

CP4100 3-Phase Plug-In AC Charging Station for Business

Specifications and Ordering Information



CP4121

Built with the latest ChargePoint® technology, this new range of all-in-one charging solutions is designed for businesses, fleets and other organisations offering electric vehicle (EV) charging as a facility or service for employees and customers. ChargePoint cloud services make managing 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.

- + Driver-friendly user interface with full-motion colour display informs drivers and supports dynamic updates of customised, branded video content
- + Stations are available in pedestal and wall mount configurations for easy installation anywhere
- + Innovative design allows one product to serve multiple use cases: an installation wizard configures stations out of the box for 1 or 2 output ports at 22 kW, 11 kW, 7.4 kW or 3.7 kW
- + Authentication and payment options include RFID, NFC, phone call, web, mobile app and tap to charge (Apple and Android devices)
- + Intelligent power management allows two charging ports to share a single circuit, doubling the number of parking spaces served; existing 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 Wall Mount 3-Phase 32 A Type 2 Socket (max 22 kW per port)	CP4113
	Dual Port Wall Mount 3-Phase 32 A Type 2 Sockets (max 22 kW per port)	CP4123
	Single Port Wall Mount 3-Phase 32 A Type 2 with Shuttered Socket (max 22 kW per port)	CP4113-SH
	Dual Port Wall Mount 3-Phase 32 A Type 2 with Shuttered Sockets (max 22 kW per port)	CP4123-SH
	Single Port Pedestal Mount 3-Phase 32 A Type 2 Socket (max 22 kW per port)	CP4111
	Dual Port Pedestal Mount 3-Phase 32 A Type 2 Sockets (max 22 kW per port)	CP4121
	Single Port Pedestal Mount 3-Phase 32 A Type 2 with Shuttered Socket (max 22 kW per port)	CP4111-SH
	Dual Port Pedestal Mount 3-Phase 32 A Type 2 with Shuttered Sockets (max 22 kW per port)	CP4121-SH
Misc	Power Management Kit Universal Mounting Kit*	CP4100-PMGMT CP4100-UMK

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

Software & Services

Description	Order Code
ChargePoint Commercial Cloud Plan	CPCLD-COMMERCIAL- <i>n</i> ¹
Station Activation and Configuration	CPSUPPORT-ACTIVE
ChargePoint Assure	CP4100-ASSURE <i>n</i> ²
ChargePoint Site Validation	CPSUPPORT-SITEVALID

Note: All CP4100 stations come with 1 year of ChargePoint Assure coverage at no charge for qualified installations. Other conditions apply. All CP4100 stations require a network service plan.

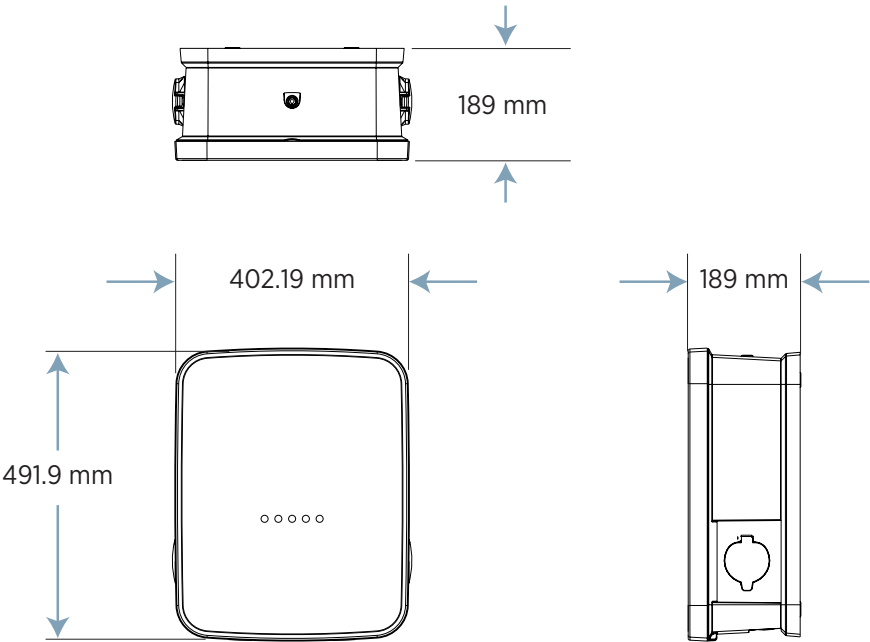
¹ Substitute *n* for desired years of service (1, 2, 3, 4, or 5 years).

