

CT4000 Power Management Instructions

As shipped, a CT4000 charging station provides up to 30A of output power to each charging port. The Power Management Kit (ordered separately) provides two features that you can use to adjust the station's output power:

- Power Share allows both ports on a dual-port station to share a single circuit. In a default configuration, a dual-port CT4000 requires two 40A circuits. With Power Share, both ports can share one circuit.
- Power Select allows the station to operate at a lower current. When the total current capacity is less than the standard 30A per circuit, you can use Power Select to configure the station to operate at a lower current.

Before you start

Before using the Power Management Kit:

- Refer to the site design to determine the charging station's power requirements.
- Install the charging station's main body as described in the CT4000 Installation Guide. If you are configuring Power Share, do not connect the wiring—you will first need to install the jumpers as described on page 2.

! IMPORTANT: To configure Power Select, the station must be running software version 4.1.3 or later. To verify software version, power up the station and display the station's Service Menu as described on page 3. Press the station button immediately below the "HELP" menu option, then press the station button immediately below the "DOWN" menu option to highlight "About", then press "SELECT". If a previous version of software is installed, call ChargePoint Customer Support at 1-877-850-4562 so they can upgrade the station's software.

Kit Contents

Jumpers (2)
(Required for Power Share)

Electrical Rating labels
(Whenever you change the station's default power configuration, you must apply a new label to the terminal block cover)

CAUTION: Do not use this product if there is any cracking or damage to the EV connector or cable.
WARNING: Automatic CCID reset provided.

ATTENTION: N'utiliser pas ce produit si il y a de fissuration ou de dommage connecteur du véhicule électrique ou le câble. **AVERTISSEMENT:** CCID réinitialisation fournie automatiquement.

INPUT: TWO 208/240VAC, 60Hz, 16A, 1Ø
OUTPUT: TWO 208/240 VAC, 60Hz, 16A
OR
INPUT: ONE 208/240VAC, 60Hz, 16A, 1Ø
OUTPUT: ONE 208/240 VAC, 60Hz, 16A
OR TWO 8A MAX (16A COMBINED)

Rating: -30°C to +50°C, Ventilation not Required

CAUTION: Do not use this product if there is any cracking or damage to the EV connector or cable.
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INPUT: TWO 208/240VAC, 60Hz, 24A, 1Ø
OUTPUT: TWO 208/240 VAC, 60Hz, 24A
OR
INPUT: ONE 208/240VAC, 60Hz, 24A, 1Ø
OUTPUT: ONE 208/240 VAC, 60Hz, 24A
OR TWO 12A MAX (24A COMBINED)

Rating: -30°C to +50°C, Ventilation not Required

APPLY ONE OF THESE TO THE TOP CAP BEHIND RIGHT EAR

Use Min 90°C Copper Conductors Only.
Input Terminal Wire Size Range:
6 to 12AWG (13mm² to 3.3mm²) Stranded.

INPUT: TWO 208/240VAC, 60Hz, 16A, 1Ø
OUTPUT: TWO 208/240 VAC, 60Hz, 16A

Use Min 90°C Copper Conductors Only.
Input Terminal Wire Size Range:
6 to 10AWG (13mm² to 5.3mm²) Stranded.

INPUT: TWO 208/240VAC, 60Hz, 24A, 1Ø
OUTPUT: TWO 208/240 VAC, 60Hz, 24A

APPLY A MATCHING ONE OF THESE TO THE POWER PLATE COVER IN THE HOUSING

Use Min 90°C Copper Conductors Only.
Input Terminal Wire Size Range:
6 to 12AWG (13mm² to 3.3mm²) Stranded.
INPUT: ONE 208/240VAC, 60Hz, 16A, 1Ø
OUTPUT: ONE 208/240 VAC, 60Hz, 16A
OR
TWO 8A MAX (16A COMBINED)

POWER SHARING JUMPERS INSTALLED.
Connect single power source only to right side port.

