EverCharge

EV03
48A Single – Phase
(E800-1052, E800-1053)
Installation Manual



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Fire and Electric Shock Hazard Instructions

Important Safety Instructions

This document contains important instructions and warnings that must be followed when installing and maintaining the EverCharge EV03. Before installing or using this EVSE, read this entire document as well as **Warnings** and **Cautions** markings in this document.

Save These Instructions

- **Warning**: Read all the instructions before using this product.
- **Warning**: This device should be supervised when used around children.
- **Warning**: EV03 must be installed by a trained and licensed electrician.
- **Warning**: High Voltage.
- **Warning**: EV03 must be grounded through a permanent wiring system or an equipment grounded conductor.
- **Warning:** Turn off input power at the circuit breaker before opening, installing or cleaning EV03.
- **Warning:** Never spray water or any other liquid directly at the wall mounted control box.
- **Warning:** Stop using and do not use the EV03 if it is defective, appears cracked, frayed, broken, or otherwise damaged, or fails to operate.
- **Warning:** Do not install or use the EV03 near the flammable, explosive, harsh, or combustible materials, chemicals or vapors.
- **Warning:**Use the EV03 only within the specified operating parameters.
- **Warning:** Do not attempt to disassemble, repair, tamper with, or modify EV03 Contact Evercharge for any repairs or modifications.
- **Warning:** Do not touch the EV03 end terminals with fingers or sharp metallic objects, such as wire, tools or needles.
- **Warning:** Please make sure the input voltage, frequency, and other conditions have conformed to equipment requirements before power on..
- **Warning:** Do not insert any foreign objects into any part of the EV03.
- **Warning:** When transporting the EV03 handle with care. Do not subject it to strong force or impact or pull, twist, tangle, drag, or step on the EV03 to prevent damage to it or any of its components.
- **Warning:** Do not forcefully fold or apply pressure to any part of the EV03 or damage it with sharp objects.
- **Warning:** Use of EV03 may affect or impact the operation of any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, Check with your electronic device manufacturer concerning effects that charging may have on such electronic device before using the EV03.

Cautions

- **Caution**: Do not operate EV03 in temperature outside its operating range of -22°F to 131°F (-30°C to +55°C) for E800-1053 and -22°F to 122°F (-30°C to +50°C) for E800-1052.
- **Caution**: Do not use private power generators as a power source for charging.
- **Caution**: Incorrect installation and testing of the EV03 could potentially damage either the vehicle's battery and/or EV03 itself. Any resulting damage is excluded from the Limited warranty.
- **Caution**: To reduce the risk of fire, connect only to a circuit provided with 60 amperes maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70 and the Canadian Electrical Code, Part I, C22.1.

Handling and Storage Instructions

Handling Instructions:

- In the process of unloading and handling, the forklift should be selected reasonably according to size and weight of the goods in order to avoid packaging containers from being dropped.
- In order to prevent the safety of placing and unpacking products affected by tilt and uneven ground, please choose a flat ground when unloading.
- If the containers need to be temporarily stored after unloading, it is recommended to keep sufficient space between each pallet to avoid damages to the packaging or pallet during the second transfer.

Storage Instructions:

- Due to the complexity of the environment and climate of project sites, it is required to store and stack the goods with a single layer after unloading in order to ensure the safe storage of the goods on site.
- The goods should be stored in complete outer packaging.
- The storage area should be protected, keeping the pallets and packaging containers from damp, direct sunlight, rain (waterproof) measures, and all other environmental hazards. The indoor storage temperature should be -40°F to 185°F (-40°C to +85°C).
- The grounds of the storage areas should be kept dry and leveled.
- Do not stack other items on the containers.

Important Notes:

⚠ **Title and risk of loss for the product transfer to you upon delivery. You are responsible for any damage to the product occurring after delivery.**

Disclaimer

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Introduction

The EVSE operates on a **208–240 V AC single-phase power supply** and delivers up to **48 A continuous current**, providing a maximum charging power of approximately **11.5 kW**. This allows faster charging compared to standard Level-1 charging solutions and is suitable for workplace and commercial charging applications.

The product is designed to meet major North American safety and regulatory standards including **UL 2594**, **UL 2231**, **FCC Part 15**, and **California Type Evaluation Program (CTEP)** requirements for safety, electromagnetic compatibility, and metering accuracy where applicable.

The EVSE features **user-interactive LED indicators** that provide clear visual information about the charging status, such as power availability, vehicle connection, active charging, and fault conditions. These indicators help users easily monitor the operation of the charger.

