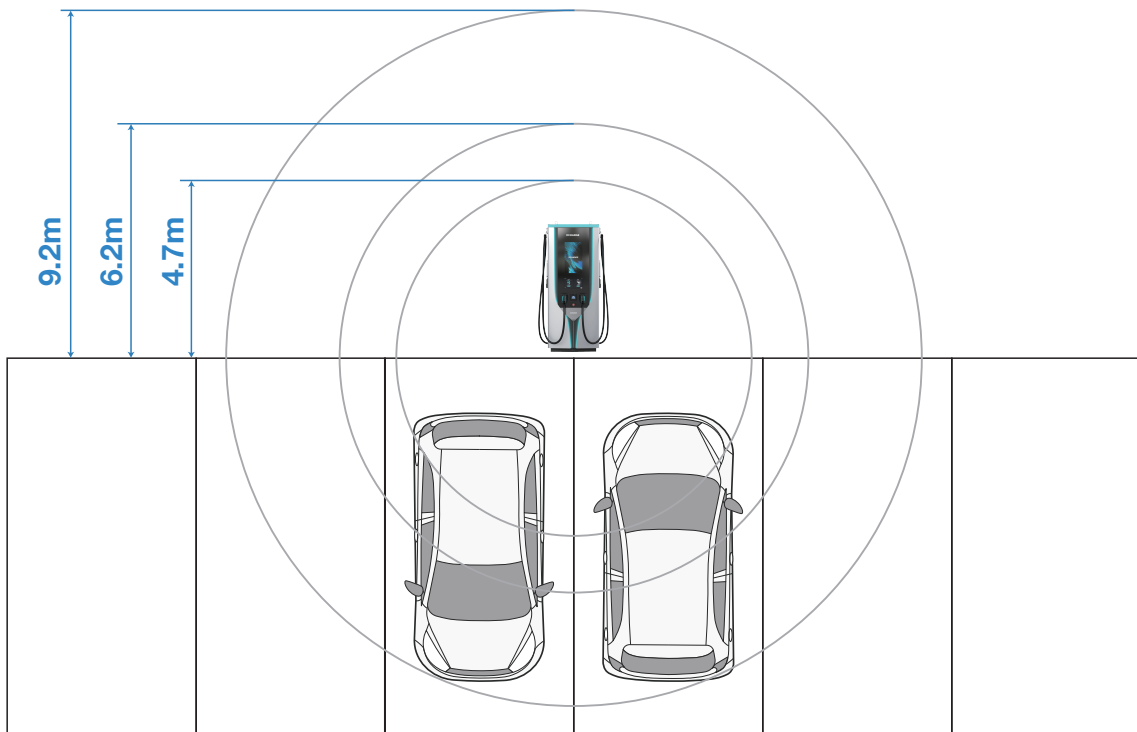
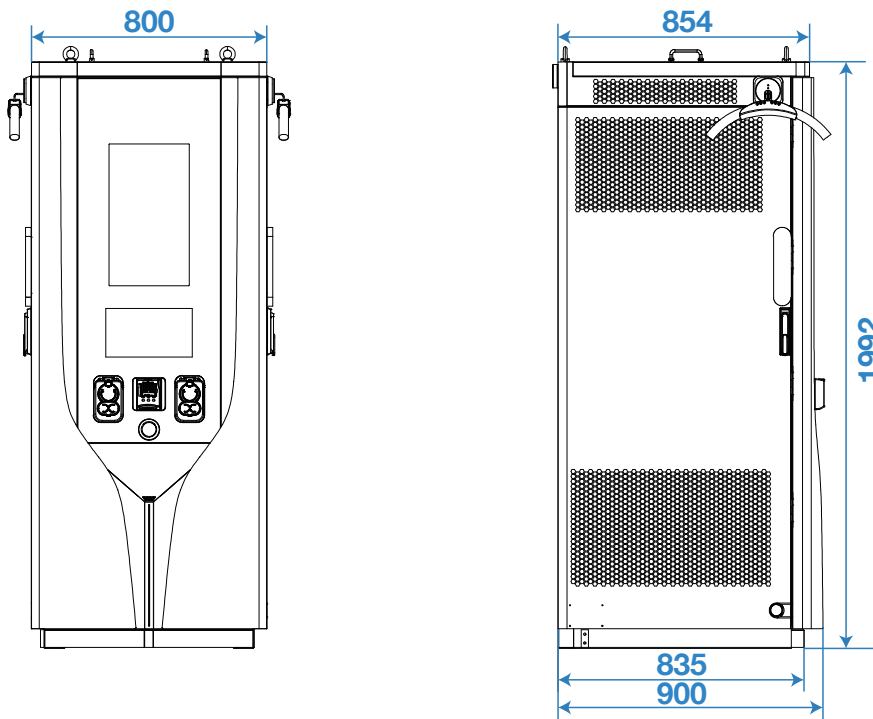
- 1 Interoperability & safety**
Support OCPP 1.6J/ OCPP2.0.1
(option available from 2024)
- 2 Dual 4G channel**
Support independent diagnosis through 2nd channel.
- 3 21.5-inch Full HD screen**
For picture/video advertising
- 4 13.3-inch HMI touchscreen**
With intuitive user interface
- 5 Calibration law compliance**
To meet various market requirements, C7 is configurable to comply with PTB (DACH or GER) and LNE (FR) regulations
- 6 Various Authentication devices**
Support RFID/QR code/Credit card/ ISO15118 “Plug & Charge”
- 7 VAR value control (optional)**
With VPFC function, C7 is able to manipulate the reactive power. (VDE 4100/4110)
- 8 High power & Less noise**
C7 is able to charge at voltage of 200-1000V, max.600A.
The noise reduction design enables noise emission less than 70dB (20°C, from distance of 1m).
- 9 Barrier-free design**
The connector and HMI design comply with accessible regulation (DIN 18040-3).
The barrier-free design and cable hanger make it easy to serve all users.

