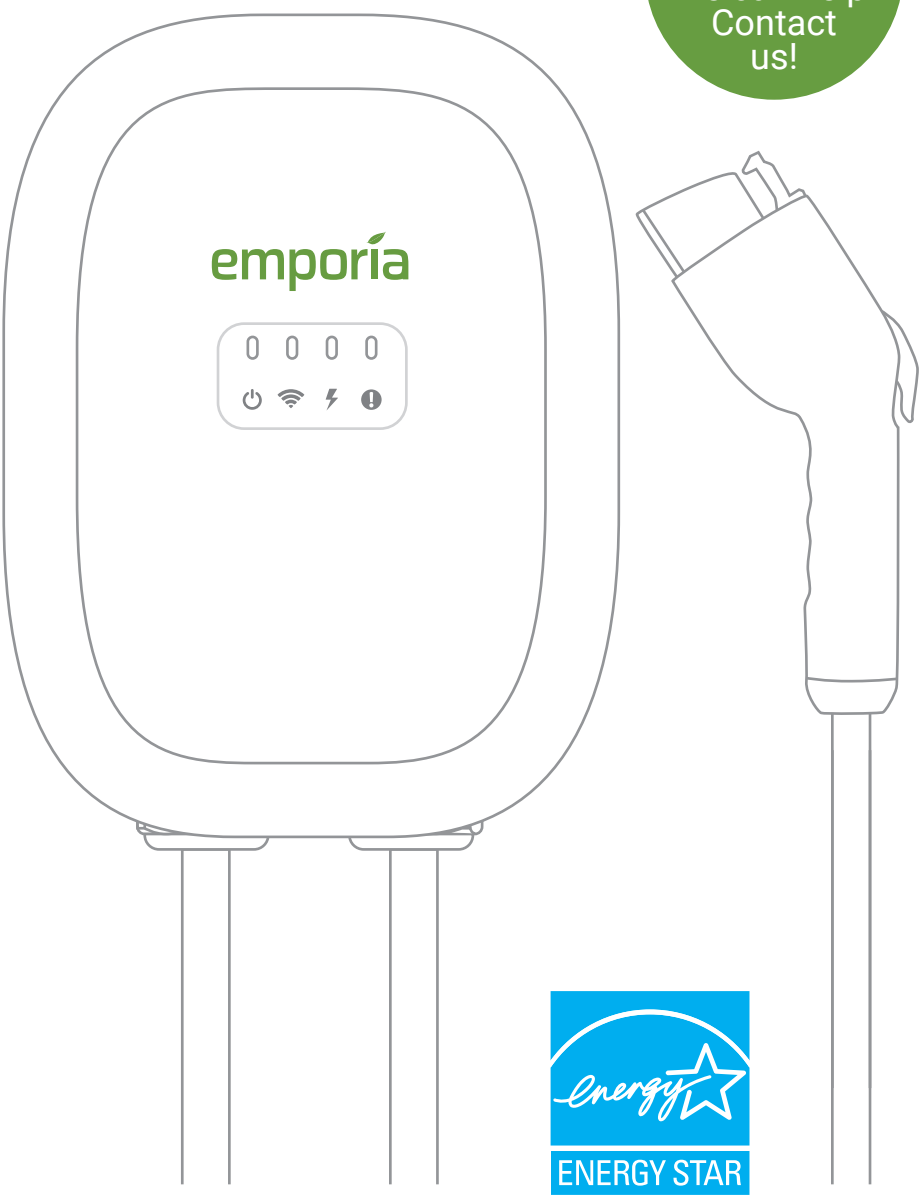
emporia

Don't have enough power/amps? We can help! Contact us!



ENERGY STAR

Smart Home

EV Charger

Installation and Usage Guide

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK!

Improper connection of the equipment-grounding conductor may result in a risk of electric shock, leading to death or serious injury. Emporia recommends that installation be performed by a licensed electrician or other qualified professional in accordance with the regional electrical code where it is being installed to ensure the Emporia EV Charger is properly grounded. Do not modify the provided plug – if it will not fit the outlet, have a proper outlet installed by a licensed electrician or other qualified professional.

GROUNDING INSTRUCTIONS

For Plugged-In Installation:

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING - Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded.
Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

For Hardwired Installation:

This product must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.

Safety information

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK

- Read all the instructions before using this product.
- This device should be supervised when used around children.
- Do not put fingers into the electric vehicle or charger connectors.
- The Emporia EV Charger is intended for use with electric vehicles only. Specifically, it is intended only for electric vehicles not requiring ventilation during charging.
- The Emporia EV Charger is intended to be installed in stationary, grid-tied power systems. Do not use the Emporia EV Charger with back-up generators.
- Do not use the Emporia EV Charger in any manner other than specified in this installation guide.
- Do not attempt to disassemble or repair any of the components of the Emporia EV Charger. There are no user serviceable parts inside.
- Do not use this product if the flexible power cord or charging cable is frayed, has broken insulation, or any other signs of damage.
- Do not use this product if the enclosure or the connector gun is broken, cracked, open, or shows any other indication of damage.
- Do not install the Emporia EV Charger in environments with explosive gas or vapors; nor where temperatures are outside its operating range of -22°F to 122°F (-30°C to 50°C).
- Use 194°F (90°C) wire, 6 AWG copper when installing a 48A connection in a hardwire installation.

Moving and storage Instructions

- Improper moving or storage of the Emporia EV Charger may result in damage to the product that could result in a risk of fire or electric shock during subsequent use.

- Handle charger and packaging with care and avoid dropping it. When moving or lifting the Emporia EV Charger, always grasp the unit by the charging station enclosure. Never carry or lift the Emporia EV Charger by either the power cable or charging cord.

- Store the Emporia EV Charger indoors and in its original packaging until it is ready to be installed. Storage temperature should be between -22°F to 122°F (-30°C to 50°C).

- Always place protective cover over the J1772 EV charger connector when not in use. The NACS connector does not have a cover.

- Modifying the EV Charger in any way not outlined in this installation guide, including drilling holes in the charger will void the manufacturer warranty.

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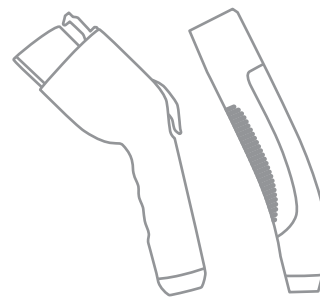
What's in the box

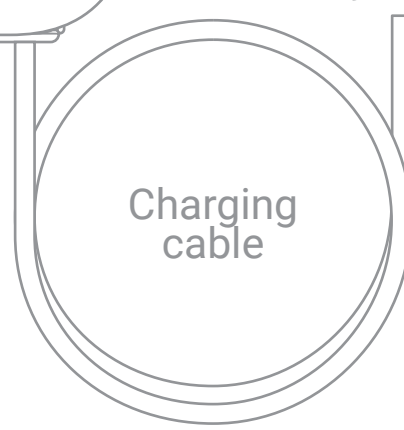
Your new Emporia EV Charger contains the following items. **If any of these items are missing or if you believe they've been damaged, call support immediately.**

Charging station

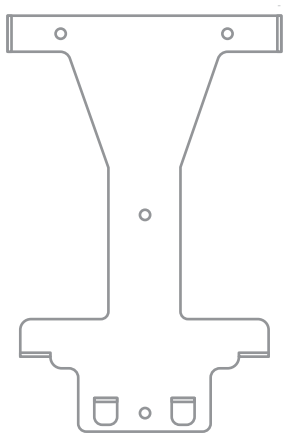


SAE J1772 or NACS connector gun

Power cable with NEMA 14-50 plug or Hardwire Whip



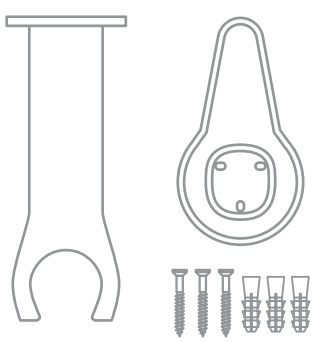
Charging cable



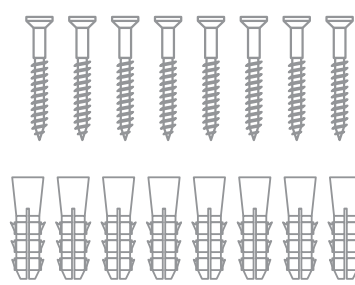
Mounting bracket

Four M5X10 Phillips screws

Allen wrench



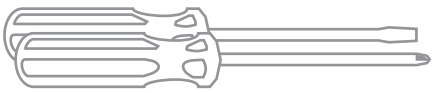
Cradle for J1772 or NACS connector gun (See Step 5)



Eight 7/32 inch #12 Phillips screws and drywall anchors

Before you get started

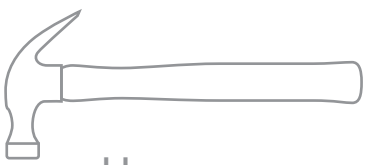
Here are the tools you will need to install the Emporia EV Charger:



Phillips and flathead screwdrivers

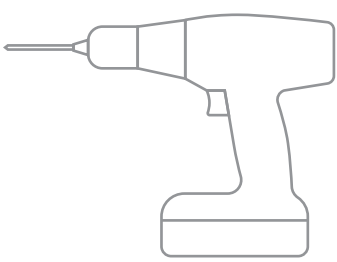
Bubble level

Pencil



Hammer

iOS or Android phone or tablet



Drill with $^{5}/_{16}$ inch (8mm) and $^{1}/_{4}$ inch (6mm) drill bits

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Step 1: Get the app and check Wi-Fi

The Emporia EV Charger is capable of charge a vehicle at 40A on a 50A breaker (NEMA 14-50) or 48A on a 60A+ breaker (hardwired). The Emporia Energy app and a WiFi connection are required to take advantage of its smart functions, including: changing the charging rate, integrating with Emporia products and other smart devices, and energy management features.

Download the **Emporia Energy app** onto your phone or tablet from the Apple App Store, from Google Play, or from emporiaenergy.com/app. **Create an account and begin the setup process**.

You can also use your phone to check the signal strength of your Wi-Fi network where the EV Charger will be installed. Low/no signal may require a Wi-Fi extender for the smart features to work.

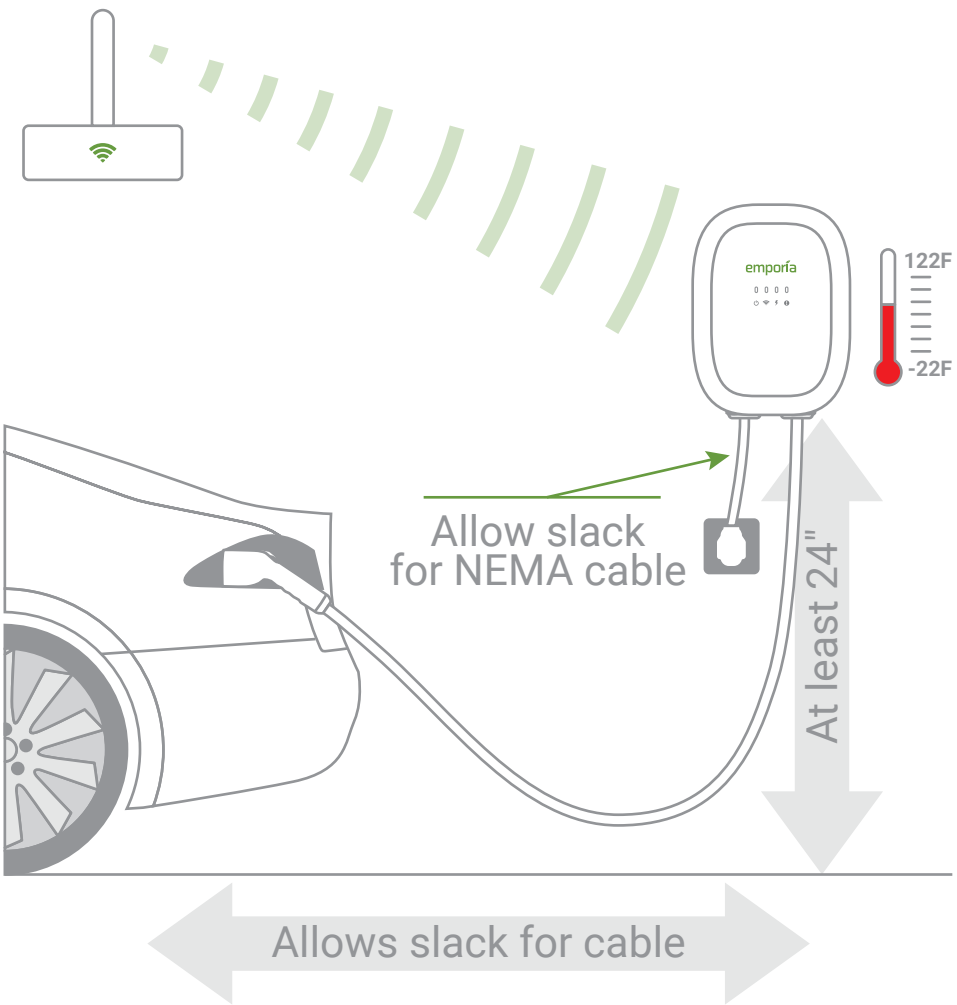
Download on the App Store

GET IT ON Google Play

emporiaenergy.com/app

Step 2: Find a place for the EV Charger

The bottom of the charging station should be wall-mounted at least 24” (610 mm) above the floor or grade. Ensure that there is sufficient slack in the charging cable to reach the vehicle charging port, as well as sufficient slack in the NEMA power cable to reach the outlet (if using the NEMA 14-50 version). The charging station should be installed where temperatures remain between -22°F to 122°F (-30°C to 50°C).



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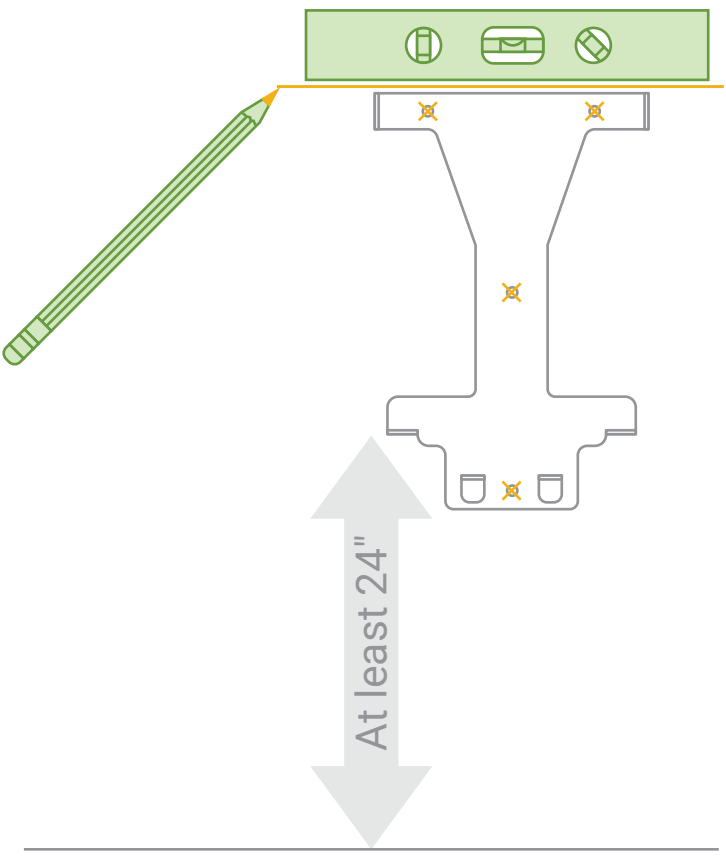
Step 3: Mark the mounting bracket location

On the wall where the charging station will be installed, use a bubble level to **draw a horizontal line** where the top of the charging station will sit on the wall ensuring it is mounted at a sufficient height at least 24” (610 mm) above the floor or grade and allows slack for the NEMA cable if it will be plugged in. Then, align the top of the mounting bracket to the line and **mark the 4 mounting holes**.



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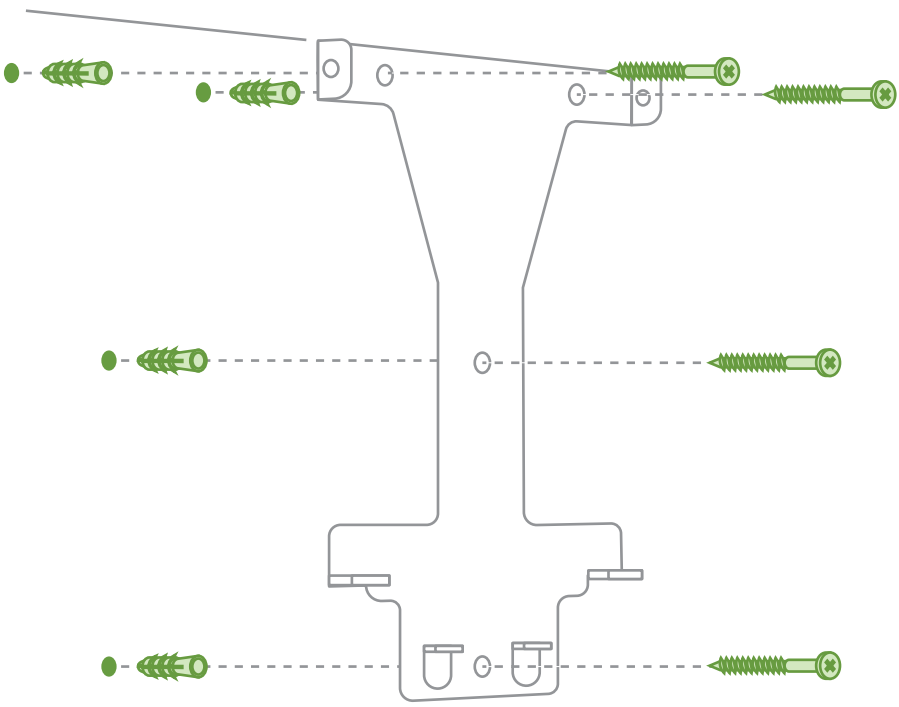
Step 4: Install the mounting bracket

For each mark, drill a 5/16 inch (8mm) hole in the wall. Use a hammer to tap in the 4 drywall anchors. Install the mounting bracket with the 4 Phillips screws into the anchors.



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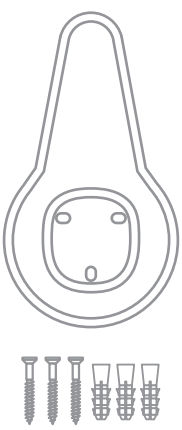
Step 5: Install the connector gun cradle

The Emporia EV Charger comes with either a J1772 or a NACS connector gun. These variations come with a corresponding cradle. Please identify the cradle that came with your EV Charger and follow the subsequent instructions to install the cradle for your charger.

