

CP4500 3-Phase Plug-In AC Public Charging Station

Specifications and Ordering Information



CP45x1-XX



CP45x1-DE

Built with the latest ChargePoint® technology, this new range of charging solutions is designed for public electric vehicle (EV) charging as a facility in cities and car parks. ChargePoint cloud services make managing public stations effortless with a graphical online dashboard that offers instant insights. Automatic “over-the-air” upgrades deliver the latest features that make charging simple for EV drivers.

- + Advanced metering capabilities allow for configurable pricing using ChargePoint cloud services
- + Integrated utility service panel enables direct grid connection without additional hardware: a perfect solution for on-street parking and public sites
- + Driver-friendly user interface with full-motion colour display informs drivers and supports dynamic updates of customised, branded video content
- + Authentication and payment options include RFID, NFC, phone call to activate, web, mobile app and tap to charge (Apple and Android devices)
- + Single port stations can be upgraded to dual port stations without requiring additional electrical services
- + Durable high-strength construction and hardened electronics withstand climate extremes and physical abuse
- + Charges every EV and plug-in hybrid EV; tested with Mercedes C350e/GLC350e, Renault Zoe, Volvo XC90 T8, BMW i3, Nissan LEAF, Tesla Models S and X, Kia Soul, Hyundai Ioniq, Volkswagen Passat/Golf GTE and many others

Superior Support Options

- + Stations come with 1 year of ChargePoint Assure at no charge for qualified installations
- + Parts, labour and orchestration of repairs by expert support specialists
- + Proactive monitoring, regular reports and unlimited changes to station policies
- + One business day response to requests and 98% annual uptime guarantee
- + 24/7 driver support

Ordering Information

Specify model number followed by the applicable code(s). The order code sequence is: **Model-Options**. **Software, Services** and **Misc** are ordered as separate line items.

Hardware

Description		Order Code
Model	Single Port 32 A Public Station with Type 2 Socket and Country-Specific Grid Connection (max 22 kW per port)	CP4511-xx ¹
	Dual Port 32 A Public Station with Type 2 Sockets and Country-Specific Grid Connection (max 22 kW per port)	CP4521-xx ¹
	Single Port 32 A Public Station with Type 2 Shuttered Socket and French Grid Connection (max 22 kW per port)	CP4511-FR
	Dual Port 32 A Public Station with Type 2 Shuttered Sockets and French Grid Connection (max 22 kW per port)	CP4521-FR
	Single Port 32 A Public Station with Type 2 Socket and German Grid Connection (max 22 kW per port). Complies with VDE-AR-N 4102	CP4511-DE
	Dual Port 32 A Public Station with Type 2 Sockets and German Grid Connection (max 22 kW per port). Complies with VDE-AR-N 4102	CP4521-DE
Misc	Power Management Kit Universal Mounting Kit*	CP4500-PMGMT CP4500-UMK

*Note: The Universal Mounting Kit is compatible with any ChargePoint hardware product requiring a foundation before mounting to the ground.

¹ Substitute xx with the country code for stations that comply with country-specific grid connection requirements (NL, UK)

Software & Services

Description	Order Code
ChargePoint Commercial Cloud Plan	CPCLD-COMMERCIAL- <i>n</i> ²
Station Activation and Configuration	CPSUPPORT-ACTIVE
ChargePoint Assure	CP4500-ASSURE <i>n</i> ³
ChargePoint Site Validation	CPSUPPORT-SITEVALID

Note: All CP4500 stations come with 1 year of ChargePoint Assure coverage at no charge for qualified installations. Other conditions apply.
All CP4500 stations require a network service plan.

