

CPF50

Network Charging Station

Installation Guide



IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS



WARNING: This manual contains important instructions for Home Flex. When using electric products, always follow basic precautions, including the following:

WARNING:

1. **Read and follow all warnings and instructions before servicing, installing, or operating the ChargePoint® charging station.** Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty.
2. **ChargePoint recommends that installation, commissioning, and break-fix services be performed by a licensed electrician who is also a ChargePoint-certified technician.** These systems operate at high voltage, and without strict adherence to safety protocols, proper protective equipment, and ChargePoint technical guides, there is significant risk to people, equipment, and the environment. Please ensure full compliance with all applicable local and national buildings, electrical, and safety codes.
3. **Always ground the ChargePoint charging station.** Failure to ground the charging station can lead to risk of electric shock. The charging station must be connected to a grounded, metal, permanent wiring system, or an equipment grounding conductor should be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all applicable codes and ordinances.
4. **Install the ChargePoint charging station on a concrete pad using a ChargePoint-approved method.** Failure to install on a surface that can support the full weight of the charging station can result in death, personal injury, or property damage. Inspect the charging station for proper installation before use.
5. **This charging station is not suitable for use in Class 1 hazardous locations, such as near flammable, explosive, or combustible vapors or gases (This charging station is not suitable for use in any ATEX classified area, such as near flammable, explosive, or combustible vapors or gases).**
6. **Supervise children near this device.**
7. **Do not put fingers into the electric vehicle connector.**
8. **Do not use this product if any cable is frayed, has broken insulation, or shows any other signs of damage.**
9. **Do not use this product if the enclosure or the electric vehicle connector is broken, cracked, open, or shows any other signs of damage.**
10. **Use only copper conductor wire rated for 90 °C (194 °F).**





11. Do not operate the charging station in temperatures outside its operating range of -40 °F to 122 °F (-40 °C to +50 °C).
12. Ensure the charging cable is positioned so it is not stepped on, tripped over, or subjected to damage or stress. Do not close a garage door on the charging cable.



IMPORTANT: Under no circumstances will compliance with the information in a ChargePoint guide such as this one relieve the user of the responsibility to comply with all applicable codes and safety standards. This document describes approved procedures. If it is not possible to perform the procedures as indicated, contact ChargePoint. ChargePoint is not responsible for any damages that may result from custom installations or procedures not described in this document or that fail to adhere to ChargePoint recommendations.

Warranty Implication



IMPORTANT: Please be advised that all installation, commissioning, and break-fix services must be performed by a ChargePoint-certified technician. Engaging non-certified personnel for these services will result in warranty implications, as doing so constitutes a breach of policy.

Support Services

<https://www.chargepoint.com/legal/support-services>

For more information about ChargePoint's training and certification program, visit

<https://www.chargepoint.com/partners/training-certification>

Product Disposal

Applicable to NA - Do not dispose of as part of unsorted domestic waste. Inquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



Applicable to EU - To comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), devices marked with this symbol may not be disposed of as part of unsorted domestic waste inside the European Union. Enquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



Document Accuracy

The specifications and other information in this document were verified to be accurate and complete at the time of its publication. However, due to ongoing product improvement, this information is subject to change at any time without prior notice. For the latest information, see our documentation online at [ChargePoint Product Reference Documentation](#).

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Symbols

This guide and product use the following symbols:



DANGER: Risk of electric shock



WARNING: Risk of personal harm or death



CAUTION: Risk of equipment or property damage



IMPORTANT: Critical detail that must be followed to achieve intended results



NOTE: Important contextual details or procedural clarifications



REINSTALL NOTE: Essential instructions to follow when reinstalling a part or component



Read the manual for instructions



Ground/protective earth

Illustrations Used in This Document

The illustrations used in this document are for demonstration purposes only and may not be an exact representation of the product. However, unless otherwise specified, the underlying instructions are accurate for the product.



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Revision History

This page provides a summary of revisions made, listing the month and year of each update along with a brief description of the changes made.

Month & Year	Description
May, 2026	<ul style="list-style-type: none">Updated the Complete Station Setup section.Updated IMPORTANT SAFETY INSTRUCTIONS section to revise the warning regarding installation and servicing by a certified technician and to add warranty implication.Added a warranty limitation Caution in the Introduction chapter.
January, 2026	<p>Added Power Share Kit details to the Appendix section.</p> <p>Revised the instructions in the Complete Station Setup section to align with the new Single Sign-On (SSO) process.</p>

Introduction 1

The ChargePoint CPF50 is a durable and powerful station that blends ease of use and reliability. With a maximum charging output of 12 kW (208/240 VAC @ 50 A) and industry-leading, ENERGY STAR® certified efficiency, it helps get vehicles back on the road quickly while reducing energy costs. The CPF50 can be mounted on a pedestal or a wall.

CAUTION: Warranty Limitation



- If the charging station is not installed, commissioned, or serviced by a ChargePoint certified technician using a ChargePoint-approved method, it is *excluded* from all ChargePoint and other warranties and ChargePoint is not responsible.
- You must be a licensed electrician and complete training at <https://www.chargepoint.com/partners/training-certification> to become ChargePoint certified and to access ChargePoint's web-based installer tools or ChargePoint Installer app.

Follow the installation instructions and heed to all warnings.

Site Requirements

Ensure that the appropriate wiring, circuit protection, and metering is completed at the installation site by reviewing the Site Design Guide, Datasheet, wiring diagrams and grounding requirements in [Install the Station and Charging Cable](#).

ChargePoint Gateway Requirements

The CPF50 charging station has its own cellular connection. Earlier models of CPF50 require that the ChargePoint Gateway is installed for cellular connectivity. To determine whether the CPF50 model has its own cellular connectivity, look for the label at the bottom of the station, which indicates the model name. A model name with CPF50-K will have a cellular modem, while a model name with CPF50 will require the ChargePoint Gateway for cellular connection. If the ChargePoint Gateway is required, each CPF50 must be installed within 45 m (150 ft) of the Gateway within line of sight.

Power Management

Using ChargePoint Power Management technology, sites can install more stations than otherwise would be supported by the available electrical service. A maximum aggregate load is defined for a group of charging stations, and ChargePoint cloud-based services manage the individual power output of each station (or port) to ensure the maximum load is never exceeded.