J1772 gun cradle
To install under the charger, see Step 5a

To install beside the charger, see Step 5b



NACS gun cradle
To install beside the charger, see Step 5c

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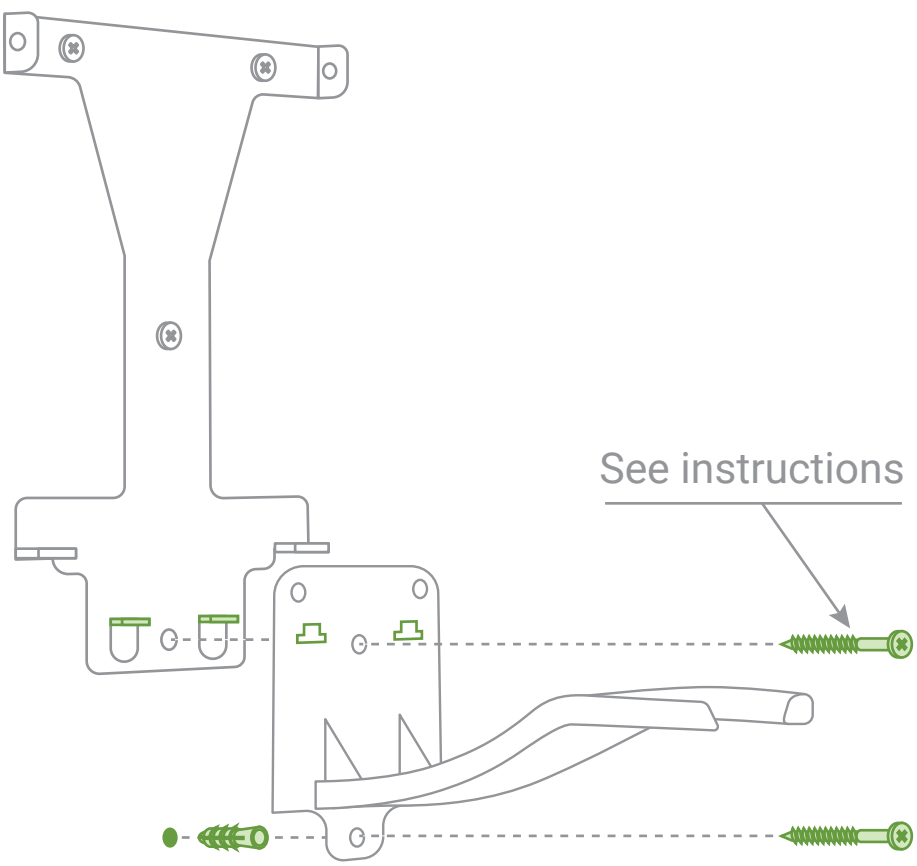
Step 5a: Install the J1772 cradle under the charger

The gun cradle is designed to be installed directly under the charging station. If you wish to install it to the side of the charging station, skip to Step 5b. First, remove the bottom screw from the mounting bracket placed in Step #4. Next, hang the cradle on the mounting bracket hooks. Next, mark the bottom mounting hole of the gun cradle. Next, drill a 5/16 inch (8mm) hole in the wall at your mark. Then, use a hammer to tap in a drywall anchor. Finally, install the gun cradle with 2 Phillips screws into the anchors.



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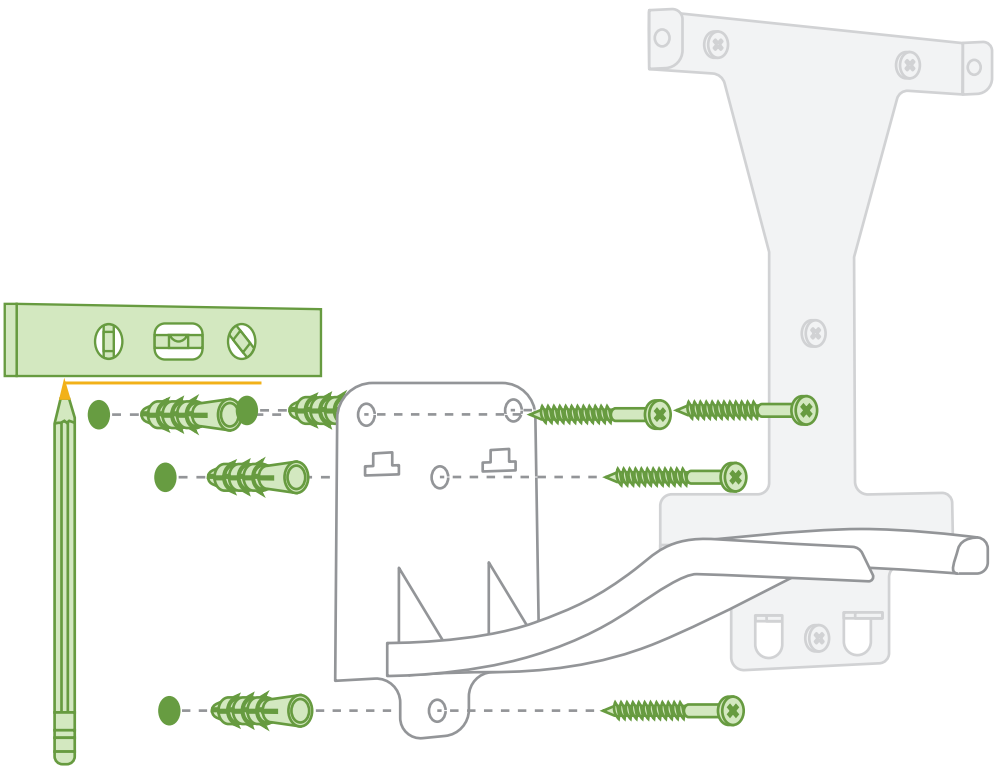
Step 5b: Install the J1772 cradle beside the charger

First, use a bubble level to draw a horizontal line at least 12” away from the mounting bracket at the height you’d prefer. Next, holding the gun cradle up to the line, mark the 4 mounting holes of the gun cradle. Next, drill a 5/16 inch (8mm) in the wall for each mark. Then, use a hammer to tap in 4 drywall anchors. Finally, install the gun cradle with 4 Phillips screws into the anchors.



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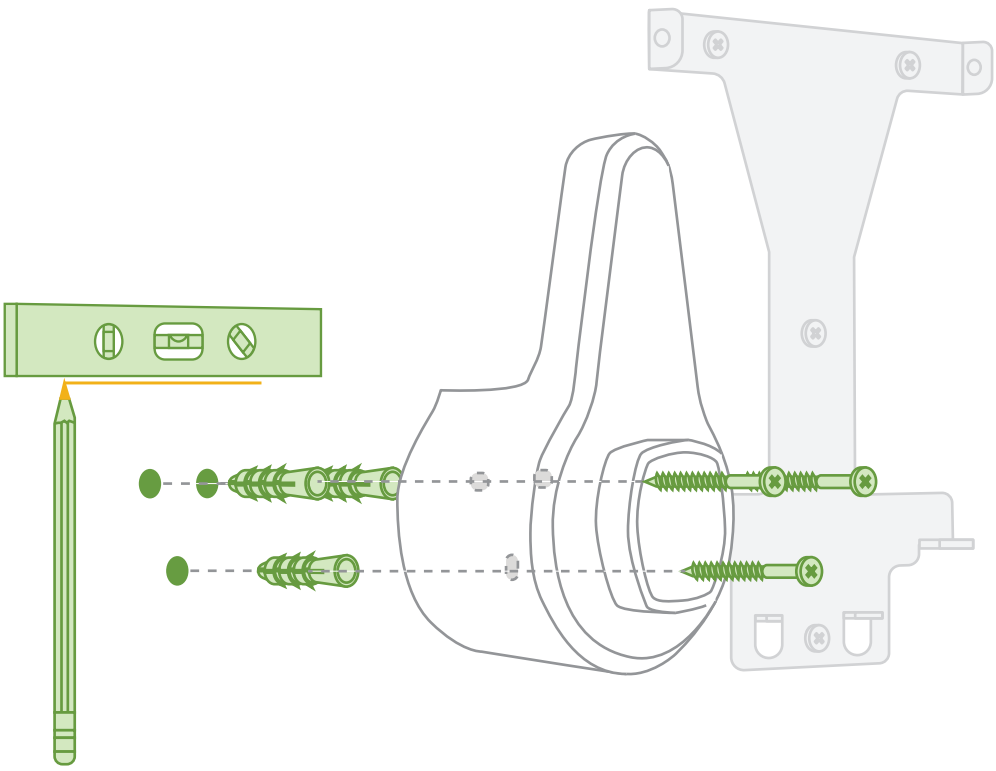
Step 5c: Install the NACS cradle beside the charger

First, use a bubble level to draw a horizontal line at least 12” away from the mounting bracket at the height you’d prefer. Next, holding the flat part on the top of the gun cradle up to the line, mark the 3 mounting holes of the cradle. Next, drill a 1/4 inch (6mm) hole in the wall for each mark. Then, use a hammer to tap in 3 drywall anchors. Finally, install the gun cradle with 3 Phillips screws into the anchors.



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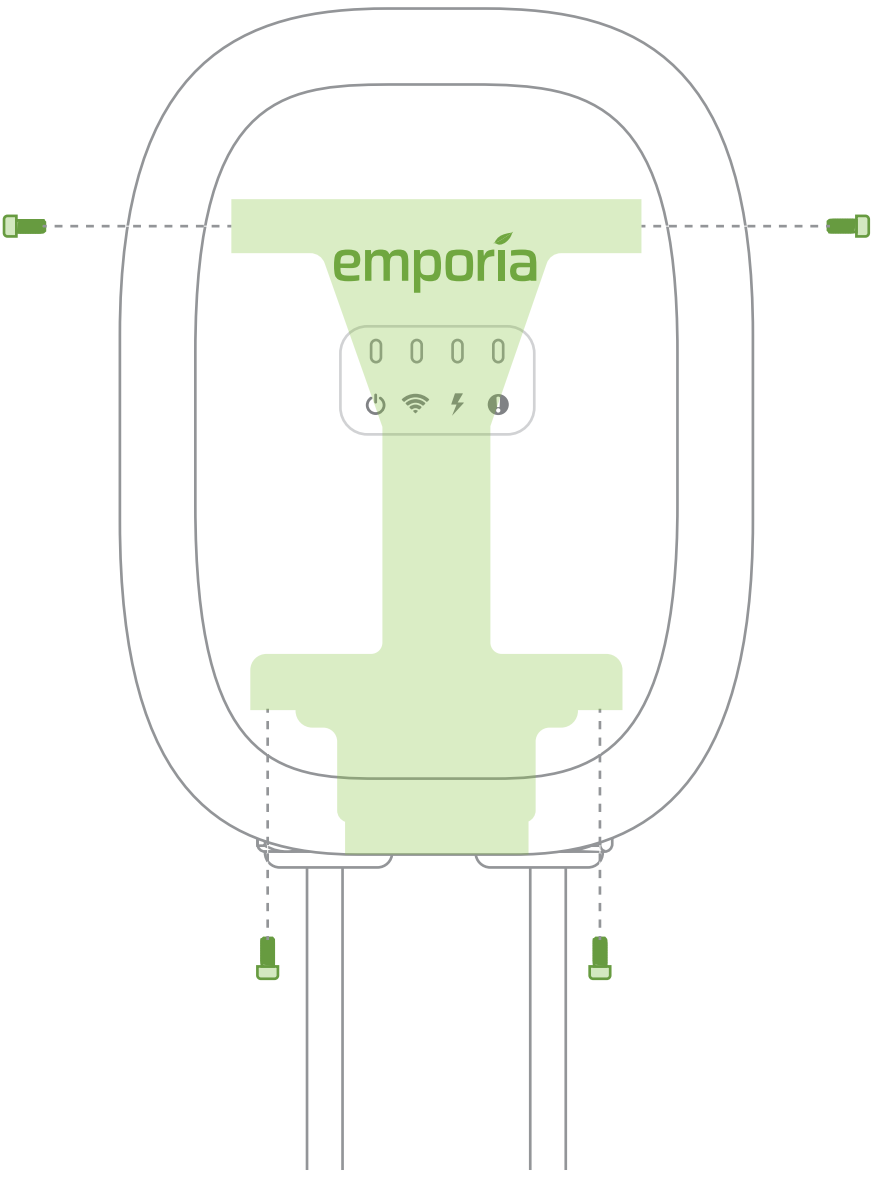
Step 6: Mount the charging station

Use a Phillips screwdriver and the 4 Phillips bolts to install the charging station on the mounting bracket.



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Step 7: Electrician instructions

The Emporia EV Charger comes pre-configured with 1 of 2 power input types.

Plugged-in (NEMA 14-50 plug)
See Step 7a

- EV Charger can supply a max charge of 40A
- Requires a dedicated, dual-pole breaker (50A recommended for full 40A Charge Rate) and a NEMA 14-50 receptacle outlet
- Can be converted to Hardwired. Visit emporiaenergy.com/installation-guides

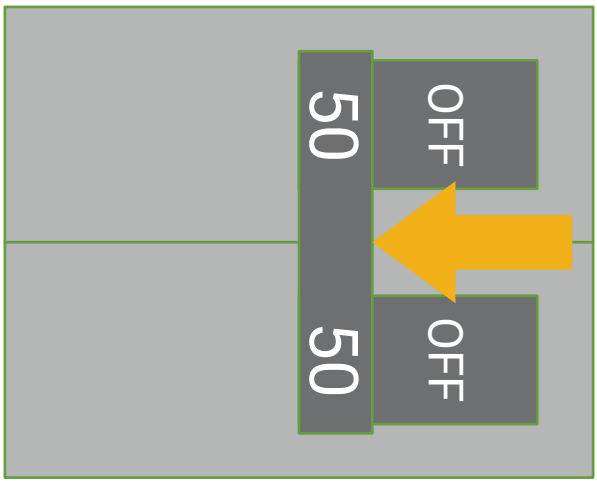
Hardwired (whip conduit)
See Step 7b

- EV Charger can supply a max charge of 48A
- Requires a dedicated, dual-pole breaker (60A recommended for full 48A Charge Rate). **CAUTION: To reduce the risk of fire, connect only to a circuit with 60A maximum branch circuit over current protection in accordance with the National Electrical Code, ANSI/NFPA 70, the Canadian Electrical Code, Part I, C22.1, and any local electrical codes.**

Dedicated Breaker	Charge Power @ 240V	
15A	2.9kW	12A
20A	3.8kW	16A
25A	4.8kW	20A
30A	5.8kW	24A
35A	6.7kW	28A
40A	7.7kW	32A
45A	8.6kW	36A
50A	9.6kW	40A
60A	11.5kW	48A

Step 7a-1: Plugged-in instructions for electricians

If a NEMA 14-50 receptacle outlet is not already at the charging station location, a licensed electrician or other qualified professional can follow these instructions to install one. **First, turn off the dedicated dual-pole breaker that will power the EV Charger. This breaker size needs to be set in the Emporia app and protected by a PIN in Step 8.**



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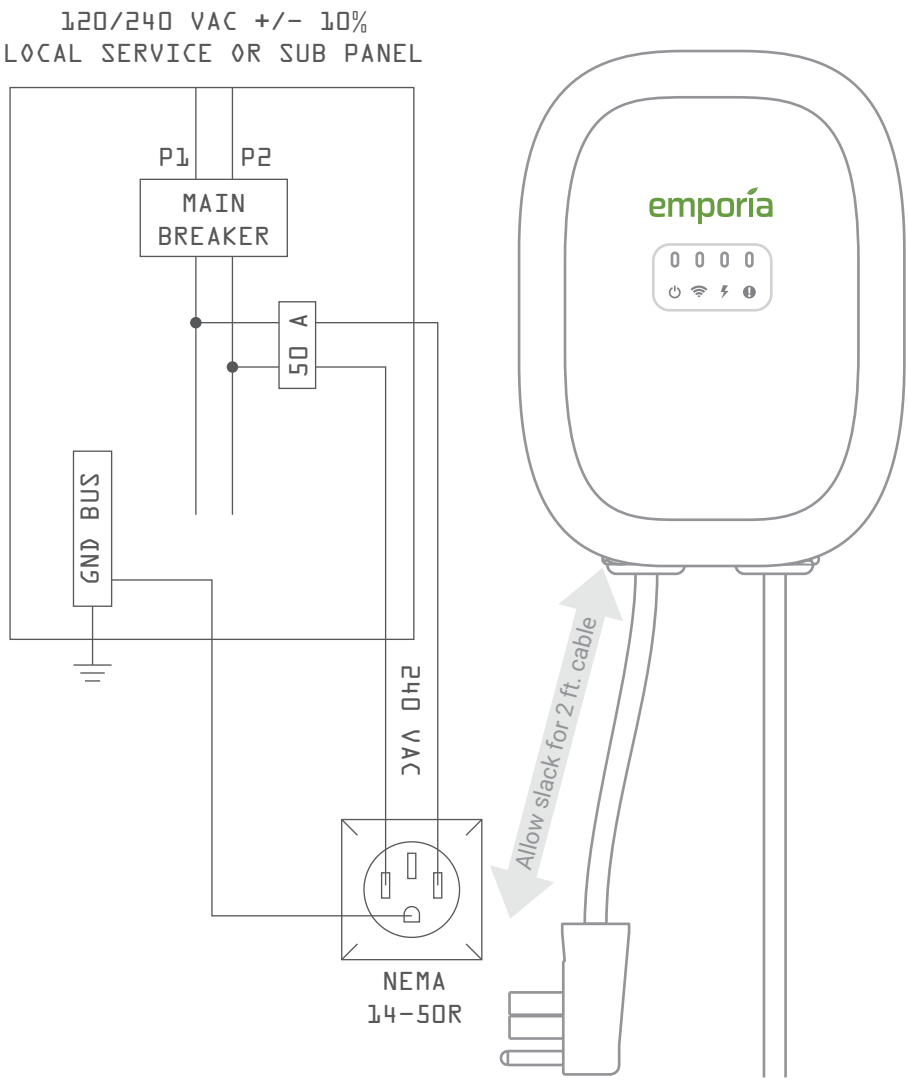
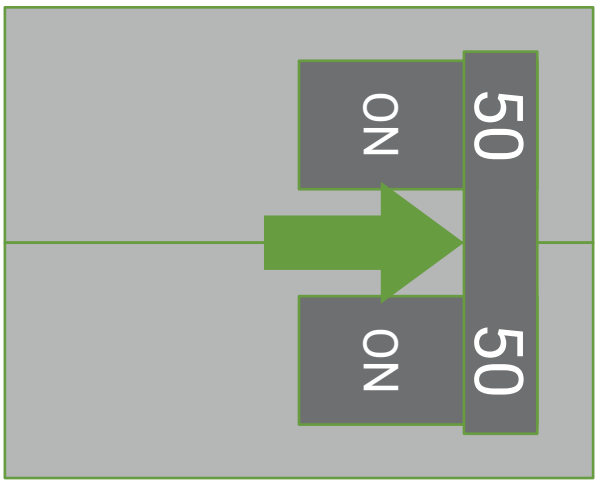
Step 7a-2: Plugged-in instructions for electricians

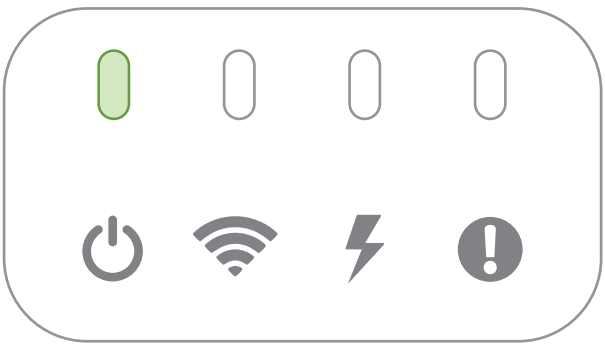
Install a NEMA 14-50 receptacle outlet with the ground facing downward ensuring the distance between the NEMA outlet and the charging station allows slack for a short cable. Bring leads from both phases of the breaker along with a ground/earth lead to the outlet and connect them. **Neutral is not required.**



Step 7a-3: Plugged-in instructions for electricians

Plug in the NEMA 14-50 plug from the charging station into the receptacle outlet. Turn on the breaker and ensure that the power light on the front of the charging station is illuminated.