PANEL: 20AMP BREAKER ON EACH CIRCUIT

Use Min 90°C Copper Conductors Only.
Input Terminal Wire Size Range:
6 to 10AWG (13mm² to 5.3mm²) Stranded.
INPUT: ONE 208/240VAC, 60Hz, 24A, 1Ø
OUTPUT: ONE 208/240 VAC, 60Hz, 24A
OR
TWO 12A MAX (24A COMBINED)

POWER SHARING JUMPERS INSTALLED.
Connect single power source only to right side port.

PANEL: 30AMP BREAKER ON EACH CIRCUIT

Use Min 90°C Copper Conductors Only.
Input Terminal Wire Size Range:
6 to 8 AWG (13mm² to 3.3mm²) Stranded.
INPUT: ONE 208/240VAC, 60Hz, 32A, 1Ø
OUTPUT: ONE 208/240 VAC, 60Hz, 30A
OR
TWO 16A MAX (32A COMBINED)

POWER SHARING JUMPERS INSTALLED.
Connect single power source only to right side port.

PANEL: 40AMP BREAKER ON EACH CIRCUIT

Power Share - Overview of Steps

1. Install jumpers and connect the wiring
2. Apply the Electrical Rating label
3. Complete the station installation (for new installations)
4. Enable Power Share

Power Share - Step by Step Instructions

Step 1: Install jumpers and connect wiring

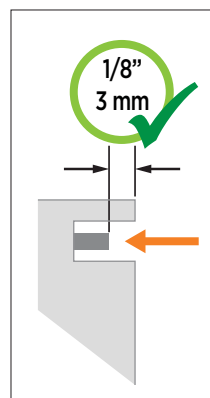
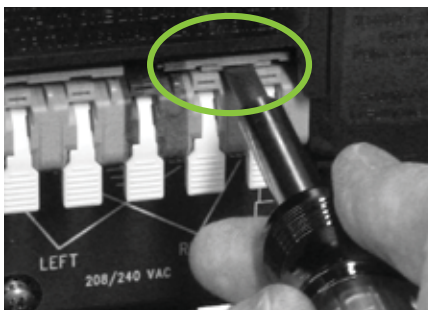
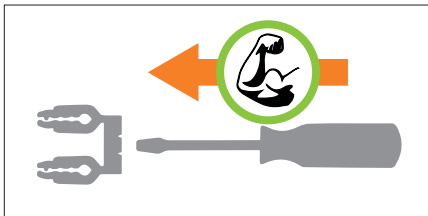


WARNING: Disconnect power before you begin.

Push the black tab on the terminal block to release the terminal block cover, then slide the cover up until it locks into the raised position:

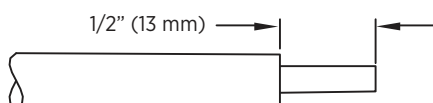


Insert the jumpers into the slots located near the upper edge of the terminal block. Using a large flat blade screwdriver, push firmly on each jumper until you feel it lock into place.



IMPORTANT: Ensure both jumpers are fully seated. The jumpers should recede 1/8" (3 mm) below the outer surface of the terminal block, as shown. If they are flush, they are not fully inserted.

Strip wires 1/2" (13 mm).



Lift the white lever on the terminal block that corresponds with the ground connection (center), insert the ground wire, then push the lever down until it clicks into its fully closed position.

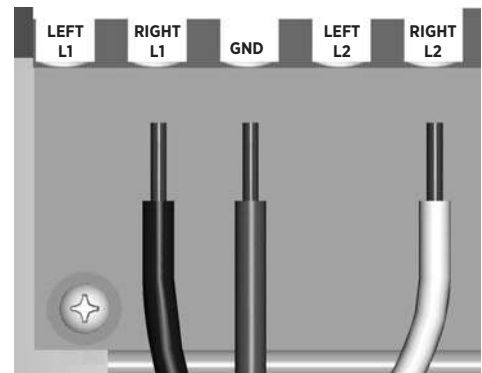
Lift the white levers on the terminal block that corresponds with the RIGHT port's L and N connections. Insert the L and N wires fully into the terminal block, then push the levers down until they click into their fully closed positions.

NOTE: The connections for the left port are not used. Power for the left port is carried through the jumpers.