As shipped, a CPF50 charging station provides up to 50 A of output current to each charging station.

Additional information regarding Power Management for your charging stations is available at [ChargePoint Product Reference Documentation](#).



IMPORTANT: Identify which stations (as shown on the activation label) share a circuit. During activation, provide the activation label details along with the breaker panel ID and breaker number (see the Post-Installation Checklist in the Installation Guide, page 5-3).

Tools Required

- Bubble level
- #2 Phillips screwdriver
- #3 Phillips screwdriver
- Wire stripper
- Voltage tester
- T10 Security Torx driver
- Gloves

For Wall Mount Installations

- Drill
- Drill bit suitable for the type of wall material
- 21 mm (3/4 inch trade size) conduit and fittings
- 3/8 inch hex driver
- On a wood stud only: Stud finder
- On a wood stud only: Nut setter
- On masonry or concrete: 6 mm (1/4 inch) internally threaded masonry anchors and screws rated for at least 318 kg (700 lb) pull-out force

For Pedestal Mount Installation

- Ratchet with 3/8 inch and 7/16 inch sockets
- 1/2 inch drive torque wrench, rated for at least 122 Nm (90 ft-lbs)
- 1 -1/16 inch 6-point deep socket
- Adjustable wrench



IMPORTANT: Ensure that the installation complies with all applicable codes and ordinances.

Overview of the Installation Process

1. Check for the correct number of shipping boxes for your configuration.
2. Check the contents of each shipping box.
3. Proceed to the appropriate topic for your configuration:
 - [Install a Wall Mount CPF50 \(Without a CMK\).](#)
 - [Install a Wall Mount CPF50 Bracket and CMK.](#)
 - [Install the Pedestal.](#)
4. Proceed to [Install the Station and Charging Cable](#) to mount the station and connect the service wiring.

Check for the Correct Shipping Boxes

The CPF50 includes nine possible configurations. Verify the number of boxes expected for your configuration. Open the Main Unit box first to access this guide.

Configuration	Box List	Completed Installation
Wall Mount	<ul style="list-style-type: none"> Main Unit 	
Wall Mount with CMK6	<ul style="list-style-type: none"> Main Unit Mounting Kit for CMK CMK6 	

Configuration	Box List	Completed Installation
Wall Mount with CMK8	<ul style="list-style-type: none"> • Main Unit • Mounting Kit for CMK • CMK8 	
Pedestal Mount Single	<ul style="list-style-type: none"> • Main Unit • Pedestal • Single Station (no CMK) Mounting Kit 	
Pedestal Mount Dual	<ul style="list-style-type: none"> • Main Unit (2) • Pedestal • Dual Station (no CMK) Mounting Kit 	
Pedestal Mount Single with CMK6	<ul style="list-style-type: none"> • Main Unit • Pedestal • Single Station with CMK Mounting Kit • CMK6 	
Pedestal Mount Dual with CMK6	<ul style="list-style-type: none"> • Main Unit (2) • Pedestal • Dual Station with CMK Mounting Kit • CMK6 	

Configuration	Box List	Completed Installation
Pedestal Mount Single with CMK8	<ul style="list-style-type: none"> • Main Unit • Pedestal • Single Station with CMK Mounting Kit • CMK8 	
Pedestal Mount Dual with CMK8	<ul style="list-style-type: none"> • Main Unit (2) • Pedestal • Dual Station with CMK Mounting Kit • CMK8 	

Check the Contents of Each Box

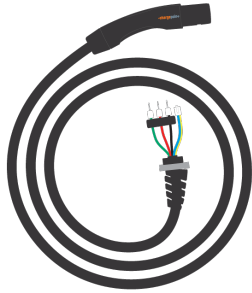
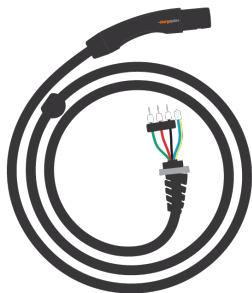
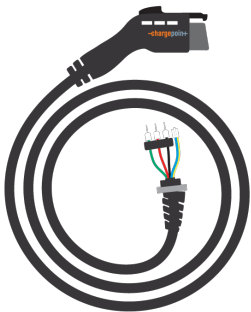
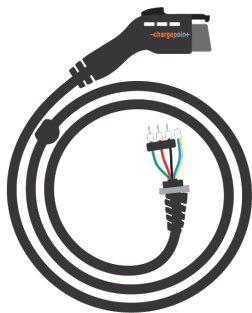
Listed below are the items available in each box:

- Installation Guide
- Rating label sheet (inside guide)
- Wall mounting template (inside guide)
- Charging station
- Faceplate
- Mounting skirt
- Wire cover
- 1/4 x 2 inch lag screws (3)
- 1/4-20 x 3/8 inch Phillips screw
- 1/4-20 x 3/4 inch hex bolts (2)
- 6-32 x 3/8 T10 Torx screws (2)



- Spare activation label (A duplicate label is attached to the front of the charging station. Keep this spare label. It contains important information needed to activate the station on the ChargePoint network.)
- Charging cable

About the Charging Cable



Charging cables (J1772 or NACS) come in two lengths: 5.5 m (18 ft) or 7 m (23 ft). Verify the length. If you ordered a CMK, ensure that the charging cable matches the length of the CMK. The charging cables for use with CMK have a cable clamp (a) pre-installed on the charging cable.

Pedestal



The pedestal box contains:

- Main body
- Pedestal covers (3)*
 - Front (a)
 - Back with CMK (b)
 - Back without CMK (c)
- Pedestal CMK spacer (attached to the rear of the main body)
- 8-32 x 3/8 inch screws (4)
- Charging station sign (attached to the front of the main body)

Determine which back cover you need for your installation. Discard the remaining back cover.



NOTE: To prepare the installation site for installing a pedestal mount charging station, you also need the contents of the Pedestal Mount Kit. This ships separately and should already be installed prior to unboxing and installing the CPF50 charging station to allow for concrete or epoxy cure times. For additional information about site preparation, please see the CPF50 [Site Design Guide](#).

Cable Management Kit (CMK)



The CMK comes in two sizes: CMK6 or CMK8.

- The CMK6 works with a 5.5 m (18 ft) charging cable.
- The CMK8 works with a 7 m (23 ft) charging cable.