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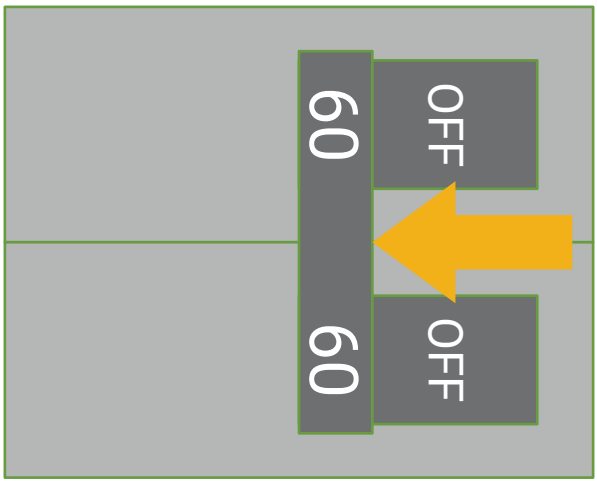
Step 7b-1: Hardwired instructions for electricians

A licensed electrician or other qualified professional can follow these instructions to hardwire the charging station to a breaker. **First, turn off the dedicated dual-pole breaker that will power the EV Charger. This breaker size needs to be set in the Emporia app and protected by a PIN in Step 8.**



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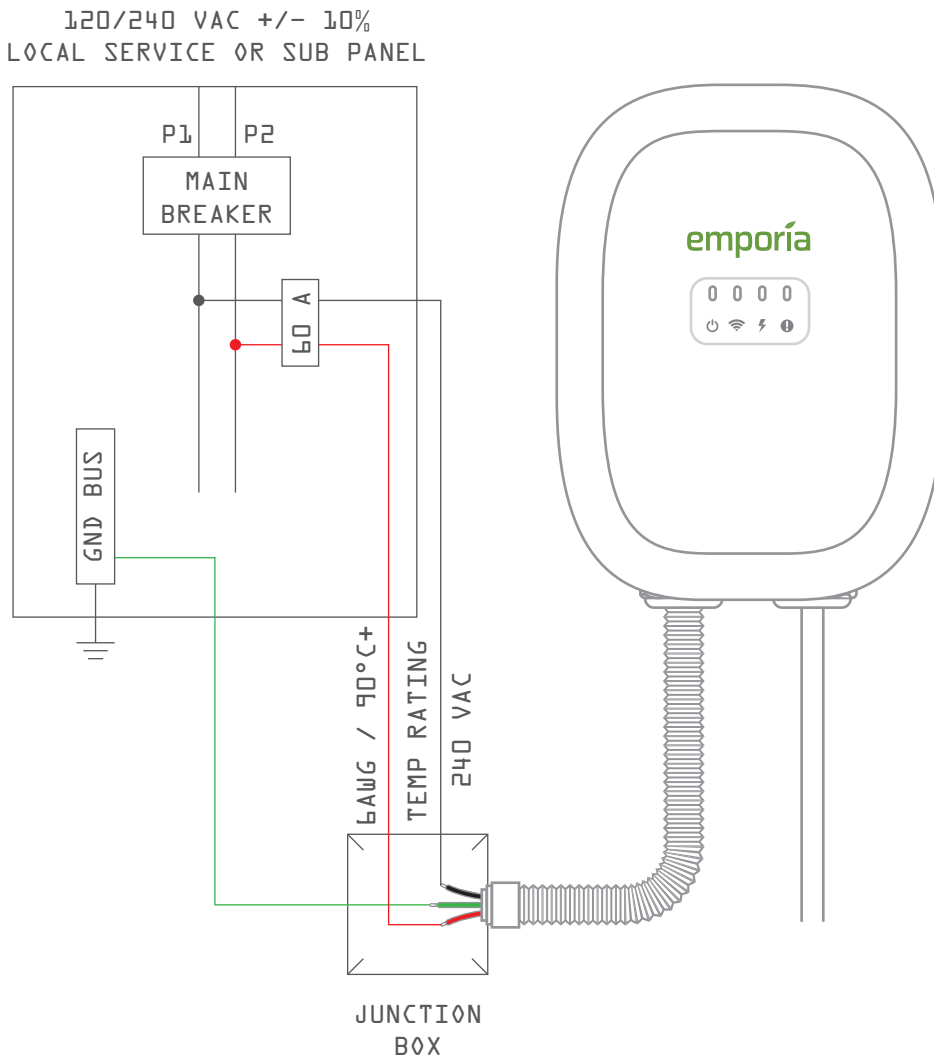
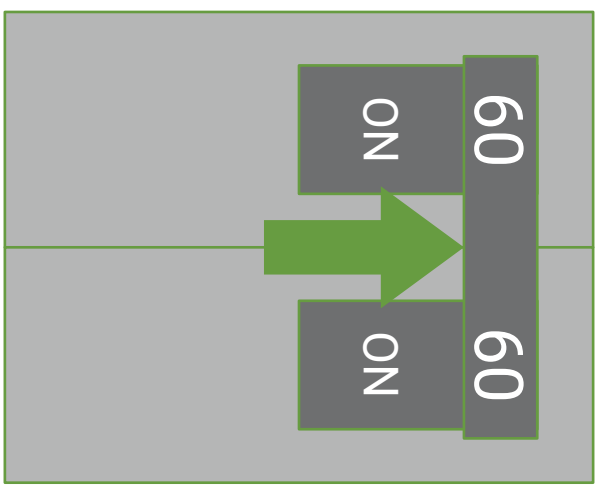
Step 7b-2: Hardwired instructions for electricians

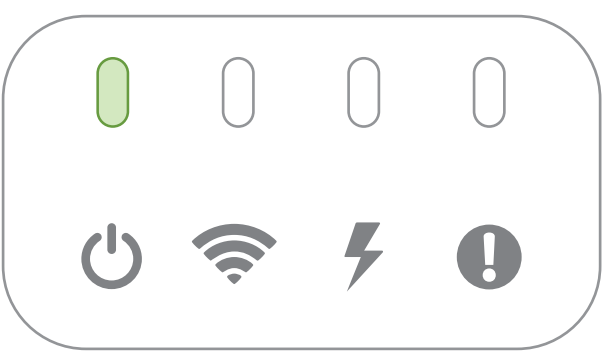
Use 90°C wire, 6 AWG copper from both phases of the breaker along with a ground/earth lead coming from the charging station hardwire whip conduit. Bring leads from both phases of the breaker along with a ground/earth lead to a junction box and connect them to the **Line 1** (120V AC to Ground), **Line 2** (120V AC to Ground), and **Ground** from the Charger. Then, connect the ¾" NPT conduit fitting and sealing washer through a 1 ⅛" tap to the junction box for a watertight seal.



Step 7b-3: Hardwired instructions for electricians

Turn on the breaker and ensure that the power light on the front of the charging station is illuminated.





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Step 8: Complete setup

Your Emporia EV Charger is now ready to charge your vehicle. It is set from the factory to charge at 40 Amps (NEMA 14-50) or 48 Amps (Hardwired). To raise or lower the charge rate to match your breaker size and installation type, as well as to take advantage of the numerous other features available from Emporia, return to the Emporia App, choose Add a Device under Manage Devices and follow the instructions to set up your EV Charger. **A PIN must be set in the app when setting the breaker size.** Once your phone has connected to the EV Charger via Bluetooth, you'll be prompted to connect to a nearby Wi-Fi router. Make sure you have your Wi-Fi network name and password available.

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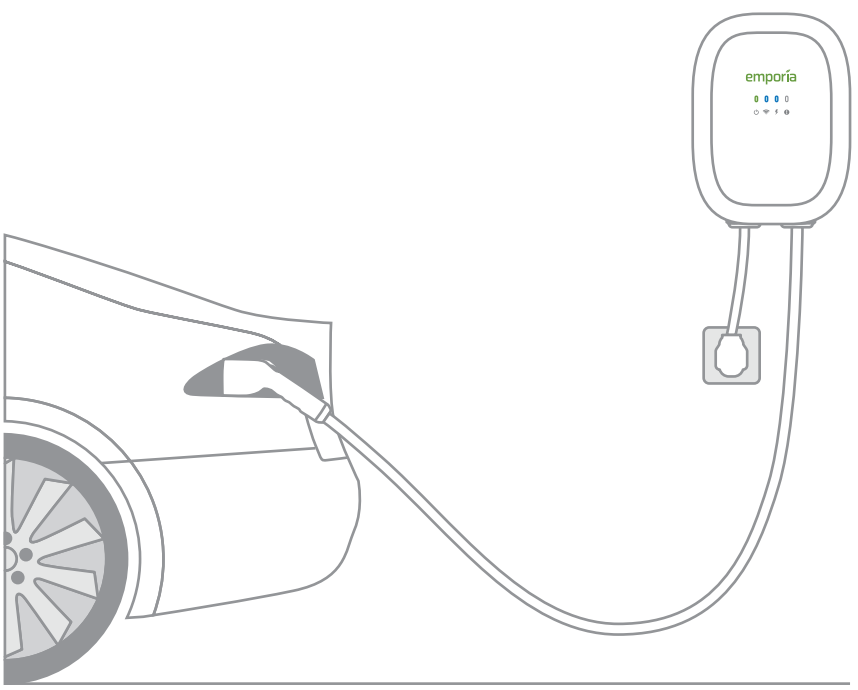
Charging your vehicle

Each time the EV Charger is used, the cables, charging gun, and charging station should be inspected for damage. To charge your vehicle, open the vehicle port door and plug the connector gun into the port. You will see the charge light on the EV Charger switch to solid blue when it is connected to the vehicle. It will begin breathing blue as the vehicle charges. Additionally, most EVs have indicator lights on the dashboard to let you know that you're charging. Do not attempt to drive your vehicle while the charge cable is connected to your vehicle. Please contact Emporia Customer Support with any questions.



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EV Charger LED lights

Power	
Off	Charger does not have power
Solid green	Charger has power
Charge	
Off	No vehicle connected
Solid Blue	Vehicle connected
Flashing Blue	Offering charge
Breathing Blue	Vehicle charging
WiFi	
Solid Red	Not connected to router
Flashing Red	Lost connection to router
Flashing Green	Connecting to router
Solid Green	Connected to router, but not the Internet
Solid Blue	Connected to the router and the Internet
Fault	
Flashing orange 1 slow/1 fast	Abnormal control pilot circuit Unplug and plug-in Emporia EV Charger. If issue persists, contact Support.
Flashing orange 1 slow/2 fast	Charger has exceeded operating temperature lower bound. Ensure the charger is installed where temperatures do not drop below -22F (-30C)
Flashing orange 1 slow/3 fast	Input voltage is too low If plugged in, check that the NEMA 14-50P is plugged in securely. Check the supply breaker in your breaker panel for damage and replace if necessary. If issue persists, contact Support.
Flashing orange 1 slow/4 fast	Input voltage is too high If plugged in, check that the NEMA 14-50P is plugged in securely. Check the supply breaker in your breaker panel for damage and replace if necessary. If issue persists, contact Support.
Flashing orange 1 slow/5 fast	Charger has exceeded nominal temperature Ensure the charger is installed where ambient temperatures will not exceed 122°F (50°C). If issue persists, contact Support.

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EV Charger LED lights (cont.)

Fault (cont.)	
Flashing orange 1 slow/6 fast	Output surge current Unplug from car. Disconnect charger from power. Confirm there is no visible damage or foreign material in the EV gun. Return power to charger. If issue persists, contact Support.
Flashing orange 1 slow/7 fast	Current leakage Unplug from vehicle. Disconnect charger from power. Confirm there is no visible damage or foreign material in the EV gun. Return power to charger. If issue persists, contact Support.
Flashing orange 1 slow/8 fast	Output short circuit Unplug from vehicle. Disconnect charger from power. Confirm there is no visible damage or foreign material in the EV gun. Return power to charger. If issue persists, contact Support.
Flashing orange 1 slow/9 fast	Output over current Unplug from vehicle. Disconnect charger from power. Confirm there is no visible damage or foreign material in the EV gun. Return power to charger. If issue persists, contact Support.
Flashing orange 2 slow/1 fast	Vehicle is not responding. Ensure that the latch on the EV charging cable handle is locked into place. If the handle is not latched securely, the vehicle will not charge. If the latch is pressed down during charging, charging automatically stops. Ensure that the vehicle is not set up to begin charging at a specific time of day.
Flashing orange 2 slow/2 fast	Vehicle interface issue. Ensure that the latch on the EV charging cable handle is locked into place. If the handle is not latched securely, the vehicle will not charge. If the latch is pressed down during charging, charging automatically stops. Ensure that the vehicle is not set up to begin charging at a specific time of day.
Flashing orange 2 slow/3 fast	Relay fused in position Disconnect from power immediately. Contact Support.
Flashing orange 2 slow/5 fast	Charger is not grounded Ensure that the EV Charger is properly wired and grounded. Check the line and neutral connections, as they may be reversed in the adapter or outlet. Unplug and reboot EV charger. If issue persists, contact Support.
Flashing orange 3 slow/1 fast	The vehicle is requesting ventilation during charging, which is not supported by the Emporia EV Charger. Contact Support.
Flashing orange 3 slow/2 fast	The vehicle is requesting charge but the charger is not ready. Unplug the gun from the port and plug it back in again. If issue persists, contact Support.

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Troubleshooting Tips

The Emporia app is not finding my EV Charger after I've installed it.

- Ensure the Charger has power:
  - Check for a green power light.
  - Check the EV Charger is wired properly.
  - Check that the breaker powering the EV Charger is turned on.
- Ensure your phone can connect to the EV Charger.
  - Check your phone's Bluetooth is on.
  - If you're using an Android, turn on Location Services for your phone to properly scan for Bluetooth devices.
- Try power cycling the breaker to which the EV Charger is connected.
- Try restarting the Emporia App.
- Try rebooting your phone.

My vehicle is not responding or charging.

- Ensure that the latch on the EV charging cable handle is locked into place. If the handle is not latched securely, the vehicle will not charge. If the latch is pressed down during charging, the charging automatically stops.
- Ensure that the vehicle is not set up to begin charging at a specific time of day, location, or some other setting that is preventing charging.
- Ensure the EV charger icon is in a **blue** ready state on home page. If it is in a **green** paused state tap the icon to un-pause charger.

Technical Specifications

Input Voltage	208/240VAC 50/60Hz
Power Charge	11.5kW (240V/48A) / 9.6kW (240V/40A) / 10kW (208V/48A) / 8.3kW (208V/40A)
Required Breaker	Dedicated 50A+ dual pole for 40A Dedicated 60A+ dual pole for 48A
Connector	24’ cable SAE J1772 or NACS connector
Power Wiring	NEMA Type 14-50 (up to 40A) with < 6 ft long cable, compliant with 2023 NEC Section 625.17(A)(3)(a)(ii) / Hardwired (up to 48A)
Enclosure	Watertight NEMA Type 4 indoor/outdoor
Temp Range	-22°F to 122°F (-30°C to 50°C)

FCC ID: 2AS6P-EMEVSE1
Model: EMEVSE1

UL CERTIFIED
SAFETY US·CA
E528156

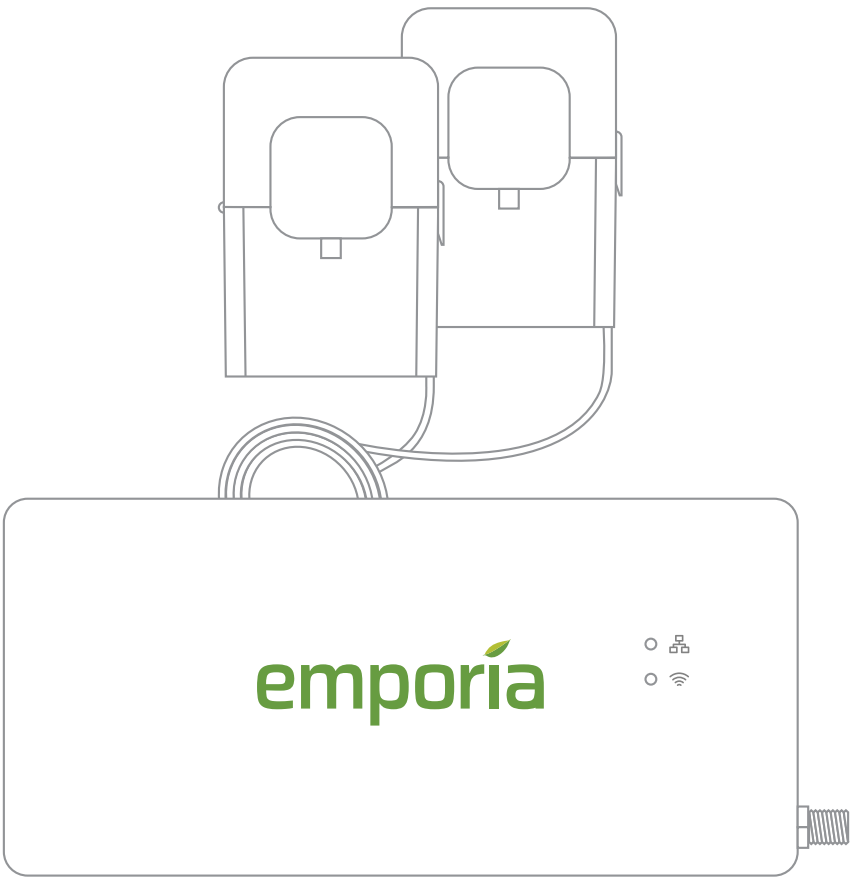
IC: 28084-EMEVSE1
CAN ICES-003(B) / NMB-003(B)

The Emporia Smart Home EV Charger contains FCC ID: 2AS6P-EMEVSE1. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Caution: Any changes or modifications not expressly approved by Emporia void the user's authority to operate the equipment.

Designed in Colorado, USA. Manufactured in India.
603-00009 Rev D

emporia



VUE

Smart Home Energy Monitor

Gen 3

Installation Guide

Safety information

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.

⚠WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠WARNING

The Emporia Vue requires installing transformers inside a home's electrical panel and working around dangerous voltage that could lead to injury or death. The installation should be performed by a skilled person such as a licensed electrician or other qualified professional in accordance with the regional electrical code where it is being installed.