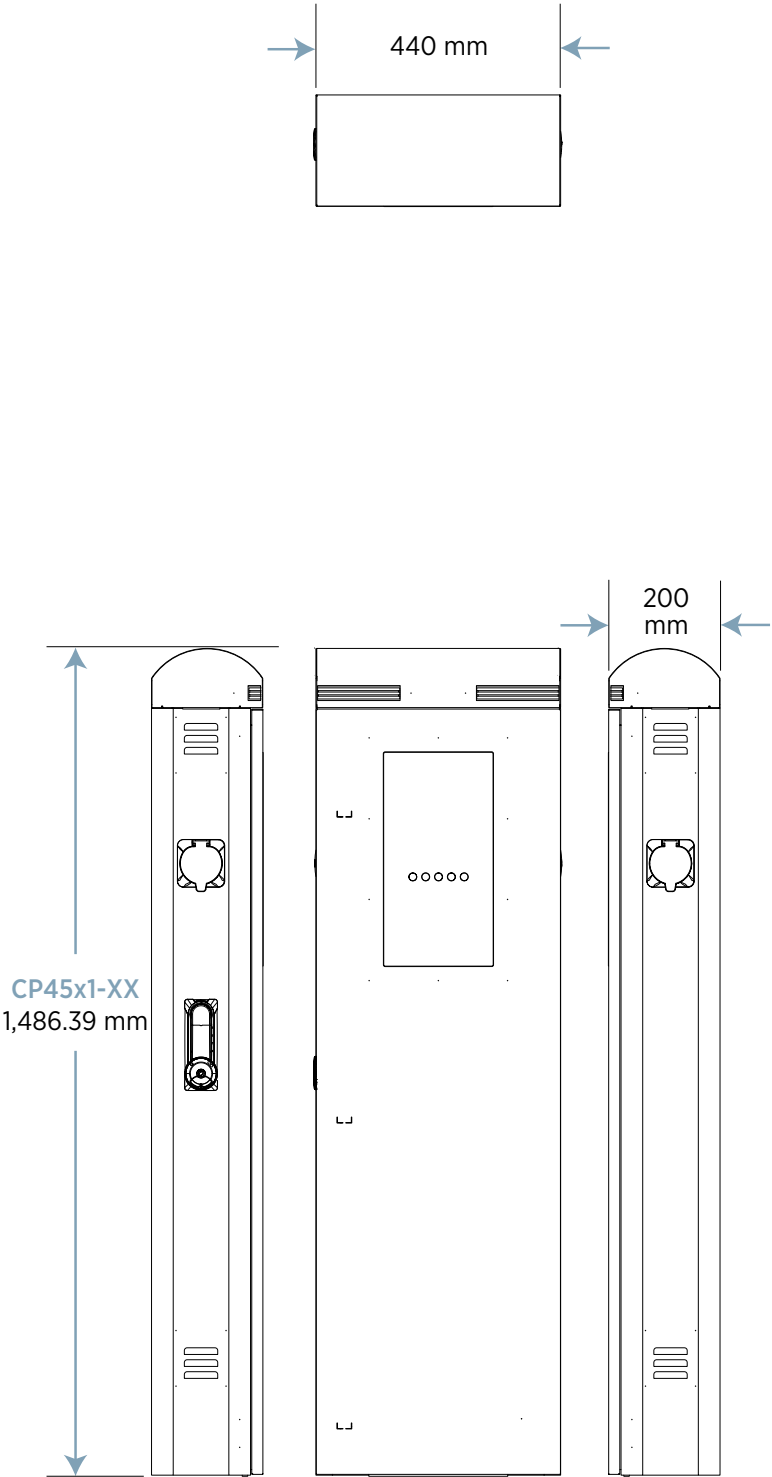
² Substitute n for desired years of service (1, 2, 3, 4, or 5 years).

³ Substitute n for the duration of the additional coverage (1, 2, 3, or 4 years).

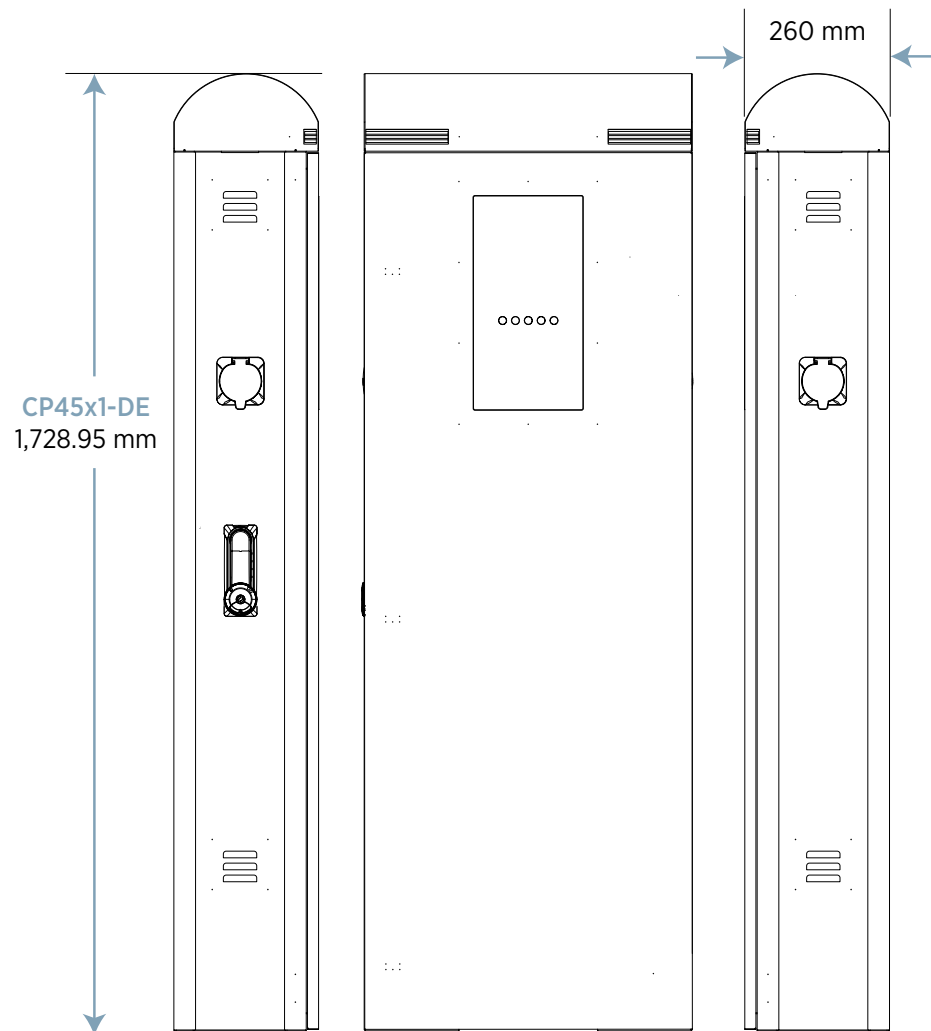
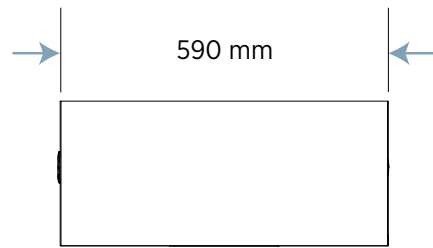
Order Code Examples

