XCHARGE

EV Charging Solution Provider

C7 Ultra-Fast Charger

Up to 480kW



Product Overview

The C7 Ultra-fast Smart DC Charging Station features a barrier-free, dual-outlet design optimized for public parking environments. Equipped with an HMI touchscreen, high-efficiency power modules, an intelligent control system, an integrated cable management system, and HPC liquid/air-cooled charging cables, it fully complies with OCPP 1.6J and 2.0.1 protocols. Supporting 4G/5G/Ethernet connectivity, it enables remote diagnostics, configuration, and seamless OTA updates.

Product Features

Barrier-free Design:

- The connector and HMI design of the C7 adhere to accessibility regulations (DIN 18040-3).
- The barrier-free design ensures it is user-friendly and easily accessible to all individuals, including those using wheelchairs.

Modern and Powerful Presence:

- The C7 features an HMI display with a simple, intuitive user interface, complemented by a large 1080p screen for additional advertising.
- Its robust housing and dynamic LED lighting give it a modern, distinctive appearance, making it both functional and visually striking.

Easy Installation and Maintenance:

- With its compact size of 800x900x1992mm, the C7 can be easily installed in a variety of charging locations.
- Native support for OCPP and secure OTA updates simplify maintenance and enhance the system's resilience.

High Power Output:

- The C7 is capable of delivering up to 480 kW of power at a maximum of 600A, significantly reducing charging time.
- Its versatile, mechanically compatible design ensures a reliable high-power DC charging experience across a range of 200-1000V, making it suitable for various business applications.

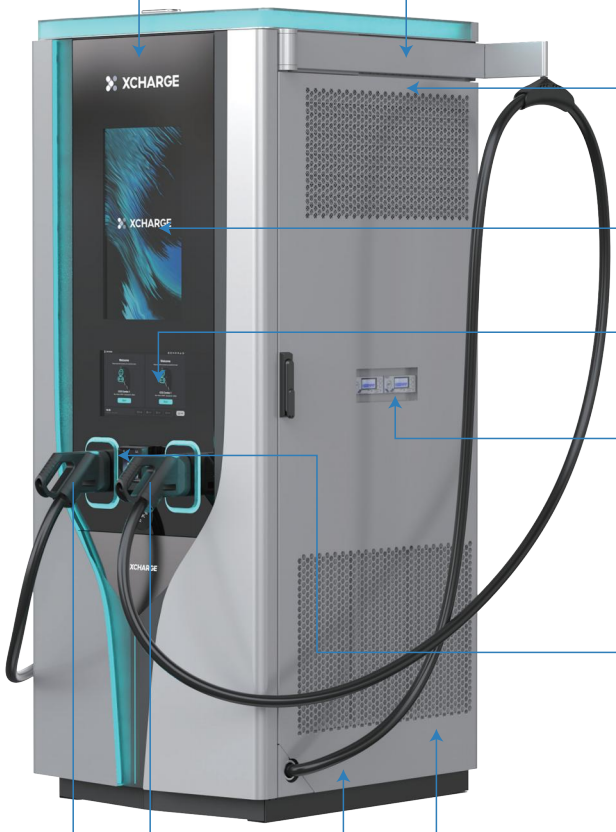
Integrated Cable Management:

- The integrated cable management system ensures easy and flexible access to various types of vehicles, while keeping the parking area safe and organized.

Customizable Branding:

- The C7 offers easy branding and color customization to help your brand stand out.
- Innovative LED lighting not only indicates charger availability and state-of-charge but also enhances brand visibility with customizable LED colors and branding options.