For safe and proper use, please read this user manual carefully before installing or operating the EVSE. This manual contains important information regarding installation, operation, safety precautions, and maintenance.

Specifications

Description	Specifications
Voltage and wiring	208V or 240V AC single-phase: L1, L2, and ground
Current	Maximum output: 48A
Frequency	60Hz
Cable length	E800-1053 24ft, E800-1052 18ft
Dimensions	15.7 in X 11.8 in X 5.3 in
Weight	20lb(9Kg)
Operating Temperature	E800-1053 -22°F to 131°F (-30°C to +55°C) E800-1052 -22°F to 122°F (-30°C to +50°C)
Storage Temperature	-40°F to 185°F (-40°C to +85°C)
Enclosure Rating	4X
Agency Approvals	UL, FCC, Energy Star
Ventilation	Not required
Environment	Indoor or Outdoor

Note: Ensure that the EV03 charging cable is positioned so it will not be stepped on, driven over, tripped on, or subjected to damage or stress.

Note: Do not use cleaning solvents to clean any of the EV03 components. The outside of the EV03, the charging cable, and the connector end of the charging cable should be periodically wiped with a clean, dry cloth to remove accumulation of the dirt and dust.

Note: Be careful not to damage the internal circuit boards or components during installation.

EverCharge System Overview

Wireless Communication

The EVSE is equipped with integrated Wi-Fi connectivity as a standard feature, enabling users to connect the charger to a local wireless network for monitoring, control, and firmware updates through a compatible mobile application or backend system. In addition, the EVSE supports optional LTE (cellular) connection where Wi-Fi access is unavailable or unreliable. When the LTE option is enabled, the device can communicate over a cellular network using a compatible SIM card, allowing remote access and functionality without dependence on local network infrastructure. Availability and performance of LTE services may vary based on network coverage and subscription plan.

Cloud Based System Management

EverCharge is managed through a cloud-based system management portal, allowing secure remote configuration of the system, management of users, as well as access to system status and usage information.

Note: Cloud connectivity outages will not affect the charging functionality of the system. Planning your installation.

Determine The Recommended Capacity For the System

The chart in this section shows power needed to supply a charge Group. A Charge Group is a group of stations that draw power from the same panel or breaker.

The following represent general guidelines. To ensure proper functionality contact an EverCharge installation expert for approval on all infrastructure designs at 415.429.2971 or install@evercharge.com

AC Charge Group Size (+/- 5 EVSE)	Recommended* Service Rating/Capacity	Voltage
1-2	60A	208V
5	80A	208V
10	125A	208V
15	150A	208V
20	200A	208V
30	250A	208V
50	400A	208V
100	800A	208V

Determine The Available Capacity

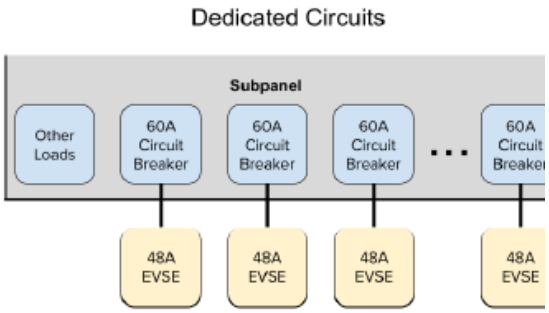
Use this checklist to note the nominal ratings for the building, starting at the main feeder and switch gear:

❏ Main Feeder: _____ amps
❏ Switchgear: _____ amps
❏Panel Board: _____ amps
❏ Meter Demand Reading: _____ amps (observed at time of visit)
❏Main Breaker: _____ amps (at the meter)
❏ 480/208V Transformer: _____ (if applicable)
❏ Panel Breaker Rating: _____ amps
❏ # of phases on the panel: _____ volts
❏ Line Voltage: _____ volts
❏ Panel Rating: _____ amps
❏ Existing Loads on the panel: _____ amps
❏ Estimated Available Panel Capacity: _____ amps
❏ Subpanel Rating: _____ amps(If applicable)
❏ Existing Loads on the Subpanel: _____ amps
❏ Estimated Available Subpanel Capacity: _____ amps

Connect an EverCharge charge station to an existing 208V or 240V panel if electrical capacity and physical space is available. If there is capacity but no available space, the installation will require a new subpanel. Sites without sufficient 208V-240V capacity may require installation of a new transformer to leverage 277V/480V capacity if available or new service.