Improper installation or use of the equipment can be dangerous or even fatal. In no event shall Emporia be liable to you or any third party for any damages, either direct or indirect, arising from or related to any personal injury as a result of your failure to follow the safety information and instructions in this Installation Guide.

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Safety information (continued)

⚠WARNING

- Remove power from the electrical panel before inspecting. Wear protective eyewear and protective gloves before attempting to inspect the Vue system. Ensure no wiring for voltage measurement, current measurement, power, or data are frayed or have exposed conductors. Ensure there are no cracks, breaks, or other defects in the enclosure of the Vue or CTs.
- If you believe any of the Emporia Vue components may have been damaged, do not attempt to use them. Contact support at support@emporiaenergy.com immediately.
- Do not use the Emporia Vue in any manner other than specified in this installation guide, otherwise, the protection provided by the equipment may be impaired.
- Do not attempt to open, disassemble, or repair any of the components of the Emporia Vue.
- Do not install the Emporia Vue in environments with explosive gas or vapors; nor in damp or wet environments; nor in direct sunlight; nor where temperatures are consistently below -40° F (-40° C) or above 122° F (50° C).
- Ensure the Emporia Vue does not have power during any handling, including installation and disassembly.
- Do not perform any maintenance, service, or cleaning of the Vue after installation. Contact customer service for support.
- The Emporia Vue should only be used with Listed Energy-Monitoring Current Transformers.
- Basic Insulation, use CTs only on insulated conductor, secured from contacting live parts.
- To reduce risk of electric shock, always open or disconnect circuits from the power-distribution system (or service) of a building before installing or servicing current transformers.
- The Emporia Vue should be wired to power using 16AWG, 600V, UL1015, 105° C (or higher) copper-only wires
- It is recommended that the Emporia Vue be wired to the breaker closest to the device.

Safety information (continued)

⚠WARNING

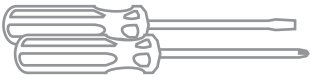
- Do not position the Emporia Vue so that it is difficult to operate disconnecting devices or breakers.
- Do not use 3rd party accessories or Current Transformers (CTs) with the Emporia Vue. The Vue and CTs are customized and integrated. Third party accessories or CTs may compromise the data accuracy and equipment safety.
- The current transformers may not be installed in equipment where they exceed 75 percent of the wiring space of any cross-sectional area within the equipment.
- Restrict installation of current transformers in an area where it would block ventilation openings.
- Restrict installation of current transformers in an area of breaker arc venting. Do not install the Emporia Vue Energy Monitor in any area where breaker arc venting exhaust gasses could be re-directed as a result of submetering equipment installation.
- The Emporia Vue is not suitable for Class 2 wiring methods and not intended for connection to Class 2 equipment. (Refer to NEC 2023, Section 725.)
- Secure current transformers and route conductors so that the conductors do not directly contact live terminals or buses.
- The Emporia Vue shall not be mounted within 50.8 mm (2 in) of any live parts including primary conductors, primary terminals, and primary lugs; but excluding insulated cables. It's acceptable for the Vue to be mounted to the grounded panel box and near the neutral/ground bus bars. The Vue employs Class I wiring allowing its wires to safely coexist with all other wires in the panel.
- If the Emporia Vue Energy Monitor is attached to the enclosure, it shall not contact the panel interior insulation such as the material that separates the GND and LIVE bus bars.
- Emporia Vue Energy Monitor mounting provisions shall not be attached to any energized part.
- Voltage sensing and power supply connections to the primary voltage shall have overcurrent protection through connection to a breaker/MCB.

Before you get started

The Emporia Vue is installed in a home's electrical panel. The main breaker will need to be set to the off position, which will shut off all of the power in the home. **However, the service mains will remain energized and dangerous.** The following may help with safe installation.

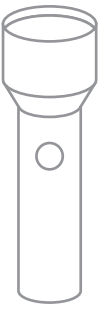
- Installation should be performed by a skilled person such as a licensed electrician or other qualified professional
- Install in accordance with the regional electrical code where it is being installed
- Ensure that the product specifications of the Vue are compatible with the system and the panel type where it is being installed.
- Identify the location of service disconnect. It may be outside of the panel.
- Ensure the work environment is clean with additional lighting available.
- Identify empty breakers or breakers that can be tapped for voltage monitoring. The number required corresponds to the system phases.
- The following items are recommended:

Insulated gloves



Phillips and flathead screwdrivers

Protective eyewear



Alternative light source

What's in the box

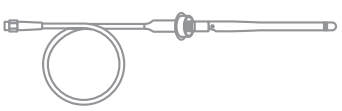
The Emporia Vue contains the following items. **If any of these items are missing or if you believe they've been damaged, contact support immediately.**

Vue energy monitor

Two or three (depending on bundle) Main 200A current transformers (CTs) with 22 AWG wire and 5mm screw terminal plugs

0, 8, or 16 (depending on bundle) Branch 50A current transformers (CTs) with 22 AWG wire and 3.8mm screw terminal plugs

Wire harness with 7.6mm screw terminal plugs and 4x16AWG wire leads



WiFi antenna assembly

Two or three (depending on bundle) wire nuts and three 14 AWG, 600V splicing wires

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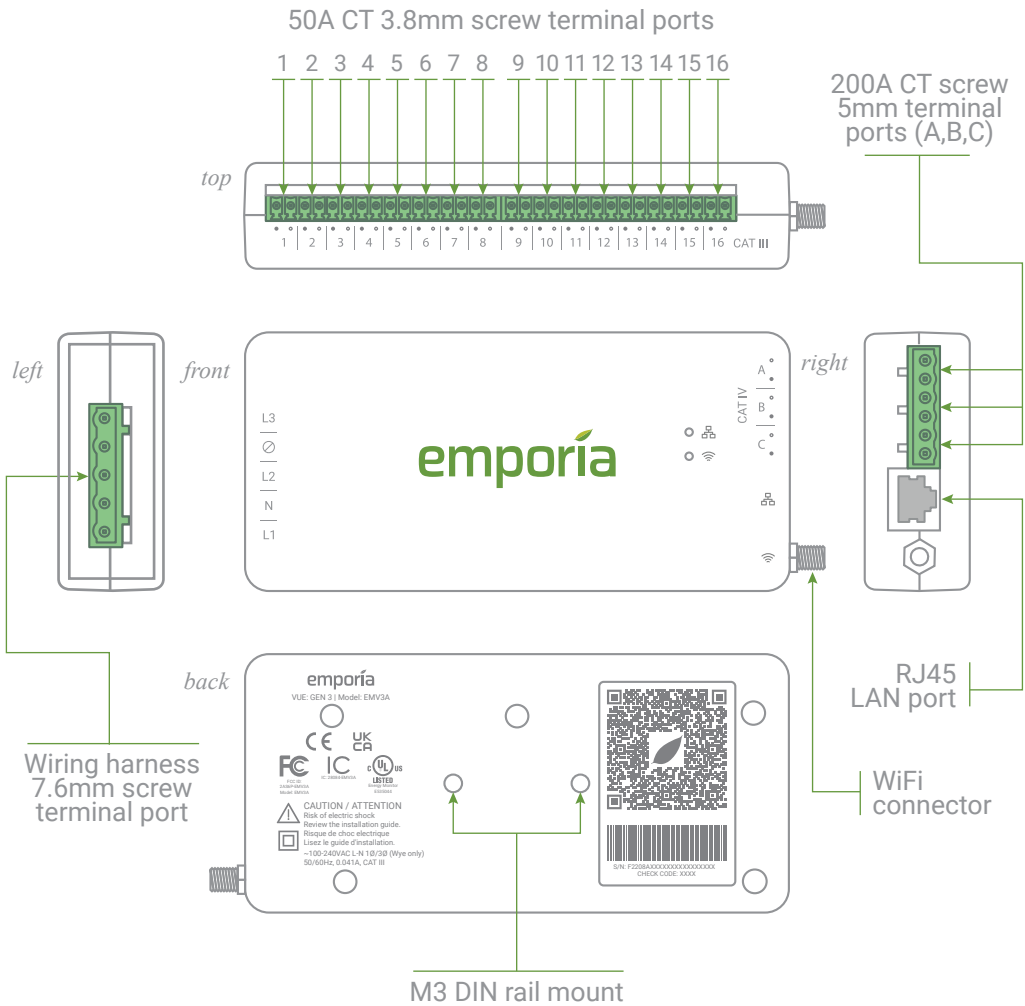
Energy monitor connections

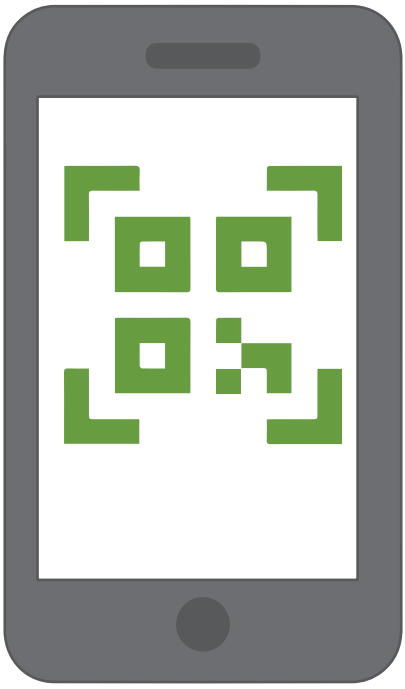
The energy monitor is the hub of the Emporia Vue. The screw terminal port for the wiring harness is located on the left-hand side of the monitor. The screw terminal ports across the top of the monitor are the inputs for the 50A Branch Current Transformers (CTs) (the bundle may have come with 8 or 16 CTs, or none at all). The A, B, and C screw terminal ports on the right side of the monitor are the inputs for the 200A Main CTs (the bundle may have shipped with two or three). The RJ45 LAN port and coaxial connector for the WiFi antenna cable are also on the right hand side of the monitor. All of the ports are clearly labeled on the energy monitor.



Step 1: Get the app

Use the camera on your phone to scan the unique QR code located either on the **back of the Vue** energy monitor or on the **Getting Started Guide** included in the box. This QR code will both download the **Emporia Energy app** onto a phone or tablet from the Apple App Store or Google Play and start the Vue setup process. Once the app is downloaded, you'll be prompted to **create an account** if you don't have one.

Also, if you plan to connect the Vue to the internet via Wi-Fi, this is a great time to use a phone to check the signal strength of the Wi-Fi network next to the electrical panel in the home. Low/no signal may require a Wi-Fi extender or an ethernet connection for the Vue to work properly.



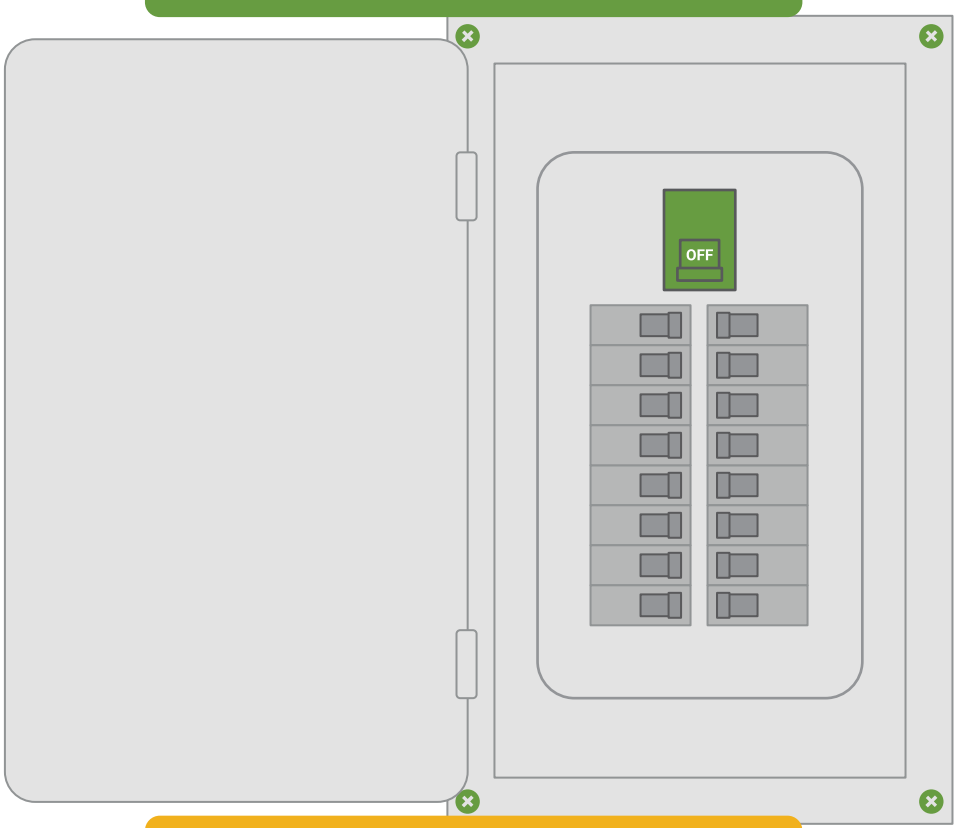
Download on the App Store

GET IT ON Google Play

Step 2: Turn off the main breaker and remove the cover

First, turn service disconnects and/or main breakers feeding the panel into the OFF position. Note that these may be located outside of the panel in which you're installing the Vue. Next, remove any screws holding the cover to the panel and remove the cover to access the circuit breakers and **the energized service mains!**

Service disconnect may be located outside of the panel



DANGER: The service mains are energized!

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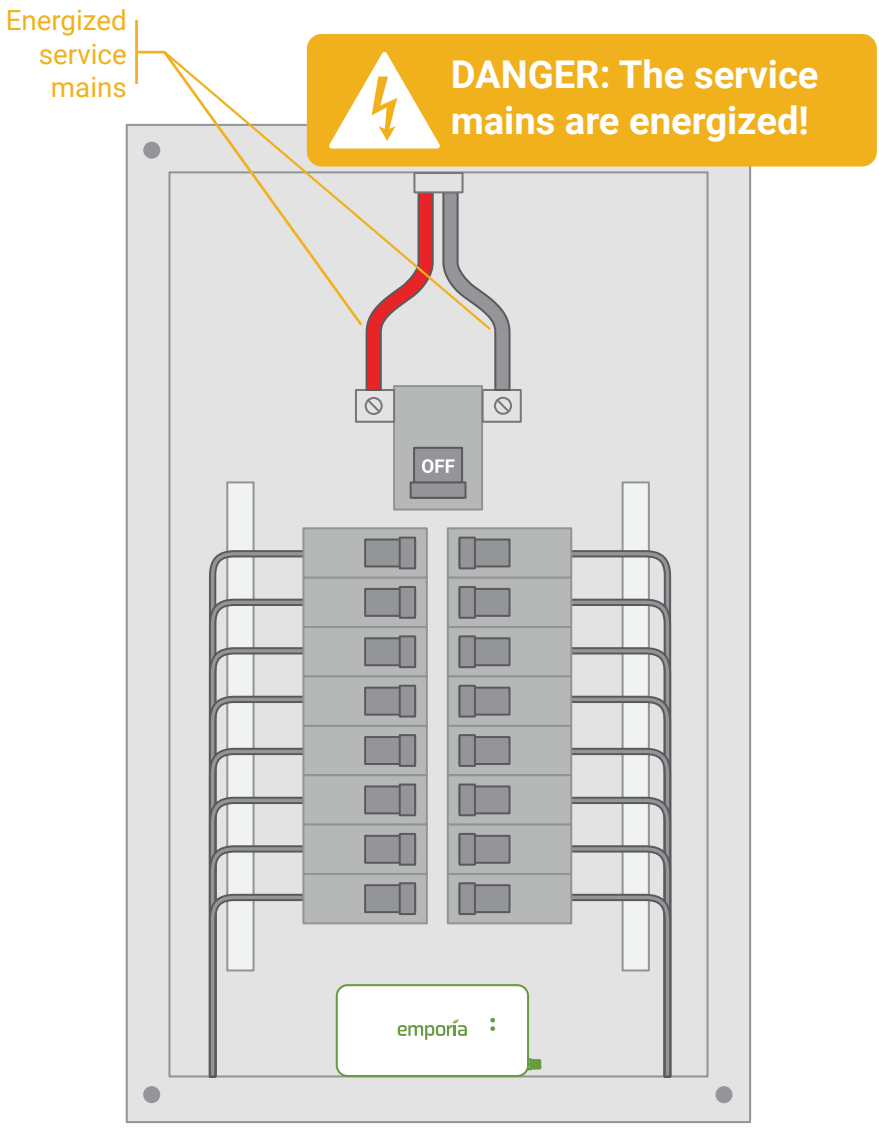
Step 3: Find a place for the monitor

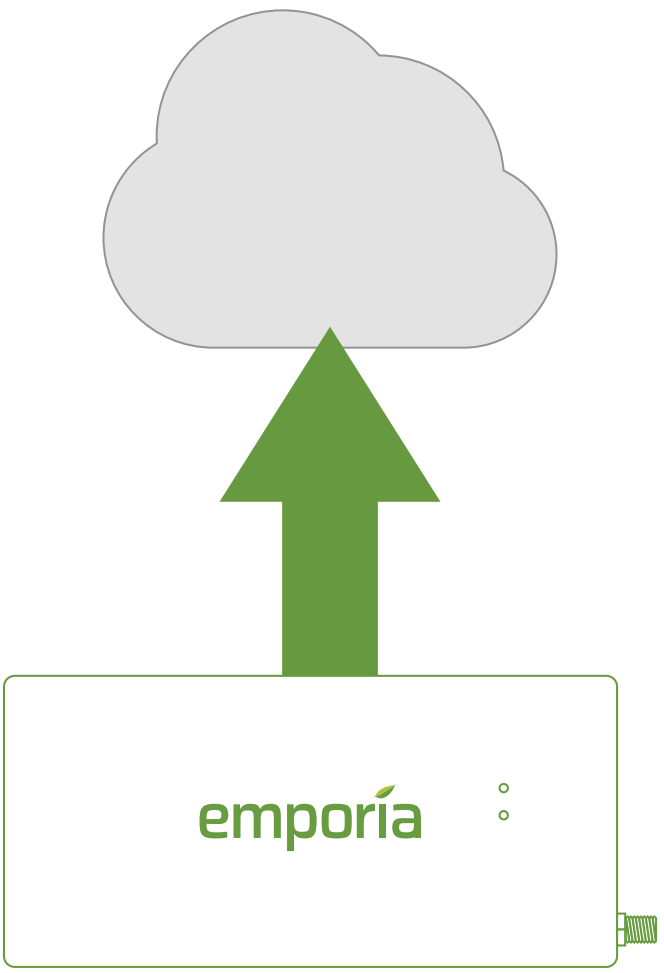
Locate a place within the electrical panel for the Vue energy monitor **ensuring it is at least 50.8mm (2 in) from any live parts** including primary conductors, primary terminals, and primary lugs; but excluding insulated cables. The breaker box may be oriented differently than below, but the monitor is small and designed to fit easily in the box. Find a place that works. If the Vue is to be mounted on a DIN rail, the monitor has two threaded screw holes to attach mounting hardware using two M3 screws and lock washers (sold separately).