If ordering this...	...the order code is
Dual Port 32 A Public Station with Type 2 Shuttered Sockets and French Grid Connection	CP4521-FR
ChargePoint Commercial Cloud Plan, 3 Year Subscription: Includes Network Connection, Ongoing Station Software Updates and Station Inventory	CPCLD-COMMERCIAL-3
ChargePoint Site Validation	CPSUPPORT-SITEVALID
Station Activation and Configuration by ChargePoint Support	CPSUPPORT-ACTIVE
2 Additional Years of Assure Coverage	CP4500-ASSURE2
Single Port 32 A Public Station with Type 2 Socket and German Grid Connection. Complies with VDE-AR-N 4102	CP4511-DE
ChargePoint Commercial Cloud Plan, 3 Year Subscription: Includes Network Connection, Ongoing Station Software Updates and Station Inventory	CPCLD-COMMERCIAL-5
ChargePoint Site Validation	CPSUPPORT-SITEVALID
4 Additional Years of Assure Coverage	CP4500-ASSURE4

CP45x1-XX



CP45x1-DE



Specifications

Electrical Input	Single Port			Dual Port		
	Input Current	Input Power Connection	Required Service Panel Breaker	Input Current	Input Power Connection	Required Service Panel Breaker
Circuit Shared* 44 kW	n/a	n/a	n/a	3Ø 63 A	One independent 3Ø 63 A branch circuits	63 A 4 pole
Standard 44 kW	n/a	n/a	n/a	3Ø 32 A x 2	Two independent 3Ø 32 A branch circuits	32 A 4 pole x 2
Circuit Shared* 22 kW	n/a	n/a	n/a	3Ø 32 A	One 3Ø 32 A branch circuit	32 A 4 pole
Power Select 22 kW	3Ø 32 A	One 3Ø 32 A branch circuit	32 A 4 pole	3Ø 16 A x 2	Two independent 3Ø 16 A branch circuits	16 A 4 pole x 2
Power Select 11 kW Circuit Shared*	n/a	n/a	n/a	3Ø 16 A	One 3Ø 16 A branch circuit	16 A 4 pole
Power Select 11 kW	3Ø 16 A	One 3Ø 16 A branch circuit	16 A 4 pole	n/a	n/a	n/a
Power Select 14.8 kW	n/a	n/a	n/a	1Ø 32 A x 2	Two independent 1Ø 32 A branch circuits	32 A 2 pole x 2
Power Select 7.4 kW Circuit Shared*	n/a	n/a	n/a	1Ø 32 A	One 1Ø 32 A branch circuit	32 A 2 pole
Power Select 7.4 kW	1Ø 32 A	One 1Ø 32 A branch circuit	32 A 2 pole	1Ø 16 A x 2	Two independent 1Ø 16 A branch circuits	16 A 2 pole
Power Select 3.7 kW	1Ø 16 A	One 1Ø 16 A branch circuit	16 A 2 pole	n/a	n/a	n/a
Service Panel RCD	Install guide provides guidance on use of panel RCD and MCB					
Wiring – Standard	5-wire (L1, L2, L3, N, Earth)			2 x 5-wire (L1, L2, L3, N, Earth)		
Wiring – Circuit Share	n/a			1 x 5-wire (L1, L2, L3, N, Earth)		
Station Power	8 W typical (standby), 15 W maximum (operation)					
Grid Connection	CP4500 complies with local EVSE grid connection requirements					
Input Phase Balancing*	To reduce grid asynchronicity when charging single phase cars, we support Phase Balancing for dual port stations at installation					