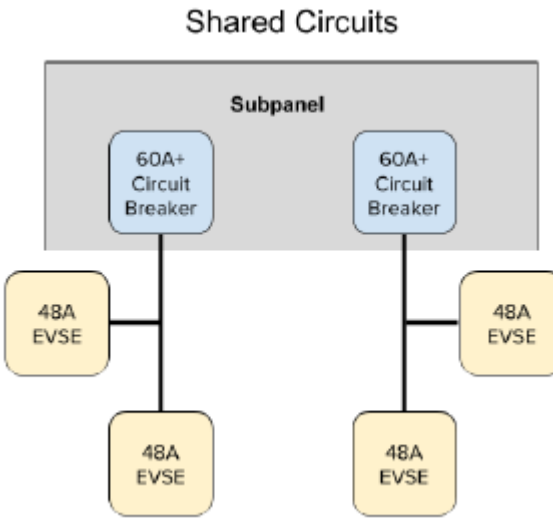
Typical System Layout Example

Two common configurations for the EverCharge system are shown in Figures 5.5.1 and 5.5 2. Charger stations MUST be protected with an overcurrent protective device. Contact EverCharge for site-specific layout assistance and approval at 415.429,2971 or install@evercharge.com



Case 1 - Figure 5.5.1

All AC charge stations are connected to individual circuit breakers in a panel that is Shared with other non- Evercharge Loads. Refer to section 5.3 to suggest a possible Panel size for available capacity on the sub panel.The Evercharge system will be configured to not exceed 80% of this available capacity regardless of the number of Ever Charge 60A circuit breakers in the panel.



Case 2 - Figure 5.5.2

All AC charge stations are connected to a larger Circuit breaker. Each has a 60A + breaker box installed adjacent to the AC charge station. In this configuration the larger circuit breaker should be rated to meet the recommended available capacity. The EverCharge system will be configured to not exceed 80% of the rating of the larger circuit breaker.

Charge Groups

Groups of charge stations may draw power from independent power sources at a site. Sets of charge stations drawing from the same power source belong to a Charge Group. While some smaller installations require only one Charge Group, the system supports any number. The amount of power that the EverCharge system will draw is set at the Charge Group level, which is then shared by individual charger stations.

In Case 1, the available power for the Charge Group is 80% of the available capacity on the subpanel, after other loads on the subpanel have been taken into account.

In Case 2, the available power for the Charge Group is 80% of the rating of the larger circuit breaker.

Charge Group Circuit Sharing

AC Chargers Per Single Circuit	Minimum Breaker Rating	Recommended Breaker Rating	Voltage
1	40A	60A	208V
2	40A	60A	208V
3	50A	60A	208V
4	50A	80A	208V
5	60A	80A	208V
6	60A	80A	208V
7	70A	100A	208V
8	80A	100A	208V
9	90A	100A	208V
10	100A	125A	208V

Minimum Requirements

Installation of the EV03 requires that you:

- Calculate the distance to ensure the minimal voltage drop.
- Obtain any necessary permits from the local authority that has jurisdiction and confirm that the follow-up inspection has been scheduled by an electrician after the installation is complete.
- Use only copper conductors.
- Use conductors that are sized in accordance with the local wiring regulations. The selected cable must be able to sustain periods of constant load of up to the maximum amperage selected by the electrician.
- Use protective devices. The circuit protection device chosen must incorporate overcurrent protection in relation to the electrical load selected.
- Mount between 24 and 48 inches above the floor outdoors. Suggested mounting height is 38.5 inches from the bottom.

Note: Consult with an electrician to ensure that the installation meets local regulations.

Service Wiring

Warning: The EV03 is a single phase device. Do not connect all three phases of a three-phase feed.

Warning: Before installing the EV03, identify the type of utility service connection available on site.

Caution: The two phases used must each measure 120V to neutral. Earth Ground must be connected to neutral at only one point, usually at the breaker panel.

Caution: If a 240V three-phase feed is from a Delta-connected secondary, the leg used must have a center tap. This center tap must be grounded. Only the two phases on either side of the center tapped leg can be used.

Caution: Wire nuts are not allowed in installations.Improper installation can result in loose connections, poor grounding, and cause the EVSE to enter an alarm state. Use only Polaris tap connectors, or equivalent, for junctions.

Only three wires are connected, but care must be taken that the service transformer secondary connection is definitely known, and that the three wires from the main circuit breaker panel are correctly connected and labeled.

Note: The L1, L2, and ground outputs labeled on the illustrations correspond to the inputs on the EV03.
Note: Illustrations in this document are for demonstration purposes only.