Step 4: Prepare for Internet connection

The Vue is capable of connecting to the internet either via a wired LAN connection, a Wi-Fi connection, **or both**. If both are implemented, the Vue will prioritize wired LAN. If a wired LAN is unavailable, the Vue will attempt to connect over Wi-Fi. Choose the preferred method(s) and go to the corresponding step below.

- **Step 4(a): Prepare for wired LAN connection**
- **Step 4(b): Prepare for Wi-Fi connection**



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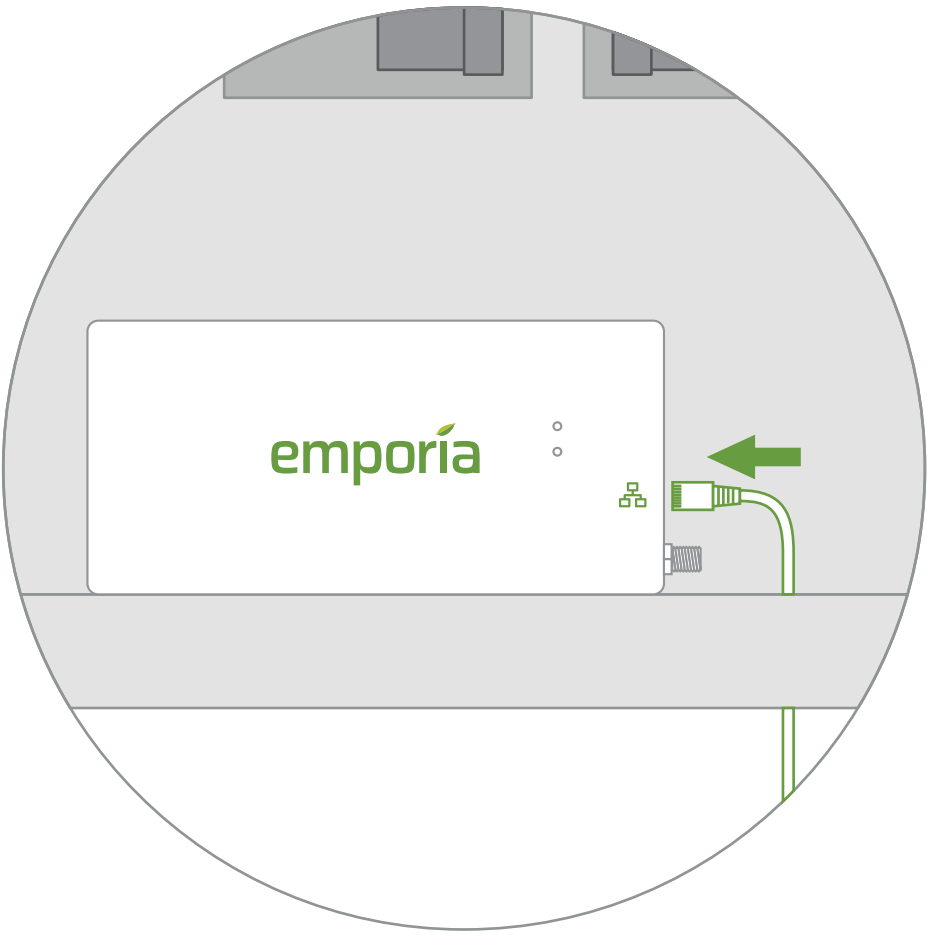
Step 4(a): Prepare for wired LAN connection

This step is to prepare for a wired internet connection. To connect to the internet wirelessly via Wi-Fi, see **Step 4(b)**. Run a Cat5e or higher ethernet cable with an RJ45 connector from a router, switch, or modem to the electrical panel. Then, use a screwdriver to remove a knockout from the electrical panel. Next, feed the cable through the hole to the Vue and plug it in the socket on the right-hand side of the energy monitor marked 品.



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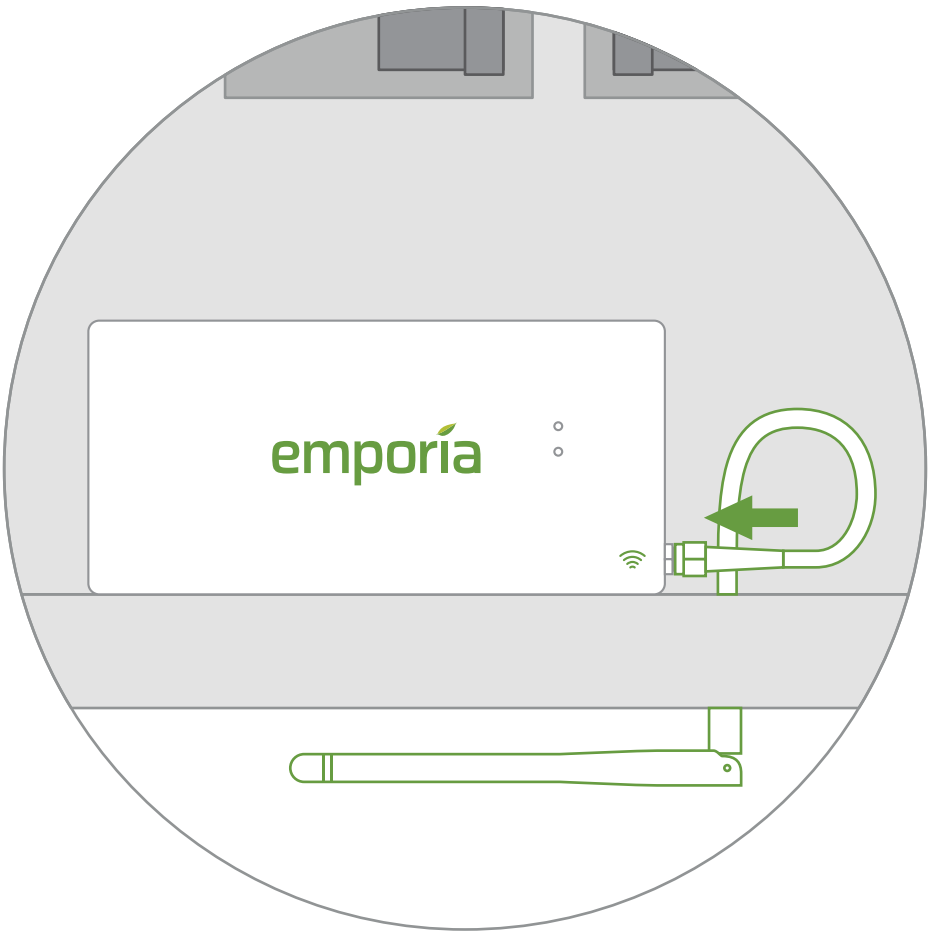
Step 4(b): Prepare for Wi-Fi connection

This step is to prepare for a wireless internet connection. To connect to the internet via wired LAN, see **Step 4(a)**. Use a screwdriver to remove a knockout from the electrical panel. Now, feed the antenna through the hole. Then, Screw the antenna assembly cable to the right-hand side of the energy monitor in the coaxial connector marked . Finally, plug the hole with the knockout plug. It's acceptable to install the antenna inside of a wall.



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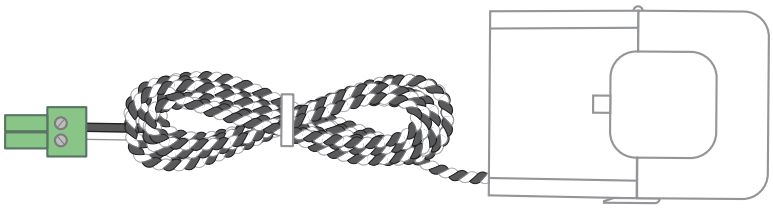
Step 5: Installing the Main current transformers

The Main CTs will attach to the incoming live mains. **They should not be used on neutral lines**. They will be installed differently depending upon whether or not the home has solar and how that solar system is connected to the electrical system. The Vue will be installed differently depending on whether the solar is a breaker-fed or a line-side tap installation. The Main CTs that connect to the mains will provide net metering out of the box — displaying electricity used minus electricity produced. These installations are covered in the subsequent pages. To monitor electricity used and electricity produced separately, Branch CTs will be used as described in **Step 8**.

- **Step 5(a): No solar Main CT**
- **Step 5(b): Breaker-fed solar Main CT**
- **Step 5(c): Line-side tap solar Main CT**



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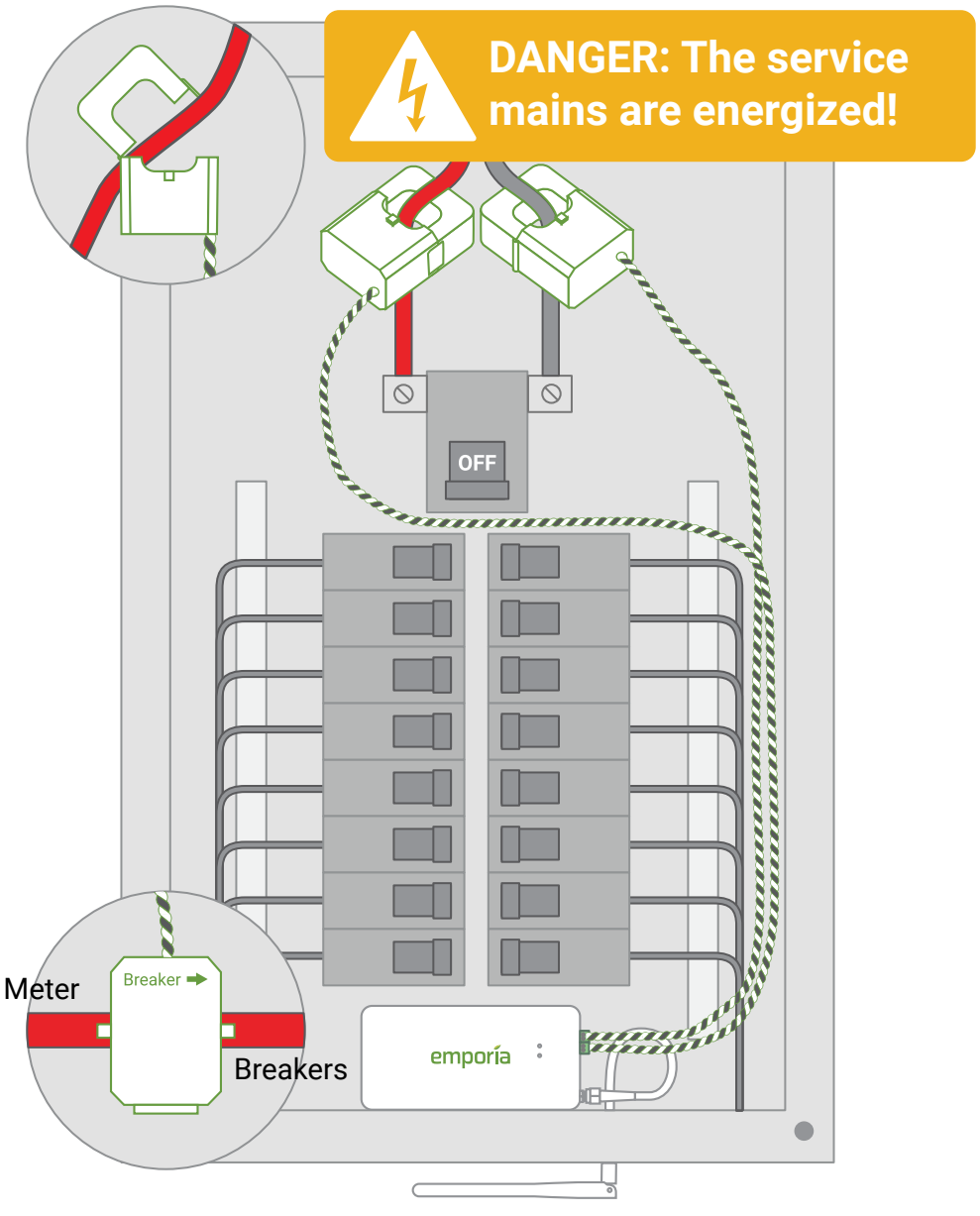
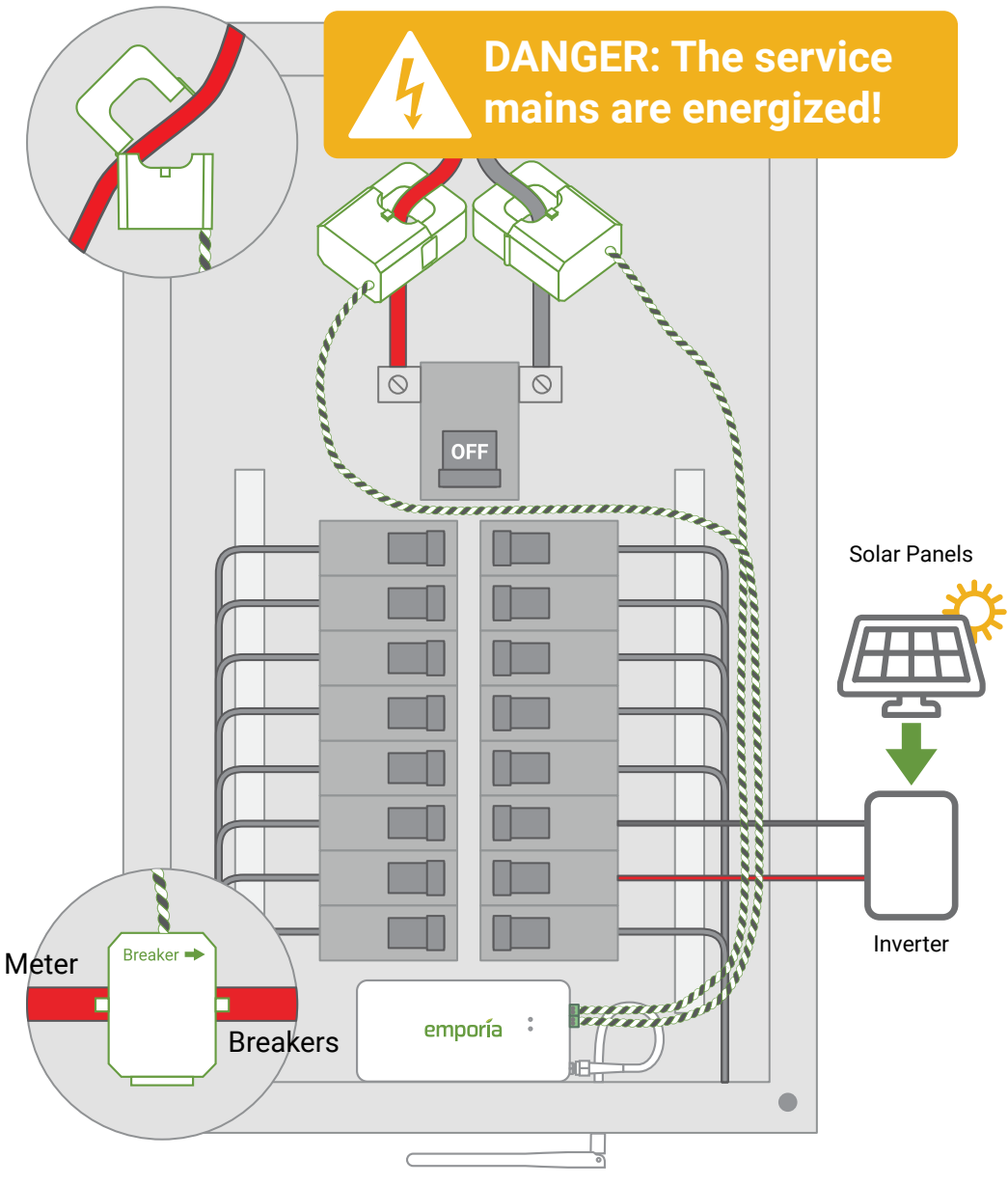
Step 5(a): No solar Main CT installation

Open the clasps on the CTs and place each clamp around one of the main service cables. Then, shut the clasps to secure the CTs. **IMPORTANT! The Breaker → imprint on the bottom of the CTs should point toward the breakers**. Finally, insert the screw terminal plugs into the ports on the right side of the monitor. **To avoid clutter**, unscrew the 22 AWG wires from the screw terminals, cut them to size, and reattach them ensuring the black and white wires match the icons on the front of the Vue.



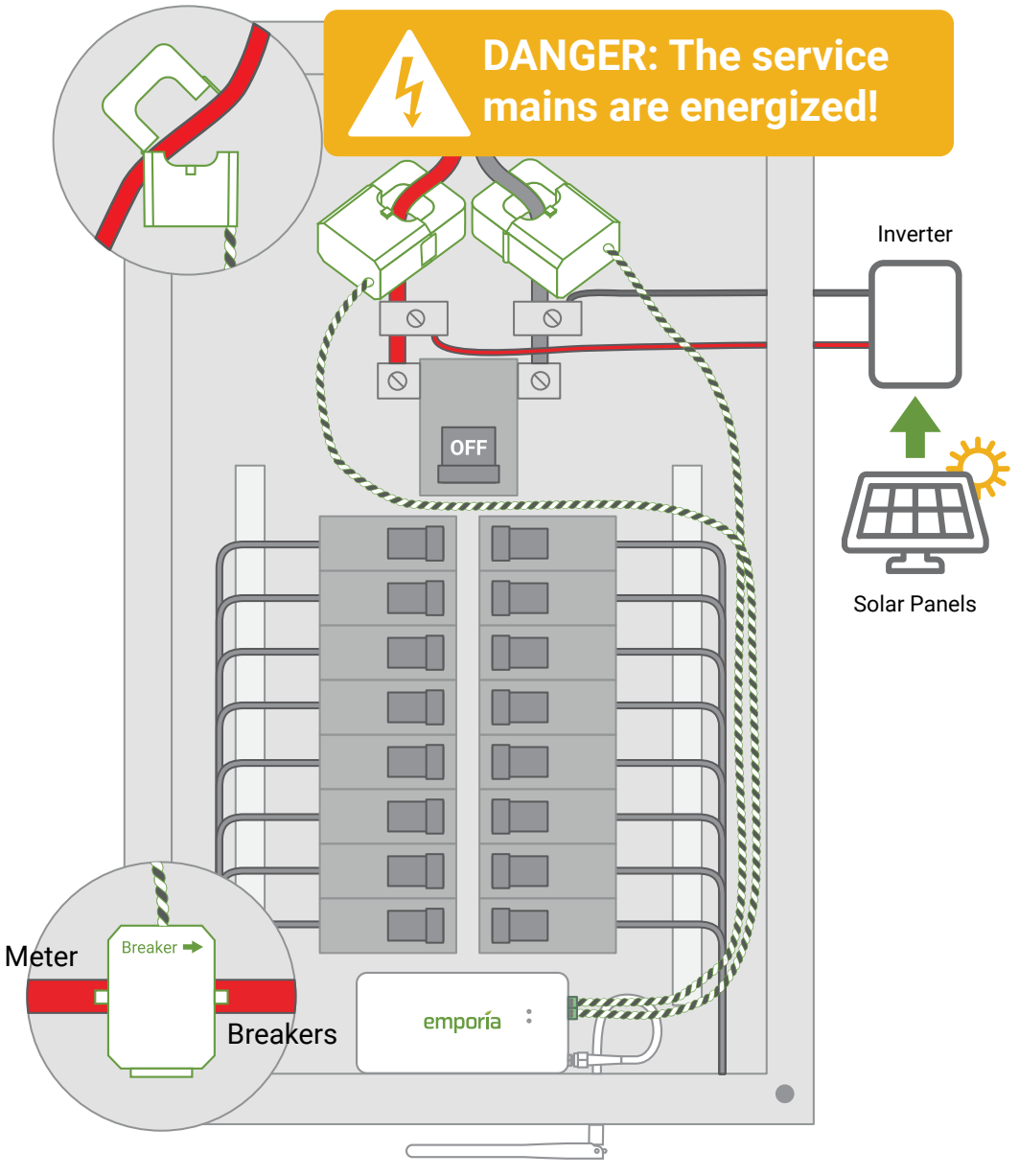
Step 5(b): Breaker-fed solar Main CT installation

Open the clasps on the CTs and place each clamp around one of the main service cables **between the meter and the main breaker**. Then, shut the clasps to secure the CTs. **IMPORTANT! The Breaker → imprint on the bottom of the CTs should point toward the breakers.** Finally, insert the screw terminal plugs into the ports on the right side of the monitor. **To avoid clutter**, unscrew the 22 AWG wires from the screw terminals, cut them to size, and reattach them ensuring the black and white wires match the icons on the front of the Vue.