*Circuit Sharing or Phase Balancing requires the Power Management Kit (CP4500-PMGMT)

Electrical Output (Power ratings depend on installation configuration)	Single Port	Dual Port
Circuit Shared* 44 kW	n/a	22 kW (3Ø 400 V AC @ 32 A) x 2
Standard 44 kW	n/a	22 kW (3Ø 400 V AC @ 32 A) x 2
Power Select Circuit Shared* 22 kW	n/a	22 kW (3Ø 400 V AC @ 32 A) x 1 or 11 kW (3Ø 400 V AC @ 16 A) x 2
Power Select 22 kW	22 kW (3Ø 400 V AC @ 32 A) x 1	11 kW (3Ø 400 V AC @ 16 A) x 2
Power Select 11 kW Circuit Shared*	n/a	11 kW (3Ø 400 V AC @ 16 A) x 1 or 5.5 kW (3Ø 400 V AC @ 8 A) x 2
Power Select 11 kW	11 kW (3Ø 400 V AC @ 16 A) x 1	n/a
Power Select 14.8 kW	n/a	7.4 kW (1Ø 230 V AC @ 32 A) x 2
Power Select 7.4 kW Circuit Shared*	n/a	7.4 kW (1Ø 230 V AC @ 32 A) x 1 or 3.7 kW (1Ø 230 V AC @ 16 A) x 2
Power Select 7.4 kW	7.4 kW (1Ø 230 V AC @ 32 A) x 1	3.7 kW (1Ø 230 V AC @ 16 A) x 2
Power Select 3.7 kW	3.7 kW (1Ø 230 V AC @ 16 A) x 1	n/a

*Circuit Sharing or Phase Balancing requires the Power Management Kit (CP4500-PMGMT)

Functional Interfaces

Socket Type	IEC 62196-2 Type 2 (32 A)
LCD Display	145 mm (5.7 in) full colour, 640 x 480, 30fps full motion video, active matrix, UV protected
User Interface	Capacitive touch buttons
Card Reader	Tap to charge on Apple and Android devices Contactless credit/debit cards ISO 15693, ISO 14443, NFC, MIFARE
Locking Socket	Yes

Safety and Connectivity Features

RCD	30 mA, Type A
DC Fault Current Detection	Electronic, $I_{\Delta n}$ DC \geq 6 mA
Plug-Out Detection	Yes
Power Measurement Accuracy	According to MID requirements
Power Report/Store Interval	15 minute, aligned to hour
Wide Area Network	3G GSM

Safety and Operational Ratings

Enclosure Ratings	IP44, IK10
Safety Compliance	IEC 61851-1 (ed. 3.0, 2017), Renault Z.E. Ready 1.2b, LVD 2014/35/EU
Surge Protection	6 kV @ 3,000 A. In geographic areas subject to frequent thunderstorms, supplemental surge protection at the service panel is recommended.
EMC Compliance	EMCD 2014/30/EU, RED 2014/53/EU
Full Power Operating Temperature	-30°C to +50°C; output power derating may apply.
Storage Temperature	-30°C to +60°C
Operating Humidity	Up to 85% @ +50°C non-condensing
Non-Operating Humidity	Up to 95% @ +50°C non-condensing

ChargePoint, Inc. reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.






ChargePoint Network (Netherlands) BV
Gustav Mahlerplein 2
1082 MA Amsterdam, Netherlands
+31 (0)20-7997365

ChargePoint Germany GmbH
Unter den Linden 21
10117 Berlin, Germany
+49 (0)30 20924101
chargepoint.com

Contact Us

To order your ChargePoint CP4500 charging station:

-  Visit chargepoint.com
-  Call +31 (0)20-7997365, Monday to Friday, 8:00 – 17:00
-  Email sales.eu@chargepoint.com

Copyright © 2017 ChargePoint, Inc. All rights reserved. CHARGEPOINT is a U.S. registered trademark/service mark, and an EU registered logo mark of ChargePoint, Inc. All other products or services mentioned are the trademarks, service marks, registered trademarks or registered service marks of their respective owners.
DS-CP4500-GBR-00. July 2017. PN 73-001126-01-1.