The CMK includes:

- Cable Management assembly with pre-installed **EV Charging Only** sign and attached knot bearings
- Cable clamps (2 extra sets)



NOTE: The cable clamps are pre-installed on the charging cable and these extra sets will not be used when installing the CPF50.

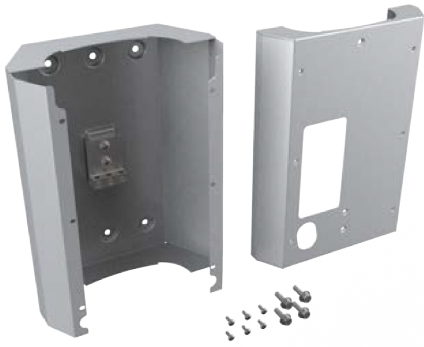
Mounting Kit

There are five possible mounting kits. Ensure that the item you received matches your product configuration. Each mounting bracket is unique to the configuration.

Wall Mount Kit for CMK Systems

- Back bracket
- Front bracket
- 1/4-20 x 3/4 inch hex screws (4)
- 8-32 x 3/8 inch screws (6)
- Lock washers (6)

- Lower CMK



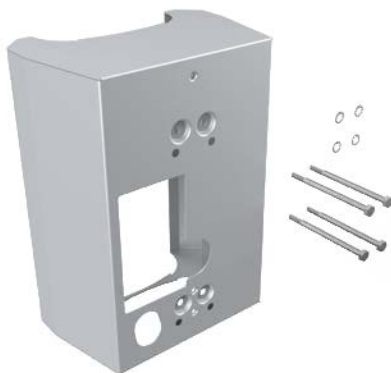
Single Station Pedestal (Without CMK) Mount Kit

- Bracket
- 10-32 x 4 inch screws (4)
- Lock washers (4)



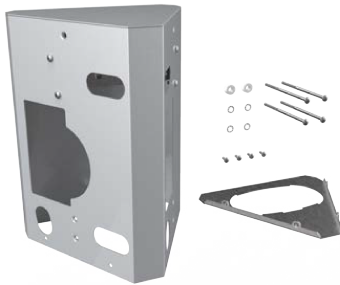
Single Station Pedestal With CMK Mount Kit

- Bracket
- 1/4-20 x 4 inch screws (4)
- Lock washers (4)



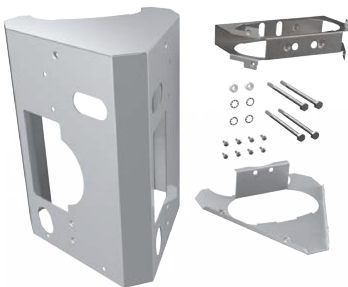
Dual Station (Without CMK) Mount Kit

- Bracket
- Bottom bracket cover
- Internal bracket (installed inside bracket)
- 10-32 x 4 inch screws (4)
- 8-32 x 3/8 inch screws (4)
- Nylon spacers (2)
- Lock washers (4)



Dual Station With CMK Mount Kit

- Bracket
- Top internal brace
- Bottom internal brace
- 1/4-20 x 4 inch screws (4)
- 8-32 x 3/8 inch screws (8)
- Nylon spacers (2)
- Lock washers (4)



Select Your Configuration

Once you have confirmed that you have the correct boxes and all contents for the charging station(s) you are installing, proceed to the next applicable section based on your configuration:

- Install a Wall Mount CPF50 (Without a CMK)
- Install a Wall Mount CPF50 Bracket and CMK
- Install the Pedestal

Install a Wall Mount CPF50 2 (Without a CMK)

To install a wall mount CPF50 without a CMK, follow these steps:

1. Remove the faceplate and the wire cover from the charging station. Set them aside.



2. Mark the location.

- For wood stud mounting, mark the center of the stud with a line from 1000-1100 mm (39-43 inches) above the finished floor.
- For masonry or concrete, mark approximate mounting location with a vertical line from 1000-1100 mm (39-43 inches) above the finished floor.

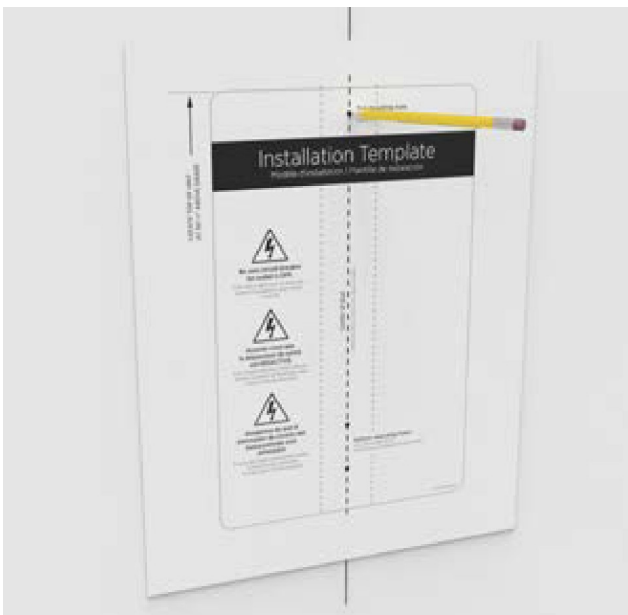


3. Hold the station against the wall, with the top of the station approximately 1270 mm (50 inches) above ground level.
4. Ensure that the charging station is level using a bubble level.

-
5. Mark the two lower mounting holes.



6. Hold the mounting template against the wall.
7. Align the lower mounting holes on the installation template with the holes marked in the previous step.
8. Mark the top mounting hole from the installation template on the wall.



9. Remove the template from the wall.

10. Drill the three mounting holes using a drill bit suitable for the type of wall material.

- For wood stud mounting, drive one of the supplied 51 mm (2 inches) lag screws into the top mounting hole, leaving a gap of 3 mm (1/8 inch) between the screw head and the wall.
- For Masonry or Concrete Mounting
 - a. Drill three mounting holes following the instructions provided with the wall anchors.
 - b. Install the three anchors securely in the drilled holes.
 - c. Insert a screw into the top mounting anchor, leaving a 3 mm (1/8 inch) gap between the screw head and the wall.



11. Hang the charging station on the protruding screw using the notch behind.



12. Secure the station by inserting the remaining fasteners into the mounting holes located in the stations terminal block area.