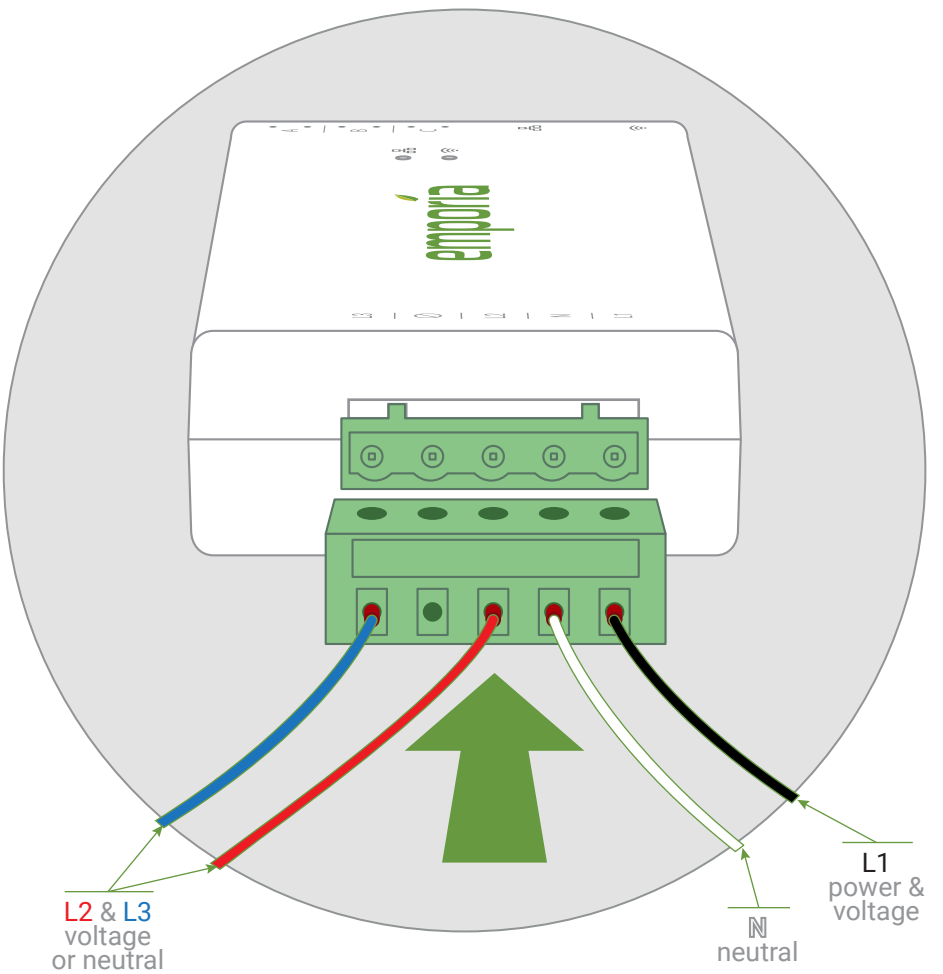
Step 5(c): Line-side tap solar Main CT installation

Open the clasps on the CTs and place each clamp around one of the main service cables **between the utility meter and incoming line-side inverter taps.** Then, shut the clasps to secure the CTs. **IMPORTANT! The Breaker → imprint on the bottom of the CTs should point toward the breakers**. Finally, insert the screw terminal plugs into the ports on the right side of the monitor. **To avoid clutter**, unscrew the 22 AWG wires from the screw terminals, cut them to size, and reattach them ensuring the black and white wires match the icons on the front of the Vue.



Step 6: Plug in the voltage sensing wire harness

Insert the 7.6mm screw terminal plug of the power supply wiring harness with four 16 AWG wire leads into the port of the left side of the energy monitor until it clicks into place securely. These wires can also be cut to length to reduce panel clutter. The wire harness allows for single-phase power and three-phase voltage sensing: **Black (L1)** provides power and voltage sensing, White (N) connects to Neutral, and **Red (L2)** and **Blue (L3)** provide voltage sensing only (if applicable).



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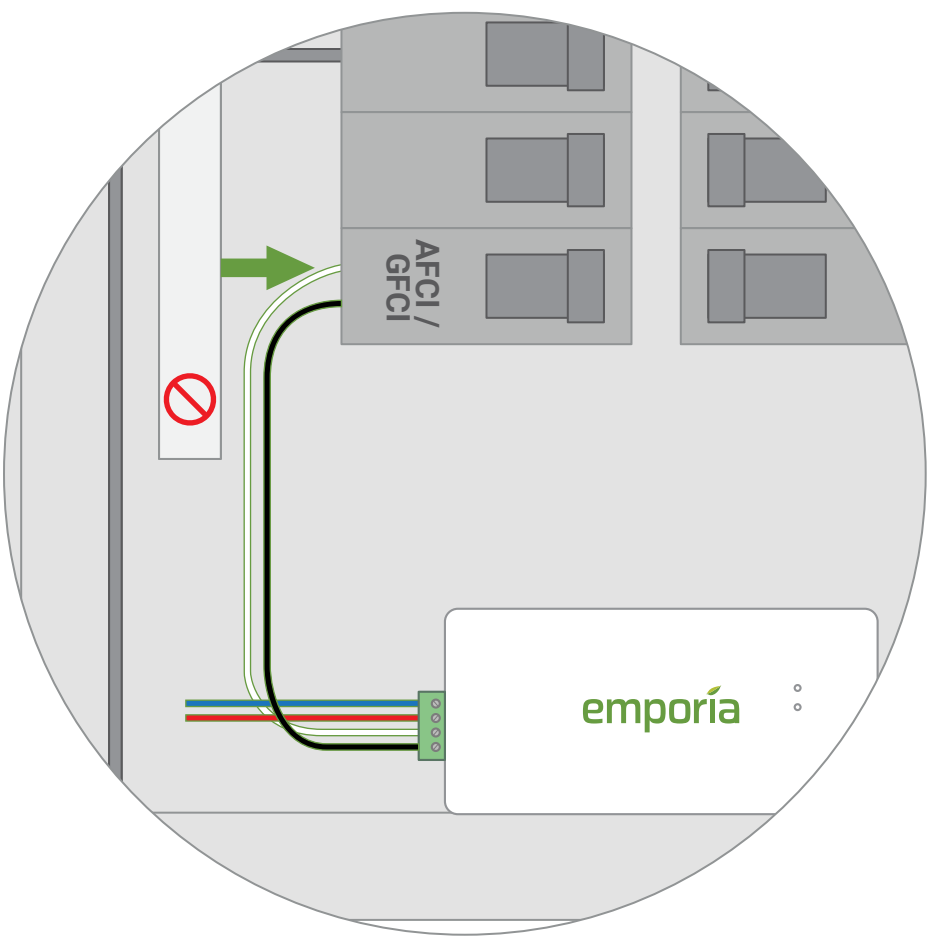
Step 7: Connect the wire harness

The wire harness is wired to one or more breakers in the electric panel.

1.) **Wiring to an empty breaker**
If wiring to an empty (unused) breaker, wire it directly to the breaker. Ampacity rating of this breaker does not matter.

2.) **Wiring to an in-use breaker**
If wiring to an in-use breaker, use the splicing wires / wire nuts included with the Vue for breakers rated up to 15A. Any amapacity rating may be used if the splicing wire gauge matches the existing wire and meets applicable electric codes.

3.) **Wiring to a AFCI / GFCI breaker**
If the wire harness is wired to an AFCI / GFCI breaker, **the black wire needs to be wired to the hot side and the white to the neutral on this breaker. The white is not wired to the neutral bus.**



Step 7 (continued): Connect the wire harness

The voltage sensing wire harness will be connected differently depending on the number of Main CTs installed in **Step 5** as well as whether or not there are an adequate number of empty breakers. Go to the step below based on the system. If you're unsure, contact Emporia Support and we'll help you through it.

Step 7(a) Common in N. American homes

- Two empty breakers
- Two Main CTs

Step 7(b) Common in N. American homes

- No empty breaker
- Two Main CTs

Step 7(c) Common in European 3-phase homes
Common in N. American Commercial systems
Uncommon in N. American homes

- Three empty breakers
- Three Main CTs

Step 7(d) Common in European 3-phase homes
Common in N. American Commercial systems
Uncommon in N. American homes

- No empty breaker
- Three Main CTs

Step 7(e) Common in European 1-phase homes
Uncommon in N. American homes

- One empty breaker
- One Main CT

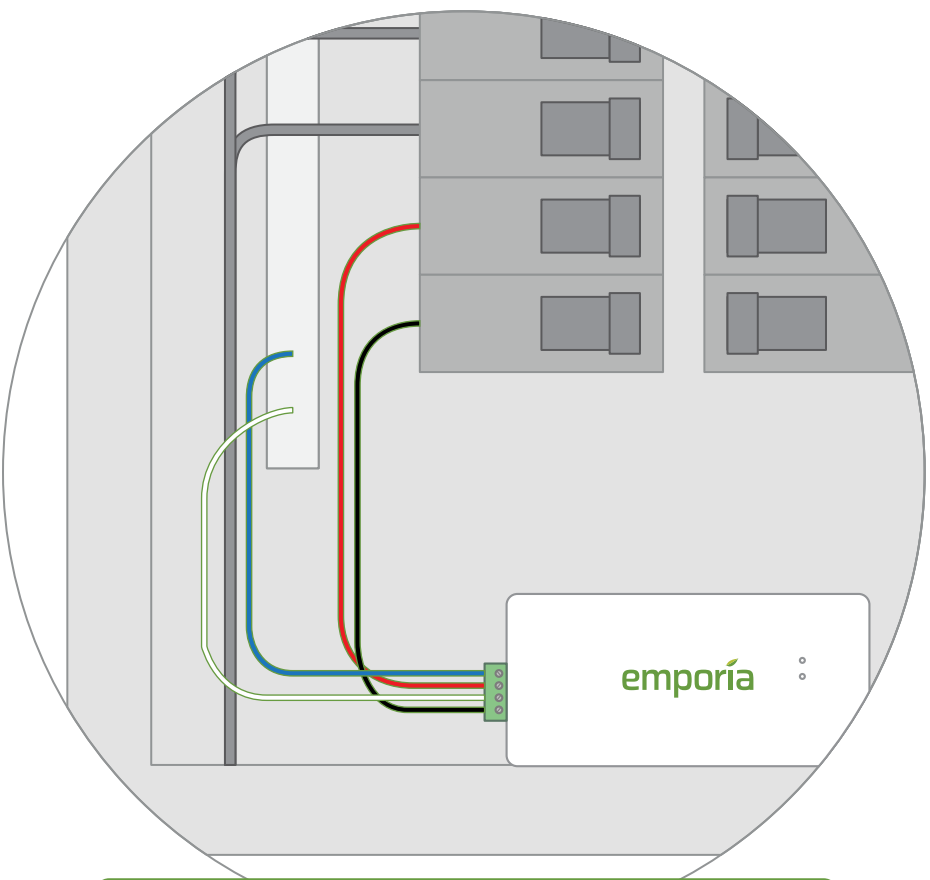
Step 7(f) Common in European 1-phase homes
Uncommon in N. American homes

- No empty breaker
- One Main CT

Step 7(a): Two empty breakers and two Main CTs

Common in N. American homes

Secure the White (N) and **Blue (L3)** wires from the wire harness to the neutral bus bar. Turn off two vertically adjacent (stacked) single pole breakers and secure the **Black (L1)** and **Red (L2)** wires from the harness to each of the hot leads from each breaker.



Any empty breaker size can be used in this scenario (not limited to 15A)

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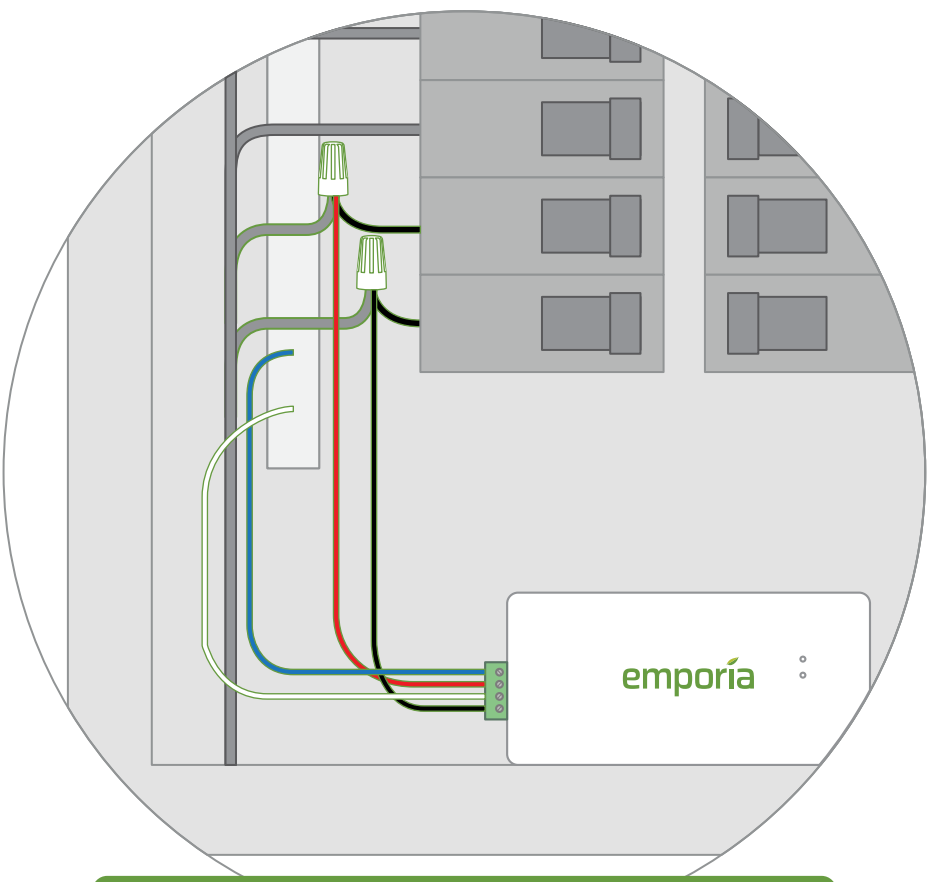
Step 7(b): No empty breaker and two Main CTs

Common in N. American homes

Secure the White (N) and **Blue (L3)** wires from the wire harness to the neutral bus bar. Turn off two vertically adjacent (stacked) 15A single pole breakers and remove their wires. Connect one of the breaker wires to the **Black (L1)** harness wire and a splicing wire with a wire nut. Next, connect the second breaker wire to the **Red (L2)** harness wire and a splicing wire with a wire nut. Then secure each of the extra wires to the two breaker poles.

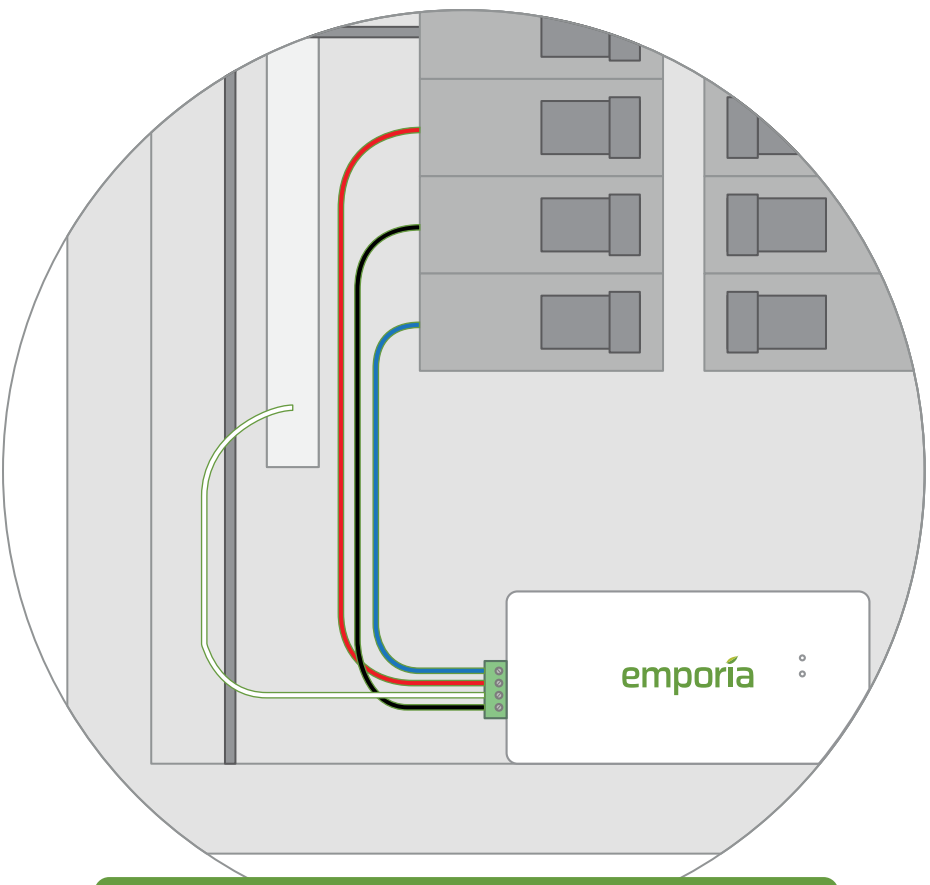


A larger amp breaker may be used if the gauge of the splicing wire matches the existing gauge wire from the breaker meeting the national and regional codes

Step 7(c): Three empty breakers and three Main CTs

Common in European 3-phase homes
Common in N. American commercial systems
Uncommon in N. American homes

Secure the White (N) wire from the wire harness to the neutral bus bar. Turn off three vertically adjacent (stacked) single pole breakers and secure the **Black (L1)**, **Red (L2)**, and **Blue (L3)** wires from the harness to each of the hot leads from each breaker.