WARNINGS:

- Use copper conductors only.
- Do NOT provide GFCI protection at the panel—the CT4000 has built-in GFCI protection.
- Use breakers rated at 40A (or lower, if you are configuring the station to operate at a lower current capacity as described on the following page).
- In areas with frequent thunder storms, add surge protection at the service panel for all circuits.
- **Use new circuit breakers only. Used breakers can damage equipment and cause a fire risk.**
- **Ensure all power and ground connections, especially those at the breaker, are clean and tight. Remove all oxide from all conductors and terminals before connecting wiring.**



Step 2: Apply the Electrical Rating labels

Described on page 5.

Step 3: Complete the station installation

Install the head assembly and top cap as described in the CT4000 Installation Guide.

Step 4: Enable Power Share

Power up the station. If the station displays the Installation Wizard, follow the onscreen instructions to enable Power Sharing. If the station does not display the Installation Wizard, configure Power Sharing using the Service Menu as described below.

Display the station's Service Menu:

- if the station is not activated on ChargePoint, simultaneously press and hold the two leftmost buttons and the rightmost button for two seconds.
- if the station is activated on ChargePoint, scan your ChargePoint Service card.

Select **Basic mode**.

Scroll down to select **Power Sharing Configuration**.

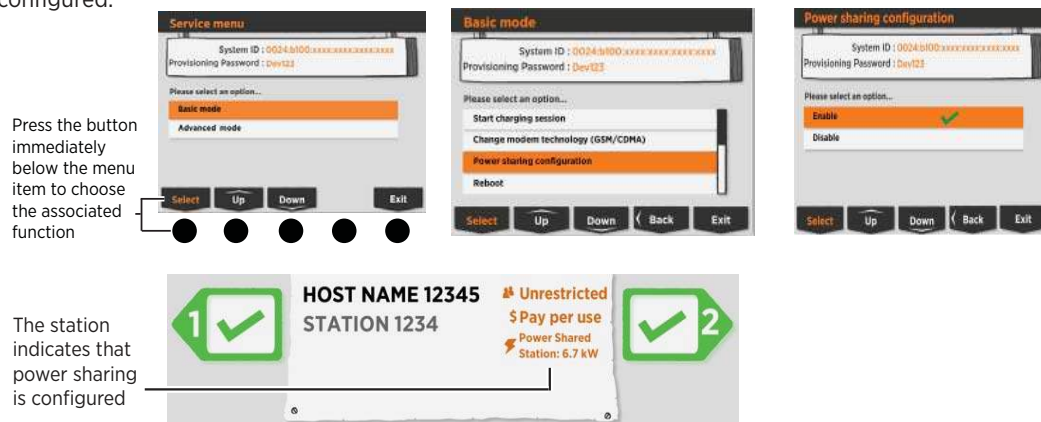
Select **Enable**.

Select **Exit** to leave the Service Menu.

Confirm that the station's display indicates that power sharing has been configured.



If the Installation Wizard does not display upon power up, simultaneously press and hold these three buttons for two seconds to display the Service Menu on an unactivated station



Power Select - Overview of Steps

1. Configure Power Select
2. Apply the Electrical Rating label

Power Select - Step by Step Instructions

Step 1: Configure Power Select

Power up the station. If the station displays the Installation Wizard, follow the onscreen instructions to enable Power Select. If the station does not display the Installation Wizard, configure Power Select using the Service Menu as described below.

Display the station's Service Menu:

- if the station is not activated on ChargePoint, simultaneously press and hold the two leftmost buttons and the rightmost button for two seconds.
- if the station is activated on ChargePoint, scan your ChargePoint Service card.

Scroll down to select **Circuit Breaker Configuration**.

Choose the breaker size that matches what is installed for the station.