- For wood mounting, use the two 51 mm (2 inches) lag screws provided.
- For masonry or concrete mounting, use the two remaining masonry screws in the anchors.

Proceed to [Install the Station and Charging Cable](#) to review the wiring diagram.

Install a Wall Mount CPF50 Bracket and CMK 3

To install a wall mount CPF50 bracket and CMK, follow these steps:

Mount the Back Bracket

1. Place the back bracket against the wall with the top of the bracket 1270 mm (50 inches) above the floor level.
2. Place a bubble level on top of the bracket and ensure that the holes are accurately aligned.



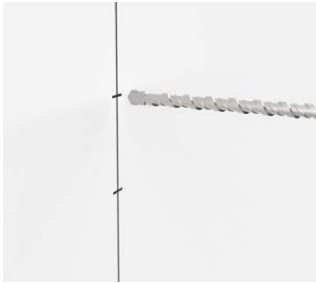
3. Mark the drill holes:
 - Use the two center holes if the station is being mounted to a wooden stud **(a)**.
 - Use the four outer holes if mounting to a masonry or concrete wall **(b)**.



4. Drill the mounting holes with appropriate drill bit for the type of wall.



NOTE: For masonry or concrete walls, insert masonry anchors (not included) rated for at least 318 kg (700 lbs) of pull-out force.



5. Secure the back bracket to the wall:
 - For wooden stud, use two of the 1/4 x 2 inch lag screws provided.
 - For masonry or concrete walls, use four screws appropriate for your anchors.
6. Run service wiring through 19 mm (3/4 inch trade size) conduit.



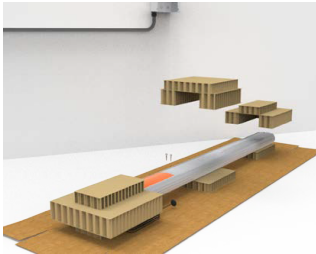
7. Insert the conduit in the hole at the bottom of the back bracket. Run approximately 300 mm (12 inches) of service wiring into the bracket.
8. Use a Phillips screwdriver and connect the ground wire to the grounding lug on the back bracket.

Prepare the CMK

1. Place the CMK horizontally, remove and discard the two shipping screws from the front of the CMK.



NOTE: Do not unwrap the ropes.



2. Position the CMK packaging in a way that the bottom is located near where the charging station will be installed.



WARNING: When you remove the shipping screws, the counterweights are free to move in either direction. To prevent damage or injury, always carry the assembly with the top end higher than the bottom end.

3. Remove the cardboard packaging.

Mount the CMK

1. Slowly lift the CMK into position against the back bracket and hold it in place.



NOTE: The ropes will rise as the weights inside the CMK lower. Guide the ropes to the top as you gently lift the CMK.

2. Position the front bracket so that the wiring opening is in the lower left corner.

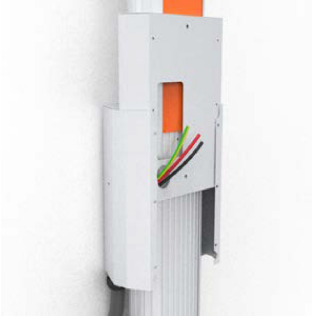


3. Slide the front bracket down over the CMK gently (ensure that you do not scratch the CMK sign) until it aligns with the back bracket.



CAUTION: When sliding the front bracket down, pull the service wiring out of the way to protect the wires from damage.

4. Route the service wiring through the opening in the front bracket.



5. Fasten the front bracket to the back bracket using a #2 Phillips screwdriver and the six 3/8 in screws.



Install the Lower Sign

1. Insert the bottom left corner of the sign under the groove on the bottom left corner of the CMK.



2. Slide the sign downward as far as possible so that the top of the sign is positioned under the bottom of the mounting bracket.
3. Starting with the bottom left corner and working from bottom to top, slide the left side of the sign under the leftmost groove.

4. When the left side of the sign is fully inserted, bow the bottom of the sign outward slightly to insert the bottom right corner of the sign under the groove on the bottom right corner.
5. Starting with the bottom right corner and working from the bottom to top, slide the right side of the sign under the rightmost groove.

Proceed to [Install the Station and Charging Cable](#) to mount the charging station.

Install the Pedestal 4

To install the pedestal, follow these steps:

Mount and Level the Pedestal

1. Ensure that the concrete has been prepared according to the Bolt Pattern Template . This includes:
 - Four bolts set into concrete with two nuts and two washers for each bolt, with the bolt extending 63.5 mm (2 1/2 inches) above the surface.
 - Conduit stub-up measuring approximately 0.3 m (1 ft) above the concrete surface.
 - Approximately 1.5 m (5 ft) of service wiring extending above the concrete surface.
2. Remove the top nut and top washer from each of the four bolts in the pad.



3. Place the pedestal over the conduit and route the service wiring through the column. Ensure that the edge with the cut-out for CMK is located at the back of the station.
4. Adjust the lower nuts to ensure that the pedestal is level.
5. When level, fasten the pedestal to the bolts using the washer and nut removed from the bolt. Torque the top nuts to 122 Nm (90 ft-lbs).

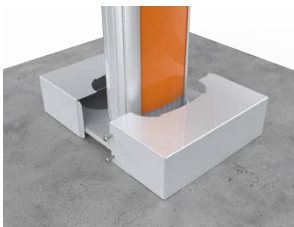


IMPORTANT: Verify that the pedestal is level and plumb after each adjustment by positioning the level at various locations on the base plate and on the pedestal.

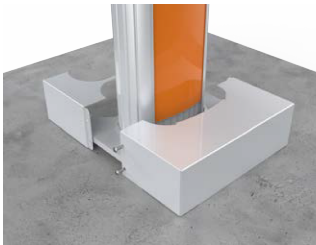


Install Pedestal Covers

1. Select the appropriate pedestal covers from the three pieces provided:
 - If the station is not using a CMK, use the back pedestal cover without a cut-out.
 - If the station is using a CMK, use the back pedestal cover with the cutout for the CMK.



2. Position the two-piece pedestal cover over the bottom of the pedestal.
3. Insert the four 3/8 inch screws, two into each side of the pedestal cover.



4. Tighten the screws using a Phillips screwdriver.
5. If the station is not using a CMK, slide the spacer at the back of the pedestal upward to remove it.