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

Order Code Examples

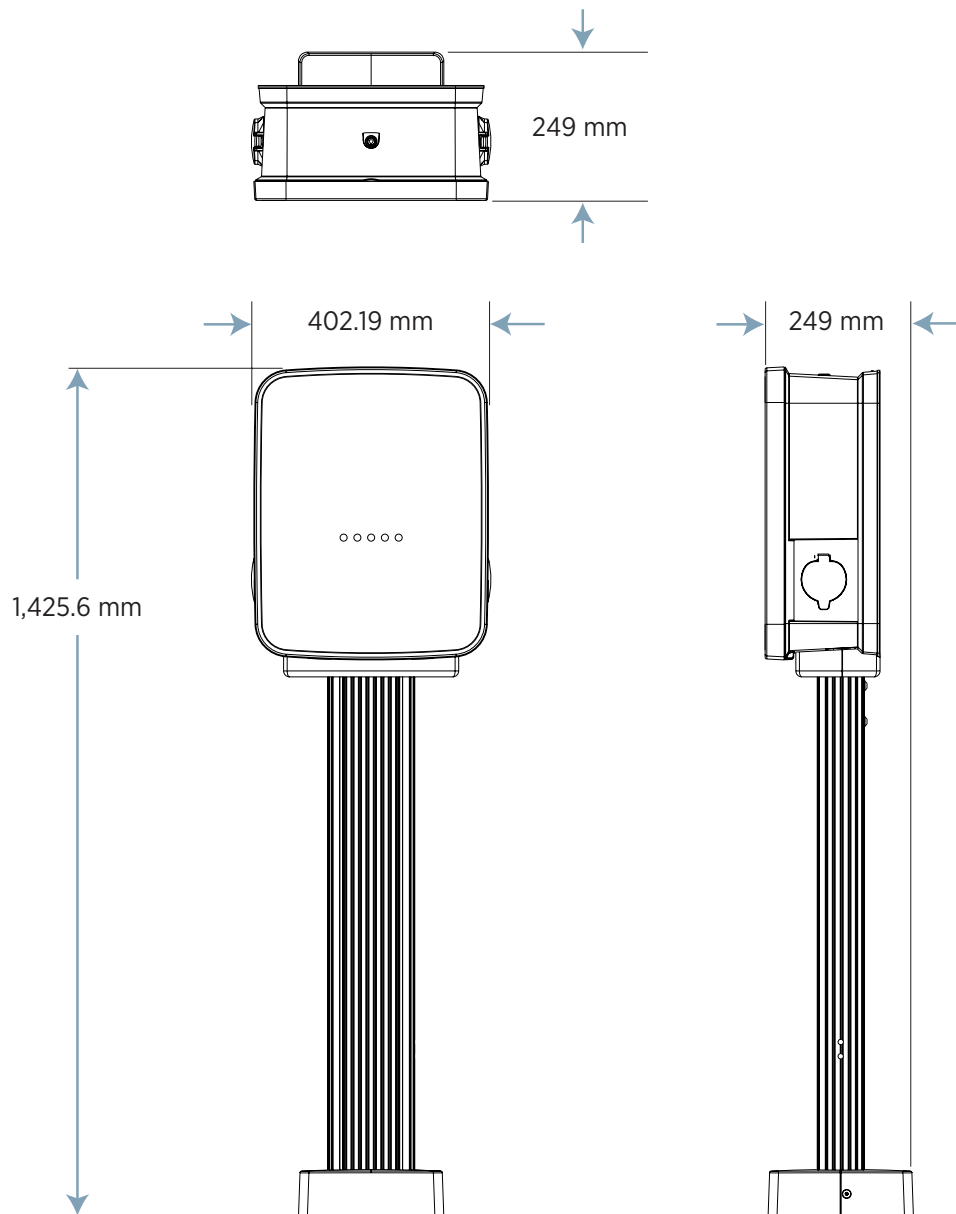
If ordering this...	...the order code is
Dual Port Pedestal Mount Type 2 Sockets	CP4121
ChargePoint Commercial Cloud Plan, 3 Year Subscription: Includes Network Connection, Ongoing Station Software Updates and Station Inventory	CPCLD-COMMERCIAL-3
ChargePoint Site Validation	CPSUPPORT-SITEVALID
2 Additional Years of Assure Coverage	CP4100-ASSURE2
Single Port Wall Mount Type 2 with Shuttered Socket	CP4113-SH
ChargePoint Commercial Cloud Plan, 5 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	CP4123-ASSURE4
Station Activation and Configuration by ChargePoint Support	CPSUPPORT-ACTIVE

Wall Mount
CP41x3



Pedestal Mount

CP41x1



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 16 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)					
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 (CP4100-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 (CP4100-PMGMT)

Functional Interfaces

Socket Type	IEC 62196-2 Type 2 (32 A) (Shuttered sockets available, indicated by “-SH”)
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	IP 54, IK8
Safety Compliance	IEC 61851-1 (ed. 3.0, 2017), Renault Z.E. Ready 1.2b, LVD 2014/35/EU
Surge Protection	4 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	-40°C to +60°C
Operating Humidity	Up to 85% @ +50°C non-condensing
Non-Operating Humidity	Up to 95% @ +50°C non-condensing

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To order your ChargePoint CP4100 charging station:

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