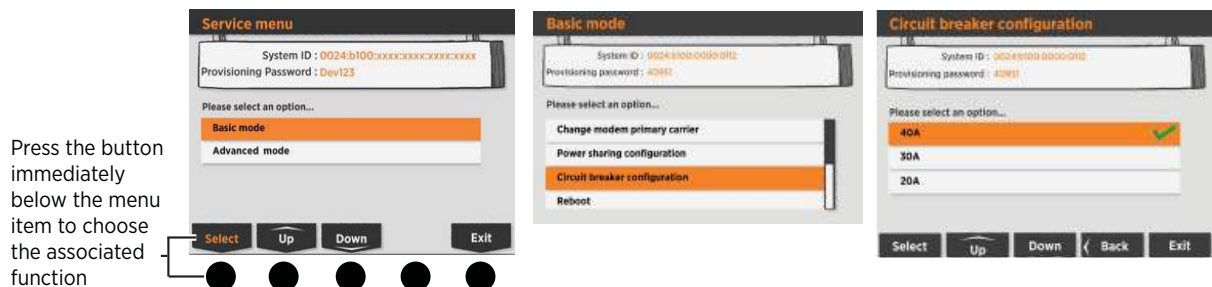
Select **Exit** to leave the Service Menu.

NOTE: If you make an error when using the Installation Wizard, your ChargePoint Network Manager can change the station's settings by logging into ChargePoint, selecting the station from the Manage Stations page, selecting the Configuration tab, and then clicking Edit to modify the station's Power Sharing and Power Select settings.

If the station must be reconfigured using the Installation Wizard, contact ChargePoint Customer Support at 1-877-850-4562 to have the station reset to its factory default configuration.



If the Installation Wizard does not display upon power up, simultaneously press and hold these three buttons for two seconds to display the Service Menu on an unactivated station



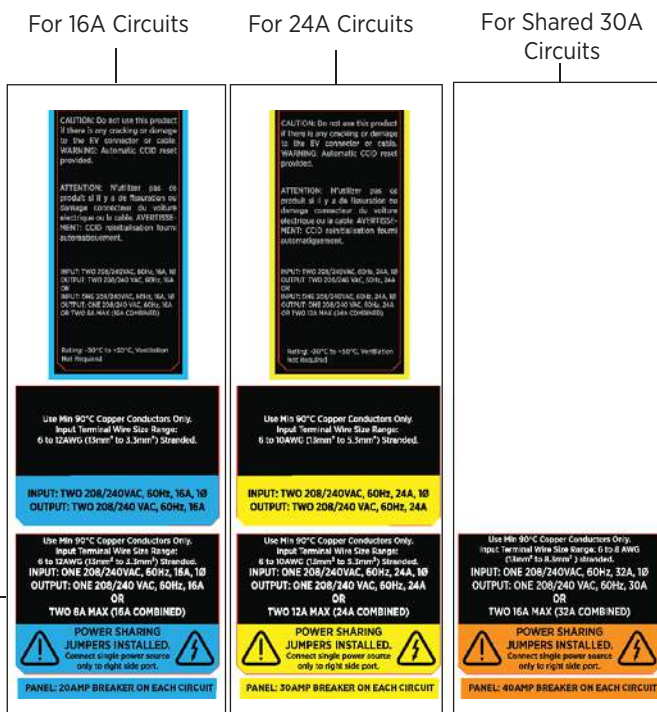
Step 2: Apply the Electrical Rating label

See next page.

Applying the Electrical Rating Label

Step 1: Choose the appropriate label

If both ports are sharing a single circuit, you must use the appropriate power sharing label from the bottom row



Step 2: Apply a label to the terminal block cover

Apply a label to the left side of the terminal block cover, just above the terminal block.

NOTE: Leave the terminal block cover in the raised position to facilitate connection of the head assembly.

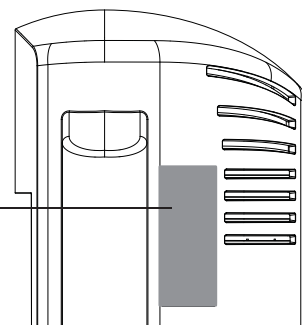
Electrical Rating Label on Terminal Block Cover



Step 3: Apply a label to the top cap

Apply the corresponding label to the right side of the Top Cap, behind the cable exit.

Electrical Rating Label on Top Cap





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