Technical Specification

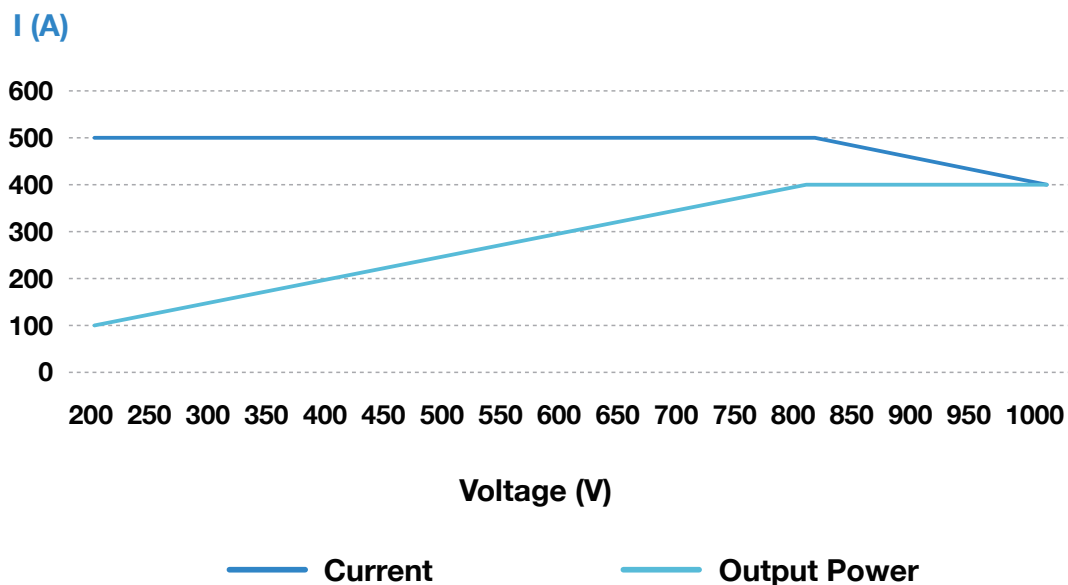
Product Model		C7 Ultra-Fast Charger		
General Features	Maximum Power Output	400kW		
	Authorization	RFID/QR code/Credit card/ISO15118 'Plug & Charge'		
	Dimensions	800x900x1992mm		
	Weight	Approx. 680kg		
	Housing Material	Industrial alloy with weatherproof coating		
	Installation	On ground, Indoor/ Outdoor		
	HMI & Plug Operation Height	85-105cm		
	Operation Temperature	-35°C — 50°C		
	Noise	< 70dB at distance of 1m (steerable via preset silence mode sent by backend)		
	Humidity	≤ 95% No condensing		
	Altitude	≤ 2000m		
	Electrical Features	RFID/NFC	ISO/IEC 14443A/B, 14443-4A/B, M1(S50/70) card	
Network Adapter		Cellular(3G/4G/LTE), Ethernet RJ-45		
HMI		13.3 inch 1920x1080 LCD Touch Screen		
Advertisement		21.5 inch 1920x1080 LCD Screen		
External Control System		Modbus TCP Client supported		
OCPP Protocol		OCPP 1.6J/ 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	Input Voltage	3P+N 400V ±15%		
	Frequency	50Hz/60Hz		
	Connectors	CCS2 (Liquid cooled cable)	CCS2 (Air cooled cable)	
			240kW@400V	200kW@400V
	Max. Output Power		360kW@600V	300kW@600V
			400kW@700V	400kW@800V
	Max. Output Current Peak Value	600A	500A	
	Max. Output Current Continuously	500A	250A	
	Output Voltage Range	200-1000V	200-1000V	
Power Allocation	120-40-40-40-40-120kW (40kW step, 400kW in total)			
Cable Length	5.5m			
Cable Cooling	Liquid cooling			
Safety Security	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		
	Safety Protection	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		

Mechanical Dimensions

Unit: mm



Output Power Curve



MORE INFORMATION:

XCHARGE Europe GmbH
Borsteler Bogen 27B, 22453 Hamburg
eu@xcharge.com | T: +49 40 57 12 88 55
www.xcharge.com/global/en/