Any empty breaker size can be used in this scenario (not limited to 15A)

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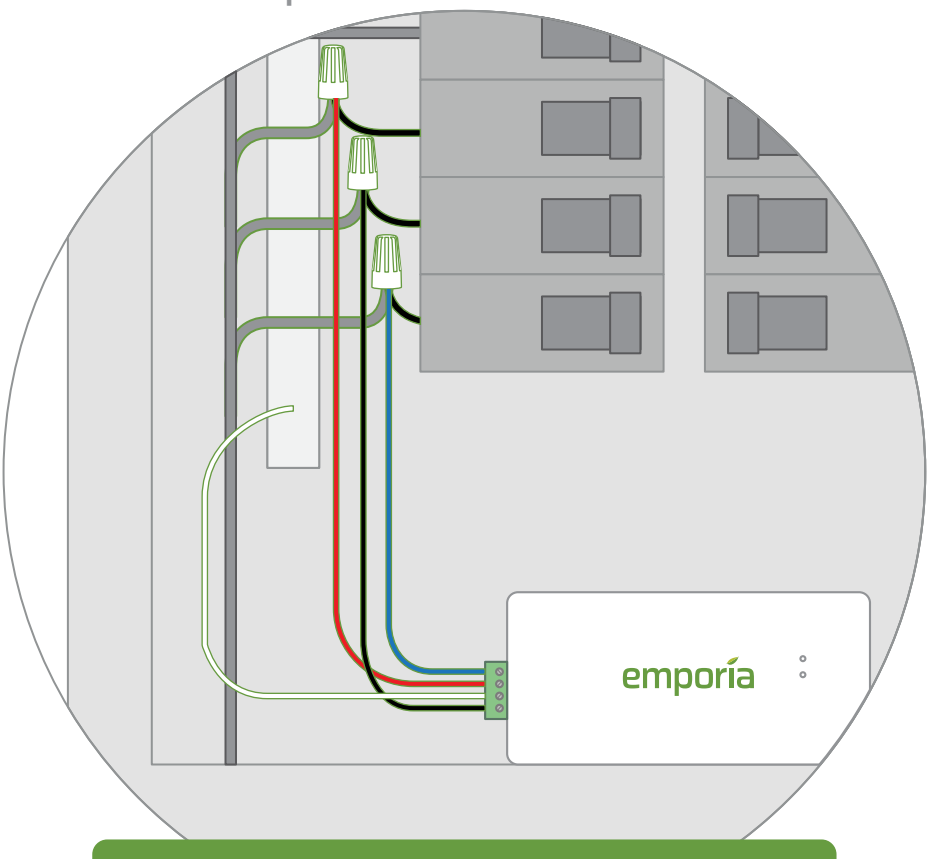
Step 7(d): No empty breaker and three Main CTs

Common in European 3-phase homes
Common in N. American commercial systems
Uncommon in N. American homes

Secure the White (N) wire from the wire harness to the neutral bus bar. Turn off three vertically adjacent (stacked) 15A single pole breakers and remove their wires. Connect one of the breaker wires to the **Black (L1)** harness wire and a splicing wire with a wire nut. Next, connect the second breaker wire to the **Red (L2)** harness wire and a splicing wire with a wire nut. Next, connect the third breaker wire to the **Blue (L3)** harness wire and a splicing wire with a wire nut. Then secure each of the splicing wires to the three breaker poles.

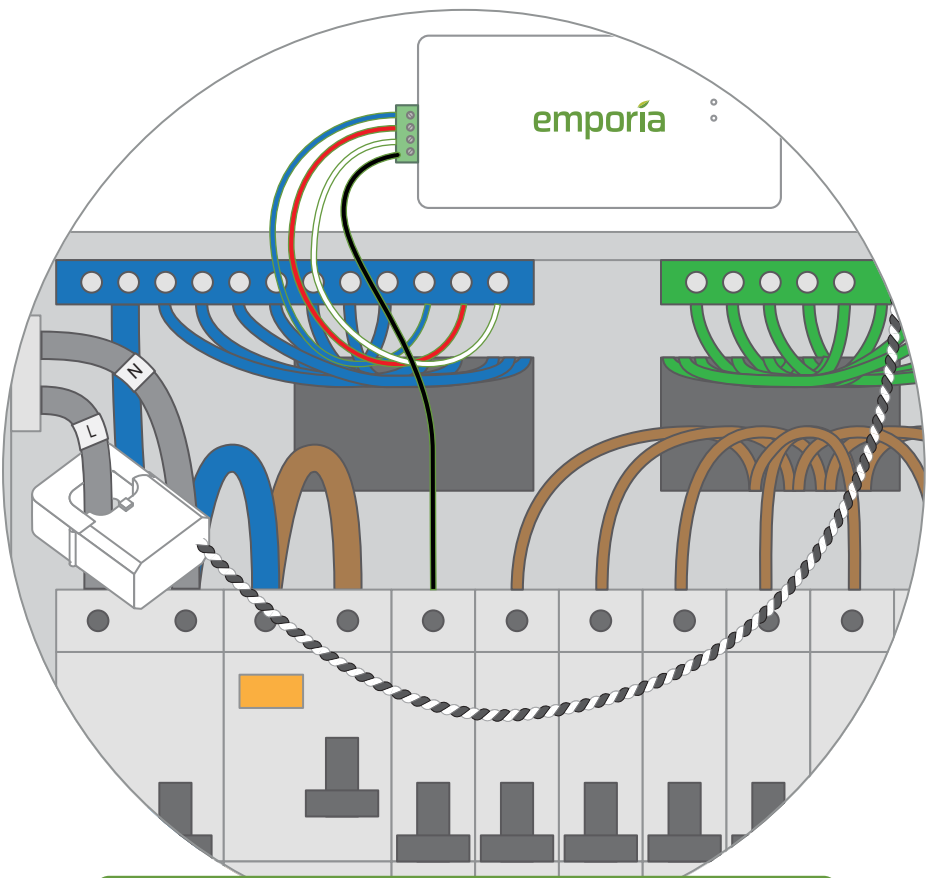


A larger amp breaker may be used if the gauge of the splicing wire matches the existing gauge wire from the breaker meeting the national and regional codes

Step 7(e): One empty breaker and one Main CT

Common in European 1-phase homes
Uncommon in N. American homes

Secure the White (N), **Red (L2)**, and **Blue (L3)** wires from the wiring harness to the neutral block (you can use a wire nut and splicing wire if needed). Turn off an empty MCB and secure the **Black (L1)** wire from the harness to the hot lead from the MCB.



Any empty MCB size can be used in this scenario (not limited to 15A)

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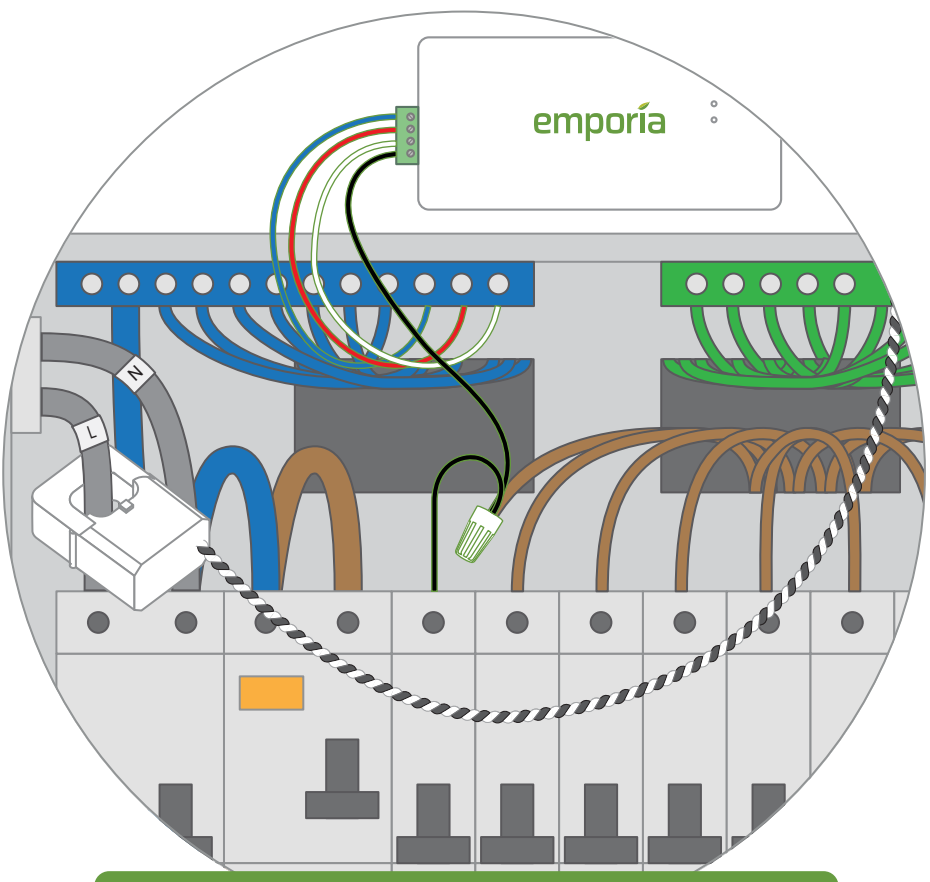
Step 7(f): No empty breaker and one Main CT

Common in European 1-phase homes
Uncommon in N. American homes

Secure the White (N), **Red (L2)**, and **Blue (L3)** wires from the wire harness to the neutral block. Turn off a 15A MCB and disconnect its wire. Connect that wire to the **Black (L1)** wire from the harness and a splicing wire with the wire nut. Then secure the splicing Wire to the MCB.



A larger amp breaker may be used if the gauge of the splicing wire matches the existing gauge wire from the breaker meeting the national and regional codes

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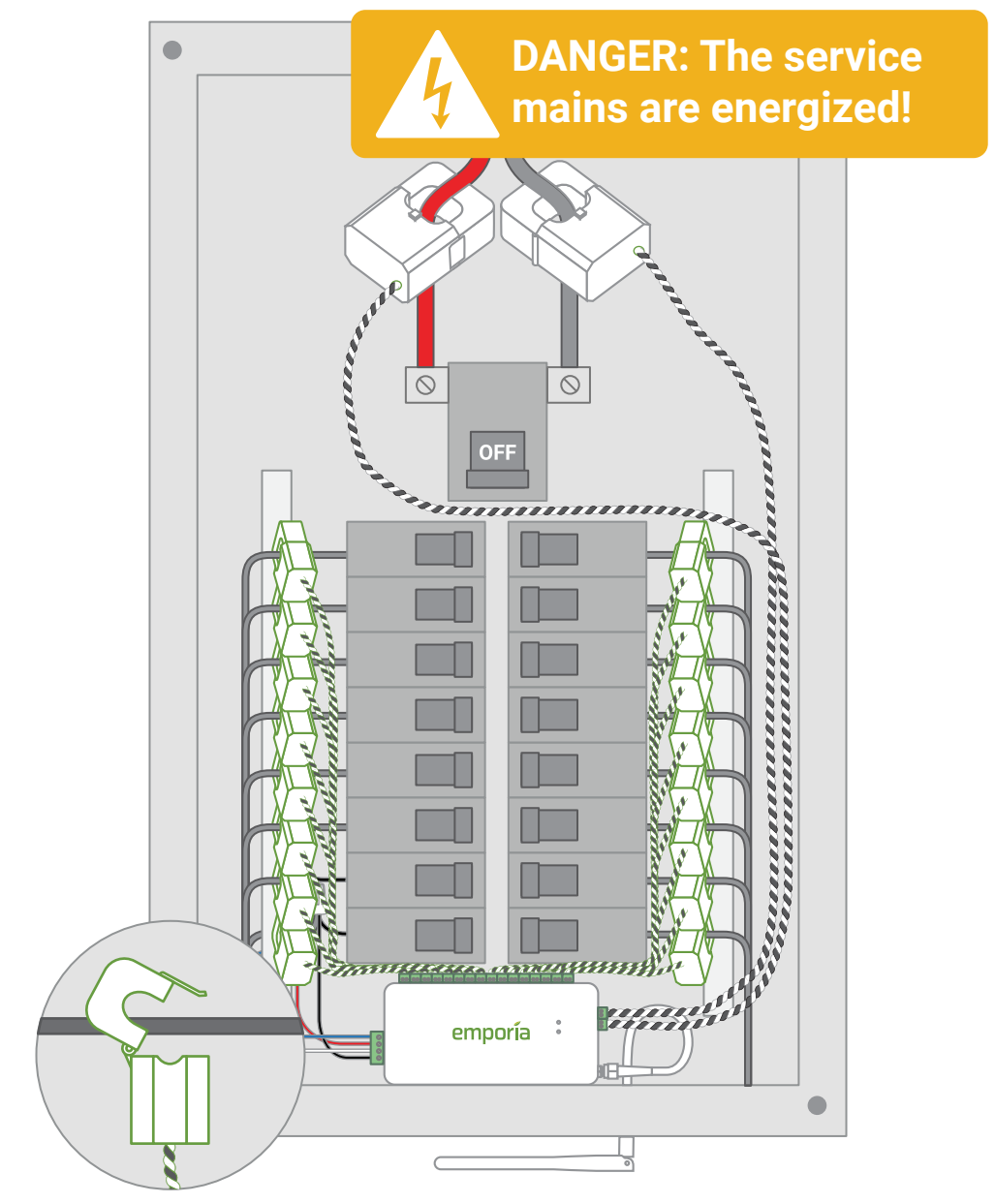
Step 8: Plug in and connect the Branch current transformers

If the Vue has Branch CTs, open the clasps on the CTs and place each clamp around the non-neutral leg from the breaker that is to be monitored. Then shut the clasps to secure the CTs. Then, insert the screw terminal plugs into the ports on the top of the energy monitor. Note the port numbers. **To avoid clutter,** unscrew the 22 AWG wires from the screw terminals, cut them to size, and reattach them ensuring the black and white wires match the icons on the top of the Vue.



Step 8 (continued): A note about multi-pole breakers

If 2- or 3-pole breakers are to be monitored, we recommended that one CT be used for on each pole; however, to conserve the number of CTs, a single CT can be used. To use a single CT, clasp the clamp around either one of the non-neutral leads coming off the breaker (it doesn't matter which). When only one CT is used, input a circuit multiplier in the app to double or triple the reading by entering a "2" or "1.7". **Using a single CT to monitor a multi-pole breaker does not accurately monitor unbalanced loads.**

Most accurate - Attach one branch sensor on each leg of the breaker

Less accurate - Attach one branch sensor on a single leg and use an app multiplier.

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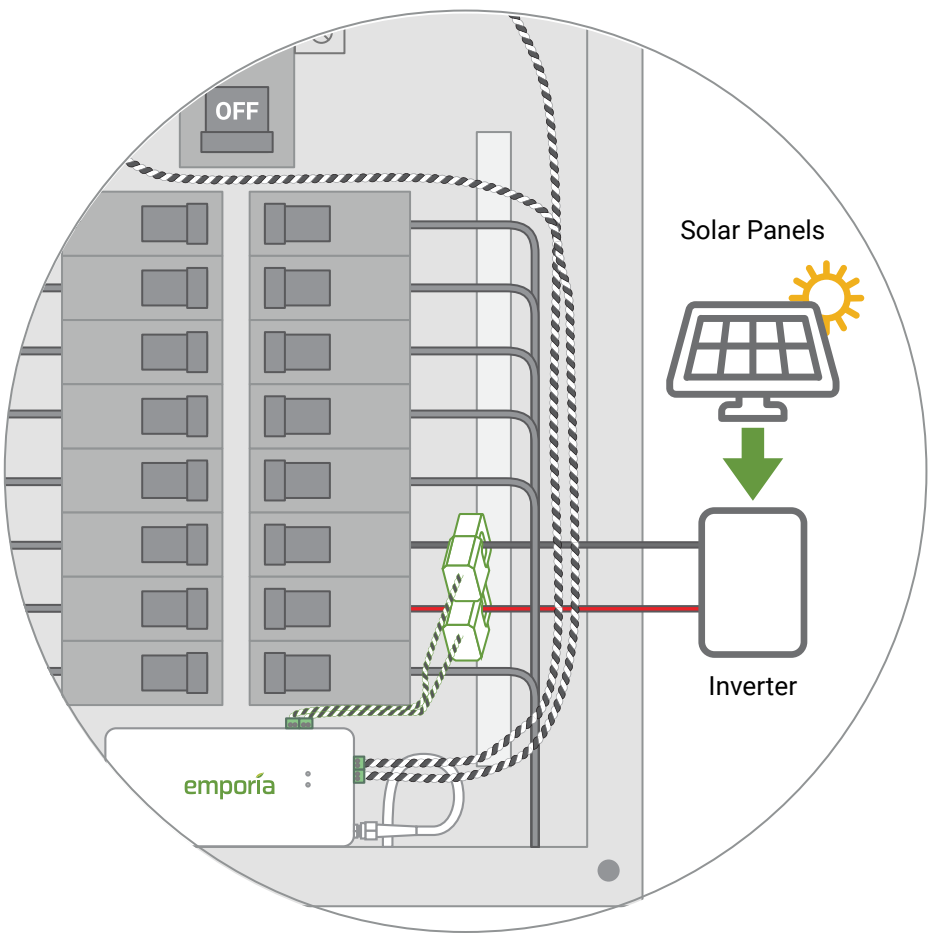
Step 8 (continued): A note about solar monitoring

For the Vue to be able to calculate how much energy from the system is going to and from the grid, Branch CTs will need to be connected to the incoming leads from the inverter regardless of whether the solar is a **breaker-fed** or a **line-side tap** installation. **Specify the circuits monitored by these CTs as 'Solar/Generation' in the app**. If only one CT is used, input a circuit multiplier in the app to double or triple the reading by entering a "2" or "1.7".