6. Discard the extra pedestal cover and the spacer, if you are installing a station without a CMK.

Select Your Configuration

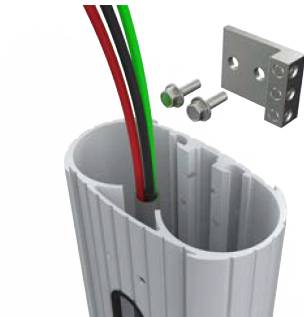
Proceed to the next section according to the configuration of the installation:

- For single station installation without CMK, proceed to [Mount a Single Station Bracket \(Without a CMK\)](#).
- For single station installation with CMK, proceed to [Mount a Single Station Bracket and CMK](#).
- For dual station installation without CMK, proceed to [Mount a Dual Station Bracket \(Without a CMK\)](#).
- For dual station installation with CMK, proceed to [Mount a Dual Station Bracket and CMK](#).

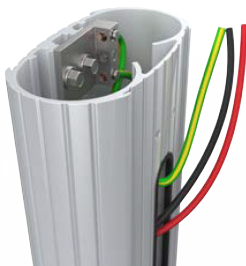
Mount a Single Station Bracket 5 (Without a CMK)

To mount a single station bracket without a CMK, follow these steps:

1. Use a 7/16 inch wrench and remove the ground lug from the pedestal. Save the screws to reinstall later.



2. Connect the ground wire from the service wiring to the ground lug.
3. Run the ground wire from the ground lug through the wiring opening at the front of the pedestal.



4. Use the 7/16 inch wrench and reinstall the ground lug to the pedestal with the two screws you removed.

5. Slide the bracket over the pedestal and simultaneously guide the remaining service wiring through the opening at the front of the pedestal.



CAUTION: The bracket must slide over the service wiring. Lay the wiring as flat as possible against the pedestal to prevent damage.

6. Insert four screws (4 inches) and four lock washers (#10) through the bracket and into the pedestal stand-offs to fasten the bracket to the pedestal.



7. Tighten the screws using a Phillips screwdriver.
8. Route the service wiring through the wiring hole at the front of the bracket.

Proceed to [Install the Station and Charging Cable](#) to mount the station.

Mount a Single Station Bracket and CMK 6

To mount a single station bracket and CMK, follow these steps:

Prepare the CMK

1. Position the CMK packaging in a way that the bottom is located near where the charging station will be installed.

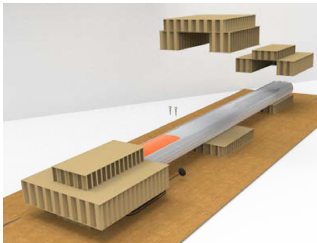


NOTE: Do not unwrap the ropes.

2. Remove and discard the two shipping screws from the front of the CMK.



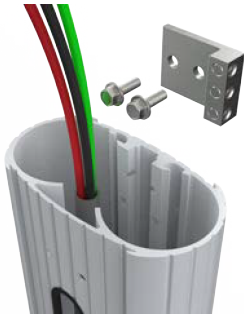
WARNING: When you remove the shipping screws, the counterweights are free to move in either direction. To prevent damage or injury, always carry the assembly with the top end higher than the bottom end.



3. Remove the cardboard packaging.

Mount the Bracket and CMK

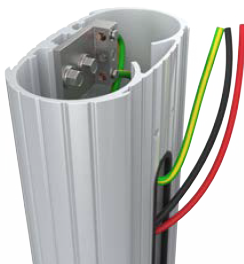
1. Use a 7/16 inch wrench and remove the ground lug from the pedestal. Save the screws to re-install later.



2. Connect the ground wire from the service wiring to the ground lug.



3. Run the ground wire from the ground lug through the wiring opening at the front of the pedestal.



4. Use the 7/16 inch wrench and re-install the ground lug to the pedestal with the two screws you removed.
5. Slide the bracket over the pedestal while guiding the remaining service wiring through the opening at the front of the pedestal.



CAUTION: The bracket must slide over the service wiring. Lay the wiring as flat as possible against the pedestal to prevent damage.



6. Align the two holes at the top and the two holes at the bottom of the bracket with the corresponding holes on the pedestal.
7. Insert four screws (4 inches) and four lock washers (#10) through the bracket at the pedestal.

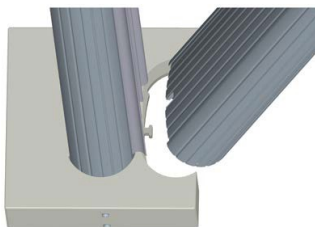


NOTE: The screws are loose until they are fastened to the CMK later.

8. Route the service wiring through the wiring hole at the front of the bracket.
9. Slowly lift the CMK into position with the slot at the bottom of the CMK sliding onto the knob at the bottom of the pedestal.



NOTE: The ropes will rise as the weights inside the CMK lower. Guide the ropes to the top as you slowly lift the CMK.



10. Hold the CMK against the back of the pedestal and align the four screws coming through the bracket and pedestal with the corresponding holes in the CMK.



NOTE: The spacer on the pedestal must slide into the ridges on the CMK.

11. Hold the bracket and CMK in place and tighten the four screws with the 7/16 inch socket.

Proceed to [Install the Station and Charging Cable](#) to mount the station.

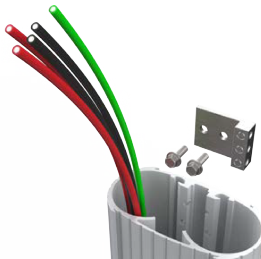
Mount a Dual Station Bracket 7 (Without a CMK)

To mount a dual station bracket without a CMK, follow these steps:

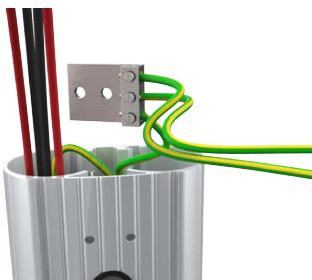
1. Slide the bottom bracket cover (a) over the pedestal and guide it gently to the bottom.



2. Use a 7/16 inch wrench and remove the ground lug from the pedestal. Save the screws to reinstall later.



3. Connect the ground wire from the service wiring to the ground lug.



4. Run the ground wires from the ground lug through the wiring opening at the front of the pedestal.

5. Use the 7/16 inch wrench and re-install the ground lug to the pedestal with the two screws you removed.
6. Route the remaining service wiring through the opening at the front of the pedestal.
7. Slide the bracket over the pedestal.