System Overview



1 Interoperability & Safety
Support OCPP 1.6J/ OCPP2.0.1

2 Cable Management System
Flexible charging access up to 8.7m while keeping safe and organized space.

3 Dual Cellular Network
Support independent diagnosis through second channel.

4 21.5-inch Full HD Screen
For picture/video advertising

5 13.3-inch HMI Touchscreen
With intuitive user interface

6 Calibration Law Compliance
To meet various market requirements, C7 is configurable to comply with PTB (Germany) and LNE (France) regulations

7 Various Authentication Devices
Support RFID/QR code/Credit card/ Auto-charge/ISO15118 “Plug & Charge”

8 VAR Value Control (Optional)
With VPFC function, C7 is able to manipulate the reactive power. (VDE 4100/4110)

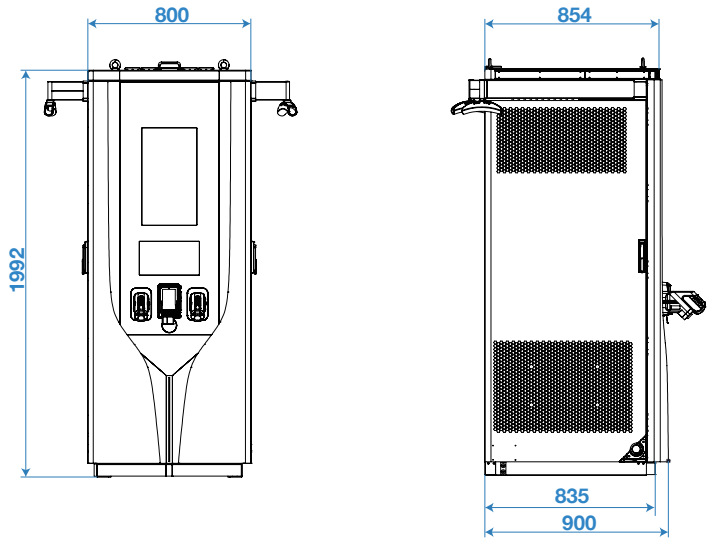
9 High Power Ultra-fast Charging Experience
C7 is able to charge at voltage of 200-1000V, max.600A.

10 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.

Mechanical Dimensions

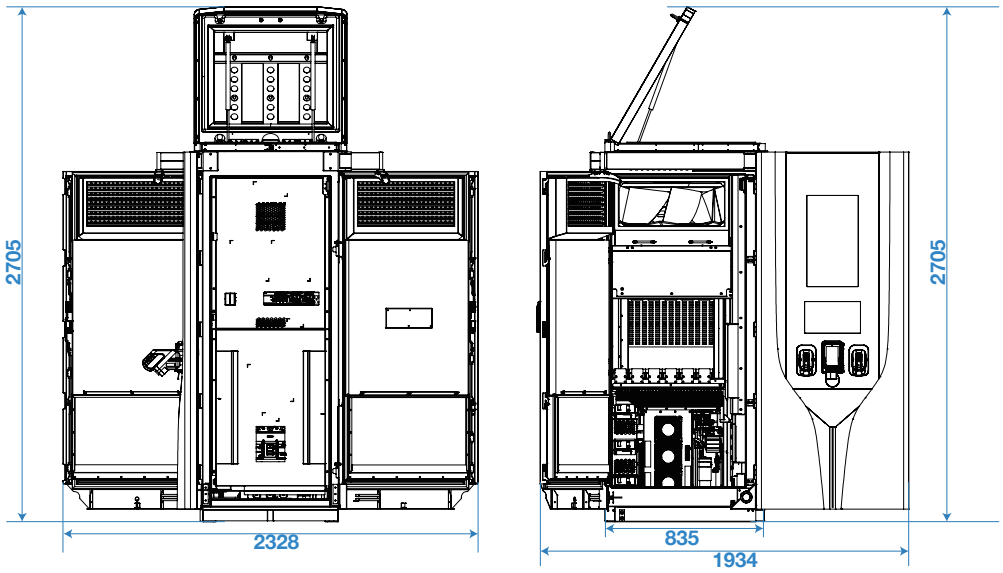
Door closed:

Unit: mm



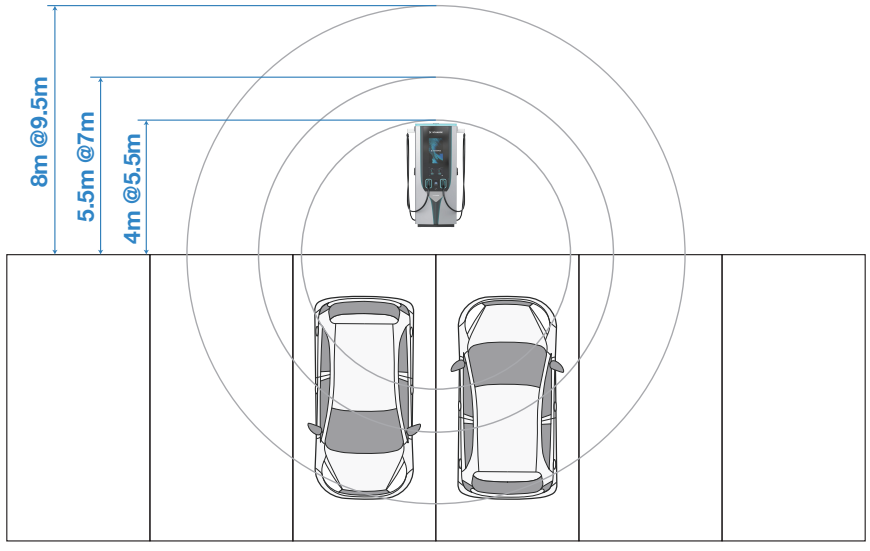
Door Opening Size:

Unit: mm



Cable Reach:

Unit: m



Technical Specification

	Product Model	C7 Ultra-Fast Charger			
General Features	Maximum Power Output	480kW			
	Authorization	RFID / QR code / Credit card / Auto-charge / ISO15118 “Plug & Charge”			
	Dimensions	800x900x1992mm			
	Weight	Approx. 800kg			
	Housing Material	Industrial alloy with weatherproof coating			
	Installation	On ground, Indoor/ Outdoor			
	HMI & Plug Operation Height	85-105cm			
	Operation Temperature	-25°C ~ 50°C			
	Noise Level @ 3 m	**120 kW**	**240 kW**	**360 kW**	**480 kW**
		48.2 dB(A)	49.6 dB(A)	60.7 dB(A)	61.4 dB(A)
	Humidity	≤ 95% No condensing			
	Altitude	≤ 2000m			
Electrical Features	RFID/NFC	ISO/IEC 144443A/B, 144443-4A/B, M1(S50/70) card			
	Network Adapter	Cellular(4G/5G), 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			
	Input Current THD (THDi)	<3% under nominal operating conditions			
	Efficiency	Typical efficiency >96%, with peak efficiency up to 97%			
	Metering	DC Meter (with PTB or LNE compliance) AC Meter (for input measurement)			
	VAR Value Control	+0.9(inductive) ~ -0.9(capacitive) (optional)			
	RCA (Optional)	Type A + Integrated 6 mA DC Leakage Detection			
Input & Output	Input Voltage	3P+N 400V ±10%			
	Frequency	50±1Hz			
	Connectors	**CCS2 (Liquid cooled cable)**		**CCS2 (Air cooled cable)**	
	Max. Output Power	240kW@400V		200kW@400V	
		360kW@600V		300kW@600V	
		480kW@800V		400kW@800V	
		480kW@ 960V		480kW@960V	
	Max. Output Current Peak Value	600A		500A	
	Max. Output Current Continuously	500A		250/375A	
	Output Voltage Range	200-1000V		200-1000V	
	Power Allocation	480kW:160-40-40-40-40-160			
	Cable Length	5.5/7/9.5 m			
	Cable Cooling	Liquid-cooled / air-cooled			
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, ISO3744:2010			
	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			

MORE INFORMATION:

XCHARGE Europe GmbH
Heselstücken 18 22453 Hamburg
eu@xcharge.com | T: +49 40 57128593
www.xcharge.com

XCHARGE
EV Charging Solution Provider