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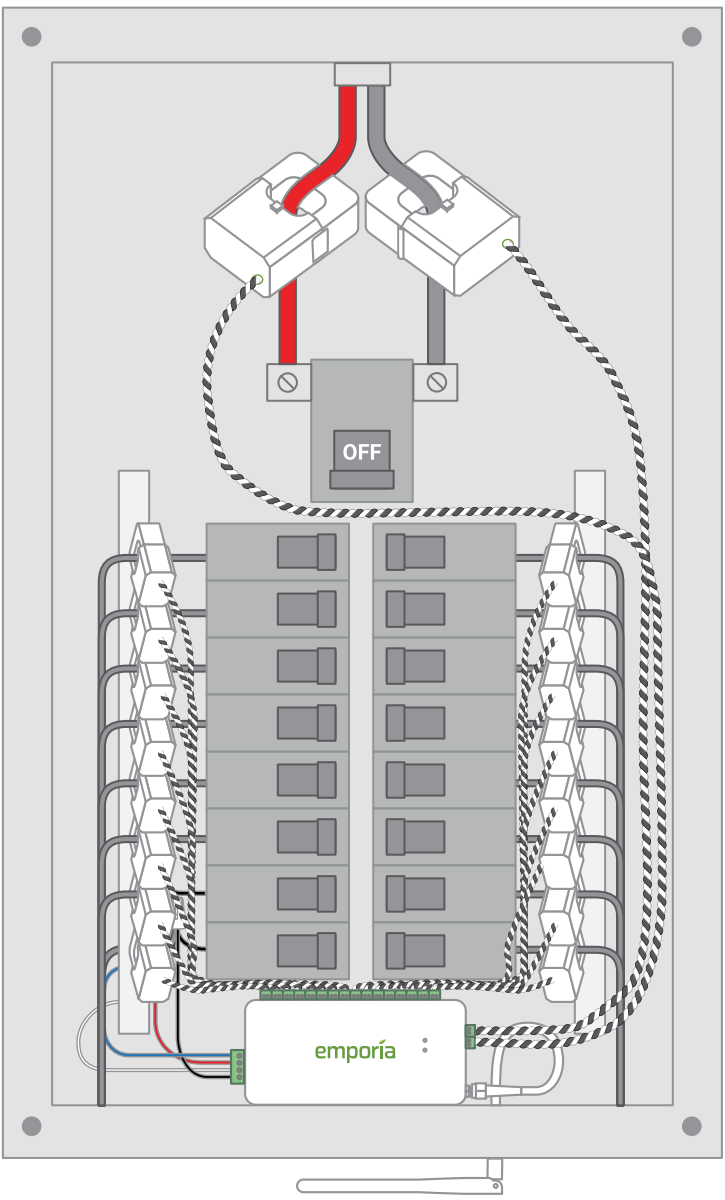
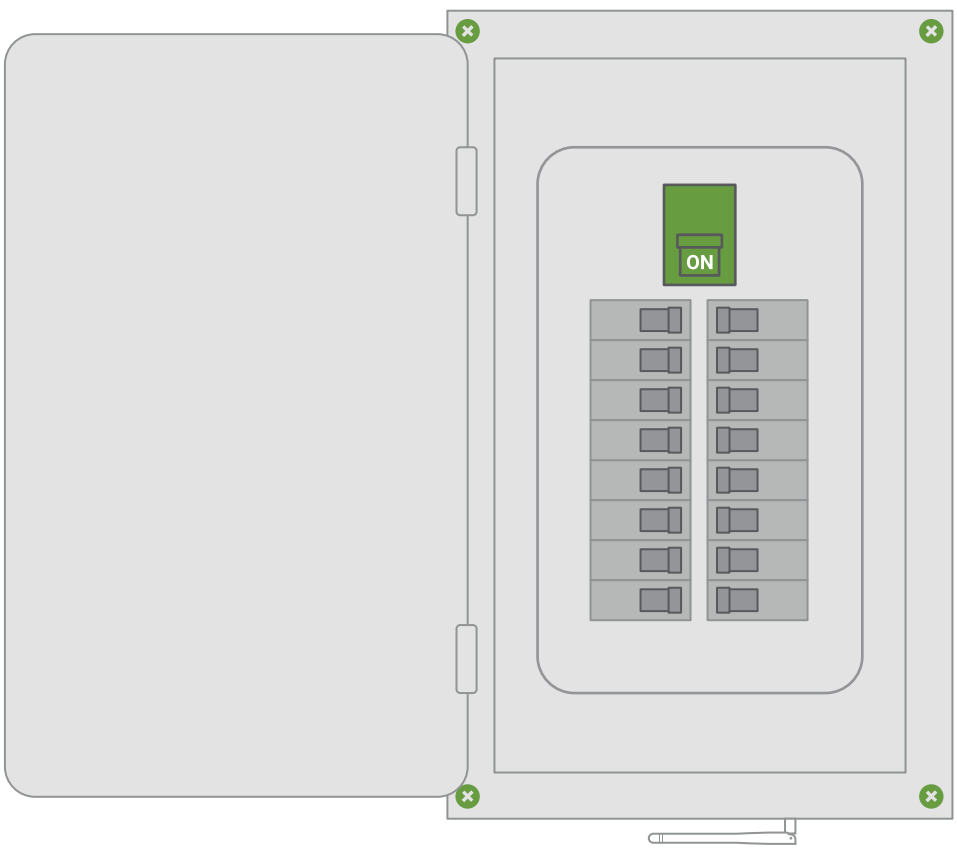
Step 9: Take a photo of your system

Before replacing your panel cover, take photos of the installation in case you need to contact support.



Step 10: Replace the cover and turn on all breakers

Secure the cover to the box with any screws you removed in Step 2. Next, return any breakers to the on position that you moved to the off position during installation to restore power to the circuits in the home. Then, close the panel. Once the panel cover is replaced, the antenna connector and screw terminal ports on the Vue will not be accessible.



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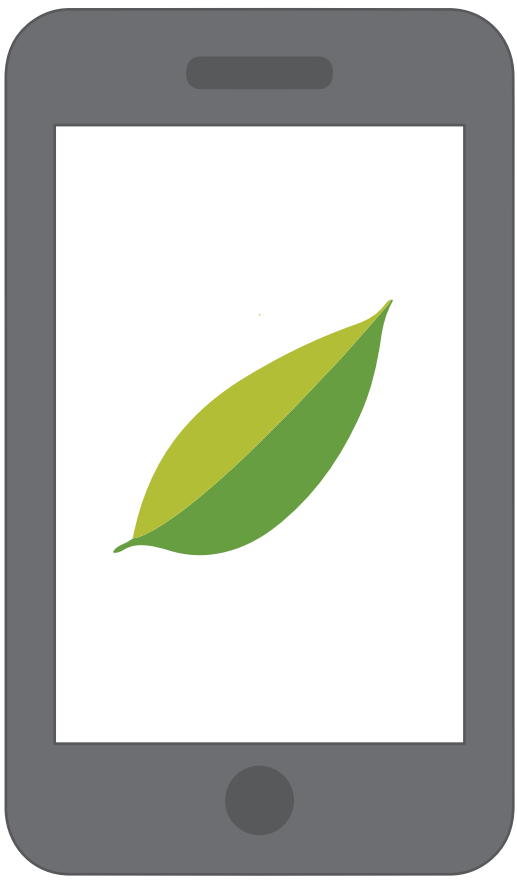
Step 11: Complete setup

Return to the Emporia app to continue the setup process that you began in Step 1 by **scanning the QR code on the Vue or Getting Started Guide** to connect the Vue to the internet via Wi-Fi or wired LAN connection.



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Troubleshooting Tips

Here are some of our most frequent troubleshooting tips. For more help, check out the Emporia Help Center online at **help.emporiaenergy.com**.

The Emporia app is not finding the Vue after I've installed it.

- Ensure the Vue has power:
  - Check for a flashing Wi-Fi light.
  - Listen for a startup tone.
  - Check the wire harness is secure and wired properly.
  - Check that the main breaker is turned on.
  - Check that the breaker powering the Vue is turned on.
- Ensure your phone can connect to the Vue.
  - Check your phone's Bluetooth is on.
  - If you're using an Android, turn on Location Services for your phone to properly scan for Bluetooth devices.
  - If you're using an iPhone, make sure Bluetooth is allowed in the ***Settings > Emporia Energy app > Bluetooth allowed***
- Ensure the Vue's Wi-Fi antenna has been installed properly.
  - Check the antenna is properly screwed into the energy monitor
  - Ensure the antenna is outside of the electric panel. It's ok if it is inside a wall, just ensure it's not inside the metal box.
- Ensure the Vue's wired LAN connection is installed properly
  - Check that the ethernet cable is securely connected to the Vue's LAN port
  - Check that the ethernet cable is securely connected to a router, switch, or modem
- Ensure the network does not have a firewall preventing new devices from accessing the internet

Troubleshooting Tips (continued)

- Try power cycling the breaker to which the Vue is connected.
- Try restarting the Emporia App.
- Try rebooting your phone.

The Emporia Energy app isn't getting real-time data from the Vue.

- Ensure all current transformers are securely fastened around their respective cables in the electric panel.
- Check the screw terminal plugs are securely plugged into the ports of the energy monitor.
- Check that the CT wires are securely connected to the screw terminals and that the screws are tight.

The Emporia app isn't showing solar net metering or grid measurements from the Vue.

- Ensure the Main CTs are clamped on the mains between the meter and incoming leads from the solar inverter.
- Ensure all CTs are oriented as per the instructions. CTs are directional.
- Check that the appropriate wiring harness wires are attached to adjacent breakers on different phases
- When configuring the Vue with the App, make sure that you temporarily turn the solar off so it is not supplying power to the system. Try running the configuration at night.
- When configuring the Vue with the App, make sure that there is a discernible load on the system. Try turning on an oven, A/C, or dryer.

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Vue LED lights

The Vue has two LED lights on the front of the energy monitor, that can help trouble-shoot the status of the internet connection and whether or not the monitor has power.

Wi-Fi (and indication of power)	
1 blink every 3 seconds	Not connected to router.
2 blinks every 3 seconds	Connected to router. Attempting Internet connection.
Solid green	Connected to Internet.
Wired LAN	
Off	Not connected to router.
2 blinks every 3 seconds	Connected to router. Attempting Internet connection.
Solid Blue	Connected to Internet.

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Technical Details

Energy Monitor (EMV3A)

- **Supported system configurations:**
  - Single phase, 2-wire systems (Up to 240V)
  - Single-split phase, 3-wire systems (Up to 240V/480V LN/LL)
  - 3-phase, 4-wire Wye systems with earthed (TN or TT) neutral (no-Delta) (Up to 240V/415V LN/LL)
- **Fuse:** 250VAC/4A (Slow Blow, TH)
- **Maximum voltage sense range:** 264VAC L-N per channel
- **Power usage:** < 3 Watts
- **Wi-Fi:** 2.4 GHz IEEE 802.11b/g/n
- **Ethernet:** 10/100Base-T, IEEE 802.3
- **Operating conditions:** -40° to 122° F (-40° to 50° C) | 0 to 80% RH Up to 3,000 meters above sea level | Indoor | Dry location Pollution Degree 2

Terminals:

- **Ethernet:** Cat5e, RJ45, 600V insulation required
- **WiFi:** SMA coaxial cable, 50Ω impedance, 600V insulation required
- **Voltage Terminals:**
  - ~100-240VAC line-to-neutral, 50/60Hz, 41mA, Overvoltage / Measurement CAT III
  - Field terminal torque value: 5Lb-In/0.56Nm
  - 16AWG, UL1015, 600V, 105C copper-only wiring
- **Main Current Transformer Terminals:**
  - 3.3V, 1mA, Measurement CAT IV
  - Field terminal torque value: 5Lb-In/0.56Nm
  - 22AWG, UL1015, 600V, 105C copper-only wiring
- **Branch Current Transformer Terminals:**
  - 3.3V, 1mA, Measurement CAT III
  - Field terminal torque value: 3Lb-In/0.2Nm
  - 22AWG, UL1015, 600V, 105C copper-only wiring

Main Current Transformers (EMV3CT2-A)

- **Max primary current:** 200A
- **Max voltage:** 250V (Primary) / 333mV (Secondary)
- **Burden resistor:** 5ohm, 1%, 1/4W
- **Cable length:** 1m
- **Inside diameter:** 22 mm
- **Accuracy:** ±2% (above 4° F / -20° C)
- **Operating conditions:** -40° to 122° F (-40° to 50° C) | 0 to 80% RH Up to 3,000 meters above sea level | Indoor | Dry location Pollution Degree 2

Branch Current Transformers (EMV3CT5-A)

- **Max primary current:** 50A
- **Max voltage:** 250V (Primary) / 333mV (Secondary)
- **Burden resistor:** 20ohm, 1%, 1/4W
- **Cable length:** 1m
- **Inside diameter:** 10 mm
- **Accuracy:** ±2% (above 4° F / -20° C)
- **Operating conditions:** -40° to 122° F (-40° to 50° C) | 0 to 80% RH Up to 3,000 meters above sea level | Indoor | Dry location Pollution Degree 2

Information de sécurité

Ceci est le symbole d'alerte de sécurité. Il est utilisé pour vous avertisser des risques potentiels de blessures corporelles. Respectez tous les messages de sécurité qui accompagnent ce symbole pour éviter d'éventuelles blessures ou la mort.

⚠ AVERTISSEMENT

AVERTISSEMENT indique une situation dangereuse qui, si elle n'est pas évitée, peut entraîner la mort ou des blessures graves.

⚠ AVERTISSEMENT

L'Emporia Vue nécessite l'installation de transformateurs à l'intérieur du panneau électrique de votre maison et une tension dangereuse pouvant entraîner des blessures ou la mort. Emporia vous prions de bien vouloir que l'installation soit effectuée par une personne qualifiée, telle qu'un électricien agréé ou un autre professionnel qualifié, conformément au code électrique régional du lieu d'installation.

Une installation ou une utilisation incorrecte de l'équipement peut être dangereuse, voire mortelle. Emporia ne pourra en aucun cas être tenu responsable envers vous ou un tiers pour tout dommage, direct ou indirect, pour une blessure personnelle résultant de votre non-respect des informations et instructions de sécurité contenues dans ce guide d'installation.

Information de sécurité

⚠ AVERTISSEMENT

- Coupez l'alimentation du panneau électrique avant l'inspection. Portez des lunettes et des gants de protection avant de tenter d'inspecter le système Vue. Assurez-vous qu'aucun câblage pour la mesure de tension, la mesure de courant, l'alimentation ou les données n'est effiloché ou n'a de conducteurs exposés. Assurez-vous qu'il n'y a pas de fissures, de cassures ou d'autres défauts dans le boîtier du Vue ou des CT.

- Si vous pensez que l'un des composants de l'Emporia Vue peut avoir été endommagé, n'essayez pas de l'utiliser. Contactez immédiatement l'assistance à support@emporiaenergy.com.

- N'utilisez pas l'Emporia Vue d'une manière autre que celle spécifiée dans ce guide d'installation, sinon la protection fournie par l'équipement pourrait être altérée.

- N'essayez pas d'ouvrir, de démonter ou de réparer l'un des composants de l'Emporia Vue.

- N'installez pas l'Emporia Vue dans des environnements contenant des gaz ou des vapeurs explosifs ; ni dans des environnements humides ou mouillés ; ni en plein soleil ; ni lorsque les températures sont constamment inférieures à -40 °F (-40 °C) ou supérieures à 122 °F (50 °C).

- Assurez-vous que l'Emporia Vue n'est pas sous tension pendant toute manipulation, y compris l'installation et le démontage.

- N'effectuez aucun entretien, service ou nettoyage du Vue après l'installation. Contactez le service client pour obtenir de l'aide.

- L'Emporia Vue ne doit être utilisé qu'avec des transformateurs de courant de surveillance de l'énergie répertoriés. Isolation de base, utilisez les TC uniquement sur un conducteur isolé, à l'abri des contacts avec des pièces sous tension.

- Pour réduire le risque de choc électrique, toujours ouvrir ou déconnecter les circuits du système de distribution d'alimentation (ou de service) d'un bâtiment avant l'installation ou l'entretien transformateurs de courant.

- L'Emporia Vue doit être câblé à l'aide de fils de cuivre 16AWG, 600V, UL1015, 105° C (ou plus)

- Il est recommandé de câbler l'Emporia Vue au disjoncteur le plus proche de l'appareil.

Information de sécurité

⚠ AVERTISSEMENT

- Ne placez pas l'Emporia Vue de manière à ce qu'il soit difficile d'actionner des dispositifs de déconnexion ou des disjoncteurs.
- N'utilisez pas d'accessoires tiers ou Current Transformateurs (TC) avec l'Emporia Vue. Le Vue et les CT sont personnalisés et intégrés. Les accessoires tiers ou les TC peuvent compromettre l'exactitude des données et la sécurité de l'équipement.
- Les transformateurs de courant ne peuvent pas être installés dans des équipements où ils dépassent 75 % de l'espace de câblage de toute section transversale de l'équipement.
- Restreindre l'installation des transformateurs de courant dans une zone où cela obstruerait les ouvertures de ventilation.
- Restreindre l'installation des transformateurs de courant dans une zone d'évacuation d'arc du disjoncteur. N'installez pas le moniteur d'énergie Emporia Vue dans une zone où les gaz d'échappement de la ventilation de l'arc du disjoncteur pourraient être redirigés à la suite de l'installation d'un équipement de sous-mesure.
- L'Emporia Vue n'est pas adapté aux méthodes de câblage de classe 2 et n'est pas destiné à être connecté à un équipement de classe 2. (Se référer à NEC 2023, l'article 725.)
- Sécurisez les transformateurs de courant et acheminez les conducteurs de manière à ce qu'ils n'entrent pas directement en contact avec les bornes sous tension ou les bus.
- L'Emporia Vue ne doit pas être monté à moins de 50,8 mm (2 pouces) de toute pièce sous tension, y compris les conducteurs primaires, les bornes primaires et les cosses primaires ; mais à l'exclusion des câbles isolés. Il est acceptable que le Vue soit monté sur le boîtier du panneau mis à la terre et près des barres omnibus neutres/terre. Le Vue utilise un câblage de classe I permettant à ses fils de coexister en toute sécurité avec tous les autres fils du panneau.
- Si le moniteur d'énergie Emporia Vue est fixé au boîtier, il ne doit pas entrer en contact avec l'isolation intérieure du panneau, telle que le matériau qui sépare les barres omnibus GND et LIVE.
- Les dispositions de montage du moniteur d'énergie Emporia Vue ne doivent être fixées à aucune pièce sous tension.
- Les connexions de détection de tension et d'alimentation électrique à la tension primaire doivent être protégées contre les surintensités par le biais d'une connexion à un disjoncteur/MCB.

LISTED
Energy Monitor
E535044

Measurement categories are defined by the CE and UL safety standard IEC 61010-1 and are used to indicate the ability of an instrument (like the Vue Energy Monitor) to withstand voltage spikes without posing a shock hazard to the operator. An instrument should only be used at or below its rated measurement category and voltage. For example, the Vue Energy Monitor is CAT III rated and can be used to monitor **CAT I**, **CAT II**, and **CAT III** circuits.

CAT III: This category is for measurements performed on equipment permanently installed in the building. Examples are measurements on motor control centers, circuit-breaker panels, junction boxes, switches, lighting fixtures, and wiring, including cables, bus-bars, and equipment for industrial use and some other equipment, for example, stationary motors with permanent connections to the electrical distribution system.

There are situations where the Vue Energy Monitor needs to monitor the main service entrance, which is classified as **CAT IV**. In this situation, the Vue voltage inputs (green screw terminal block) must be connected in a breaker panel or panel board, downstream of a the main disconnect, breaker, or fuses. The line voltages at this location will be essentially identical to the voltages measured at the main disconnect, so the Vue's measurements will be accurate.

IC: 28084-EMV3A

This device complies with Industry Canada licence-exempt RSS-247 standard. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. 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 tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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FCC ID:
2AS6P-EMV3A
Model: EMV3A

Federal Communication Commission Interference 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 in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications not expressly approved by Emporia void the user's authority to operate the equipment.

Designed by Emporia Corp in Littleton, Colorado, USA.
Manufactured by VVDN Technologies Pvt. Ltd.
Plot No: CP-07, Sector-8, IMT Manesar, Gurugram, Haryana - 122050.

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