8. Align the two holes at the top and the two holes at the bottom of the bracket with the corresponding holes on the pedestal.
9. Use two screws (4 inches) with lock washers at the top and two screws (4 inches) with nylon spacers at the bottom to fasten the main bracket to the pedestal.



10. Route the service wiring through the wiring hole on each left corner of the main bracket fronts.
11. Slide the bottom cover up.



NOTE: Ensure not to scratch the sign on the front of the pedestal.

-
12. Use four screws (3/8 inch), two on each side and fasten the bracket to the main bracket.



Proceed to Install the Station and Charging Cable to mount the station.

Mount a Dual Station Bracket and 8 CMK

To mount a dual station bracket and CMK, follow these steps:

Prepare the CMK

1. Position the CMK packaging in a way that the bottom is located near where the charging station will be installed.

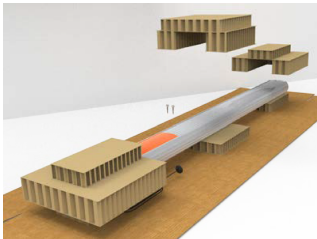


NOTE: Do not unwrap the ropes.

2. Remove and discard the two shipping screws (a) from the front of the CMK.



WARNING: When you remove the shipping screws, the counterweights are free to move in either direction. To prevent damage or injury, always carry the assembly with the top end higher than the bottom end.



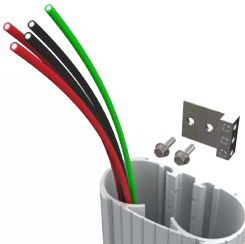
3. Remove the cardboard packaging.

Mount the Bracket and CMK

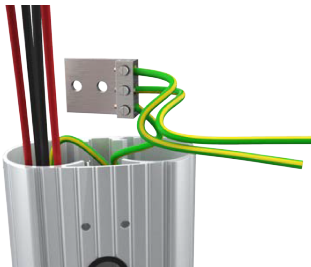
1. Slide the bottom internal brace over the pedestal and guide it gently to the bottom.



2. Use a 7/16 inch wrench and remove the ground lug from the pedestal. Save the screws to reinstall later.

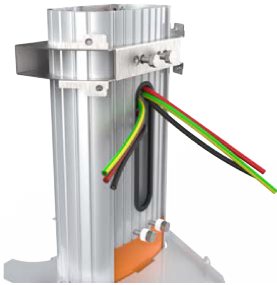


3. Connect the ground wire from the service wiring to the ground lug.



4. Run the ground wires from the ground lug through the wiring opening at the front of the pedestal.
5. Use the 7/16 inch wrench and re-install the ground lug to the pedestal with the two screws you removed.
6. Route the remaining service wiring through the opening at the front of the pedestal.
7. Install lock washers on each of the four screws (4 inches).

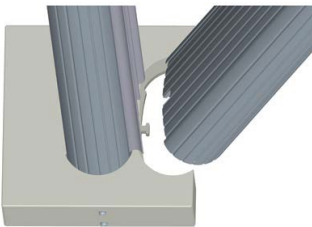
- Place the top internal brace on the pedestal and align it with the two holes at the top of the pedestal.



- Insert two of the screws into the holes on the top brace and through the pedestal.
- Install nylon spacers on the two remaining screws (4 inches).
- Insert the two screws (4 inches) with spacers through the two bottom holes of the pedestal.
- Slowly lift the CMK into position with the slot at the bottom of the CMK sliding onto the knob at the bottom of the pedestal.



NOTE: The ropes will rise as the weights inside the CMK lower. Guide the ropes to the top as you slowly lift the CMK.



- Hold the CMK against the back of the pedestal and align the four screws coming through the bracket and pedestal with the corresponding holes in the CMK.



NOTE: The spacer on the pedestal must slide into the ridges on the CMK.



- Hold the bracket and CMK in place and tighten the four screws with the 7/16 inch socket.

15. Slide the bracket over the pedestal and align the holes in the main bracket with the corresponding holes on the top internal brace.



16. Insert four screws (3/8 inch) into the top brace, two on each side to fasten the main bracket to the pedestal.



17. Route the service wiring through the wiring hole on each left front corner of the bracket.
18. Slide the bottom internal brace up.



NOTE: Ensure not to scratch the sign on the front of the pedestal.

19. Use four screws (3/8 inch), two on each side and fasten the bracket to the main bracket.



Proceed to [Install the Station and Charging Cable](#) to mount the station.

Install the Station and Charging Cable 9

Proceed to the following topics to install the charging station and charging cable.

Mount the Station

1. Remove the faceplate and the wire cover from the charging station. Set them aside.



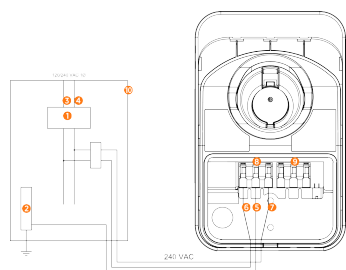
2. Insert a 3/8 inch screw into the top center hole on the front of the bracket using a #2 Phillips screwdriver. Leave the screw protruding approximately 6 mm (1/4 inch) to create a 3 mm (1/8 inch) gap between the back of the screw head and the bracket.
3. Position the mounting skirt against the back of the main unit.
4. Route the service wiring through the knockout in the back or the bottom of the main unit based on the configuration.
5. Hang the mounting skirt and the main unit on the top protruding screw on the bracket.
6. Insert two hex screws (3/4 inch) through the holes near the bottom center and secure the main unit.



7. Tighten the hex screws using a 3/8 inch hex driver.

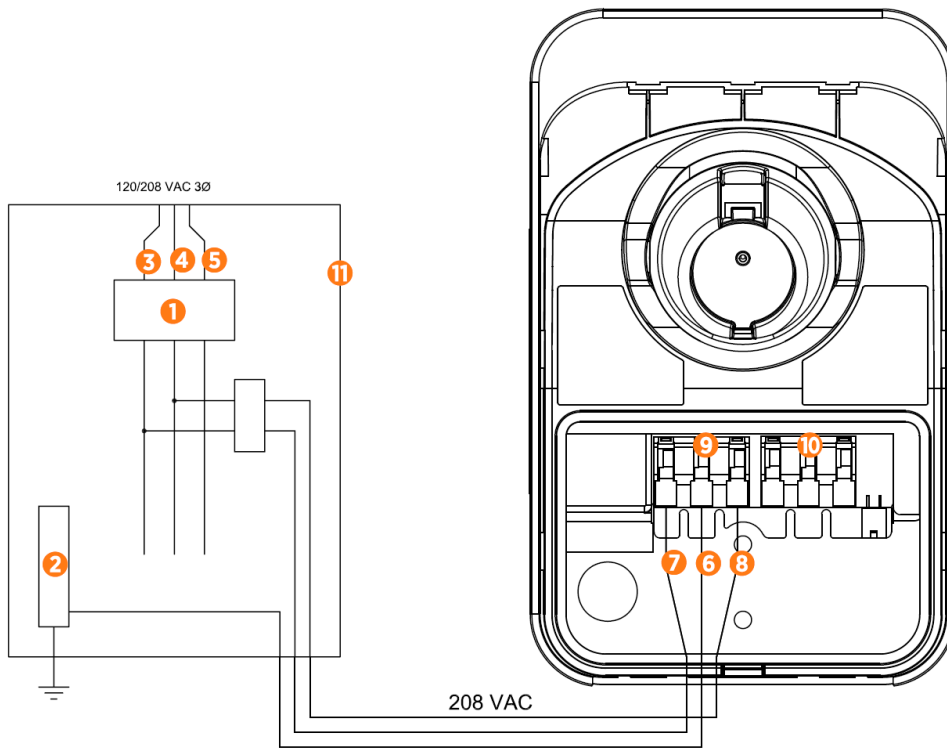
Review the Wiring Diagram

240 VAC Single Phase Panel



- (1) Main Breaker
- (2) Ground Bus
- (3) L1
- (4) L2
- (5) Ground
- (6) L1
- (7) L2
- (8) Input Terminal Block
- (9) Output Terminal Block
- (10) Local Service or Sub Panel

208 VAC Three Phase Panel



- (1) Main Breaker
- (2) Ground Bus
- (3) L1
- (4) L2
- (5) L3
- (6) Ground
- (7) L1
- (8) L2/N
- (9) Input Terminal Block
- (10) Output Terminal Block
- (11) Local Service or Sub Panel



NOTE: Connect power to any two phases.

Connect the Service Wiring

1. Ensure that the service wiring can easily reach the connectors on the charging station's terminal block.



NOTE: If mounting the CPF50 on an exterior wall and bringing power through the rear knockout, apply sealant around the rear knockout to prevent water ingress.



2. Trim the wiring to reduce excess length if any.
3. Strip each wire to 12 mm (1/2 inch).
4. Ensure that the white clips on the terminal block are fully open.
5. Insert the wires into the connectors on the left side of the terminal block.
6. On each connector, press down the three levers until they snap into place.



CAUTION: Ensure that each wire is fully inserted into the connector with no bare wire visible before pressing it into place with the white clip.

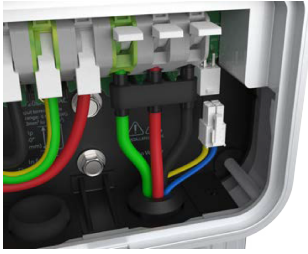
Connect the Charging Cable

1. Remove the cable clip connected to the wiring end of the cable, but do not discard it. Save the clip to use later.



2. Fold the wire ends and insert them into the opening on the lower right side of the station, push up until the cable collar is flush against the enclosure.

3. Insert the green wire in the green slot on the left terminal of the output block.

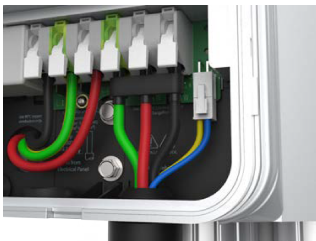


4. Insert the remaining wires into the corresponding connectors on the right side of the terminal block.
5. Push the cables up until the silver conductors are no longer visible.
6. Snap the white levers all the way down on each wire.



CAUTION: Ensure that each wire is fully inserted into the connector with no bare wire visible before pressing it into place with the white clip.

7. Insert the 4-pin plug into the connector on the right side of the output supply wiring.



8. While pushing the cable up, slide the cable clip into the slot until it snaps into place. This secures the cable and provides strain relief.



Attach the Wire Cover and Faceplate

1. Place the wire cover over the exposed wiring.



2. Use a coin to lock the wire cover in place.



NOTE: Do not use a screwdriver as it may damage the wire cover.

3. Stick rating label at the bottom of the station over the default rating displayed. The rating label values must match the circuit feeding the charging station.



4. Remove the spare activation label taped to the front of the main unit and place it on the CPF50.



5. Snap the faceplate onto the charging station.



6. Use two T10 Security Torx screws and fasten the faceplate to the bottom of the station.



Prepare the Charging Cable for Use

To prepare the charging cable, follow these steps:

For Stations Without a CMK

1. Extend the charging cable to its full length to remove any kinks or twists.



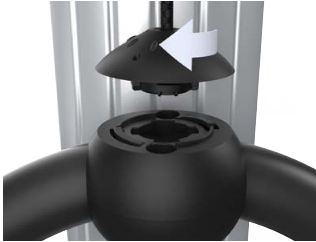
2. Drape the charging cable over the top of the charging station.
3. Insert the connector in its holster.
4. Proceed to [Complete Station Setup](#) to complete the station setup.

For Stations With a CMK



NOTE: No tools are required to install the knot bearing. You do not need anything from the extra cable clamp kit that comes with the CMK.

1. Extend the charging cable to its full length to remove any kinks or twists.
2. Align the knot bearing on each rope to its corresponding mating feature on the cable clamp.



3. Turn the knot bearing clockwise approximately one-quarter turn. Push down gently while turning the knot bearing.



NOTE: If you are installing a single station CPF50, attach the charging cable on the left side of the station to minimize interference with the RFID reader.

4. Proceed to [Complete Station Setup](#) to complete the station setup.

Complete Station Setup 10



IMPORTANT: The CPF50 charging station has its own cellular connection. Earlier models of CPF50 require that the ChargePoint Gateway is installed for cellular connectivity. To determine whether the CPF50 model has its own cellular connectivity, look for the label at the bottom of the station, which indicates the model name. A model name with CPF50-K will have a cellular modem, while a model name with CPF50 will require the ChargePoint Gateway for cellular connection. If the ChargePoint Gateway is required, each CPF50 must be installed within 45 m (150 ft) of the Gateway within line of sight. For earlier models, do not proceed until the ChargePoint Gateway is ready. The station will not function until the ChargePoint Gateway is properly installed in a location where it has a strong cellular signal and an unobstructed line of sight to the charging station.

To complete the setup, you must have completed the ChargePoint Installer training and ChargePoint uses Single Sign-On (SSO) for accessing the Certification Hub and ChargePoint University.

When a technician or installer visits either site, they go to a login page.

- If they already have a Field Technician/Installer account, they log in with their existing credentials.
- If they don't have an account, they [register](#) for one during the SSO setup. This registration generates their login credentials.

Required Tools and Materials



Smartphone with Internet connectivity



ChargePoint Installer app



Exact location of stations or units, including parking space



ChargePoint installer login credentials

To complete the setup, you must have completed the ChargePoint Installer training and received your ChargePoint Installer login.

Power Up

Power up the station. If the station does not power up, check the wiring from the electrical panel to the terminal block for issues.

Pinpoint the Station

Open the ChargePoint Installer app on your smartphone and follow the instructions below:

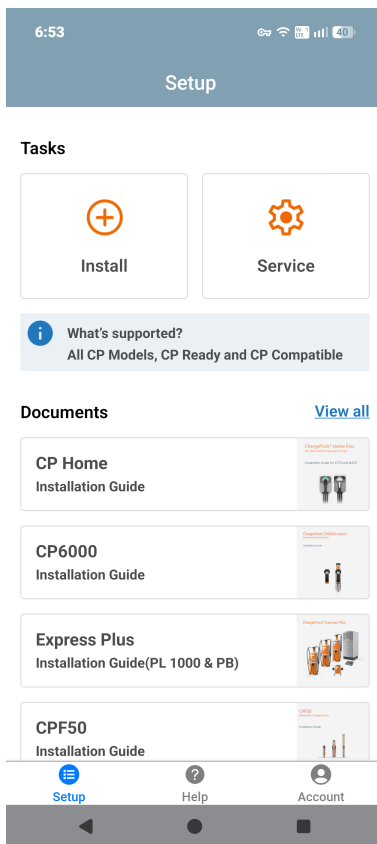
1. If you do not already have the Installer app, scan the QR code to download the app.



2. Log in or register using the ChargePoint Installer app on your smartphone.



IMPORTANT: If cellular connectivity is unavailable, the Installer app automatically switches to Offline Mode for Ethernet configuration. Automatic switching occurs only if the Installer app was launched and logged in while online. If Offline Mode does not start automatically, you can enable it manually using the Force Offline Mode option in the Account section or by turning on Flight Mode.



3. Tap on **Install**.
4. Use the app to scan the QR code on the charging station label.



5. The app automatically identifies the charging station and begins the pinpointing and configuration process.
6. Follow the in-app instructions to complete pinpointing and configuration process.

Station Activation



NOTE: All ChargePoint stations are networked stations and are sold alongside a software cloud plan per port. In order for the station to function, the station owner is responsible for coordinating the activation of their station's software with ChargePoint.



NOTE: Activation consists of pairing the station with their software purchase as well as the station owner's organization. The station owner then decides what policies to assign to a station (name, pricing, access control, advanced features).

As the installer, your role is to support this process by providing the station owner with the required station identification information. Before leaving the site, give the station owner a list of all installed station serial numbers and/or MAC addresses and inform them that activation is required before the station can be used.

If station owner has additional questions, you can refer them to ChargePoint Support at chargepoint.com/support.

Start a Charging Session

Once the pinpointing is complete, use the ChargePoint card to start a test session. Verify that you can:

- Initiate a charging session.
- Plug the handle into a vehicle or a vehicle emulator (if available).
- Return the handle to the holster.

Installation Checklist 11

To adhere to ChargePoint best practices, before leaving the installation site complete the [installation checklist](#).

Provide the checklist and spare parts if any, to the person responsible for activating the stations. This completes the installation of the CPF50 charging station.

Appendix: Power Sharing Kit A

Use the Power Share Kit to connect a dual-port charging station to a single circuit.

Kit Contents

If you ordered a Power Share Kit, it includes:

- Junction Box (1)
- Cover (1)
- ¼" Self-Tapping Screws to attach junction box to pedestal (2)
- Screws to attach cover (2)
- Wire Nuts (2)
- Installation Instructions



DANGER: Turn off circuit breaker.

Do not restore power until installation is complete. Failure to follow these instructions could result in shock or electrocution.

Install the Power Share Kit

1. Turn off the circuit breaker to disconnect power before starting the installation.
2. Use the two supplied screws to attach the junction box to the pedestal.
3. Run the L1 and L2 service wires through the hole in the bottom of the junction box. The maximum wire size allowed is 6 AWG.
4. Twist two wires, approximately 18 inches long, onto each service wire and secure them with wire nuts.
5. Route a wire to each charging station.
6. Attach the cover to the junction box by hand-tightening the two supplied screws.



NOTE: Maximum wire size is 6 AWG.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Important: Changes or modifications to this product not authorized by ChargePoint, inc., could affect the EMC compliance and revoke your authority to operate this product.

Exposure to Radio Frequency Energy: The radiated power output of the 802.11 b/g/n radio and cellular modem (optional) in this device is below the FCC radio frequency exposure limits for uncontrolled equipment. The antenna of this product, used under normal conditions, is at least 20 cm away from the body of the user. This device must not be co-located or operated with any other antenna or transmitter by the manufacturer, subject to the conditions of the FCC Grant.

ISED (formerly Industry Canada)

This device complies with the licence-exempt RSS standard(s) of Innovation, Science and Economic Development Canada (ISED). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux flux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada (ISDE). L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter.

Radiation Exposure Statement: This equipment complies with the IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Énoncé d'exposition aux rayonnements: Cet équipement est conforme aux limites d'exposition aux rayonnements ioniques RSS-102 Pour un environnement incontrôlé. Cet équipement doit être installé et utilisé avec un Distance minimale de 20 cm entre le radiateur et votre corps.

FCC/IC Compliance Labels

Visit chargepoint.com/labels.