Ground Connection

This Electric Vehicle Supply Equipment (EVSE) must be connected to a properly grounded electrical system to ensure safe operation. Grounding reduces the risk of electric shock by providing a safe path for fault current.

The EVSE is intended to be permanently connected to a grounded metal wiring system or an equipment grounding conductor that is installed with the circuit conductors and connected to the equipment grounding terminal of the EVSE.

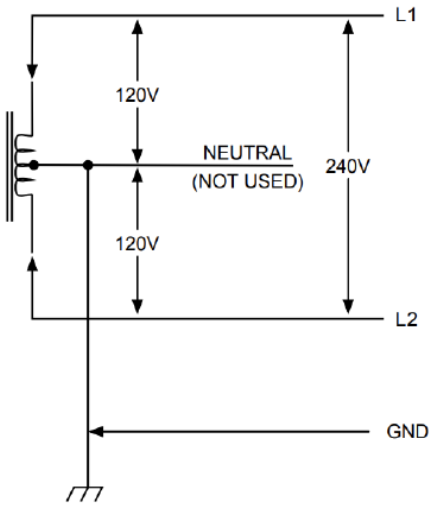
The charge station requires 208-240V across two legs. The charge station must be connected to a grounded, metal, permanent wiring system via the equipment grounding terminal on the EVSE.

Important Grounding Requirements

- The EVSE must be connected to a dedicated branch circuit with an appropriate circuit breaker.
- The equipment grounding conductor must be properly connected to the ground terminal inside the EVSE.
- Ensure that the grounding system complies with local electrical regulations before energizing the unit.
- Do not operate the EVSE if the grounding connection is damaged or missing.
- Installation must be performed by a qualified electrician.

⚠ **Warning:** Improper grounding can result in electric shock, equipment damage, or fire hazards. Always verify that the grounding system is correctly installed before operating the EVSE.

240V Single Phase



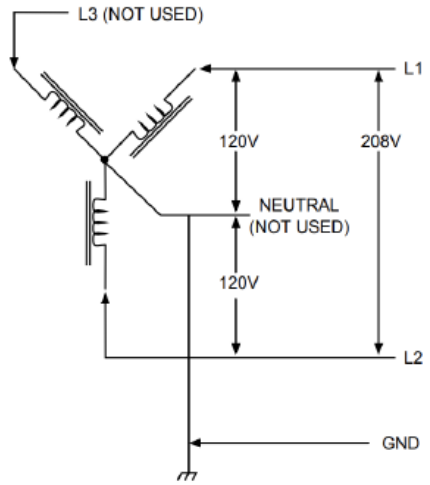
208V 3-Phase Wye-Connected

With a Wye-connected secondary, any two of the legs can be used to provide 208V to the EV03.
For example, L1 and L2, or L1 and L3, or L2 and L3. The two used phases must each measure 120V to neutral.

Note: A current-carrying neutral is not required.

⚠ **Caution:** The unused leg (L3 in the illustration) must remain open. Do not connect to a neutral bar, or to earth ground.

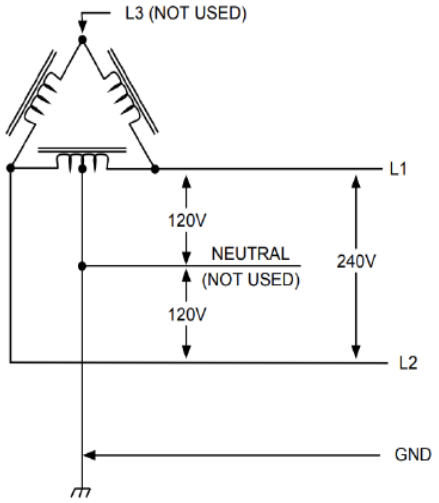
⚠ **Caution:** The center point of the three phases (normally used as neutral) must be grounded to earth at only one point. This is usually at the breaker panel.



240V Three Phase Delta Connected

With the delta connection, one leg must be center tapped, and only the two phases on either side of the center tap can be used. The two used phases must each measure 120V to neutral. Consult the transformer manufacturer's literature to verify that the single leg can supply the required power.

Note: The EV03's contactor closes only if it detects the presence of an earth ground wire connected to a neutral point on the transformer secondary.



⚠ **Caution**: The third line (L3 in the illustration) of the delta is 208V, with respect to neutral, and is sometimes referred to as a "stinger." Do not use this third line.

⚠ **Caution:** Do not use a three-phase delta connected transformer secondary without a center tap on one leg. No neutral point is available for the required earth ground connection.

⚠ **Caution:** Do not connect EV03 to a supply whose nominal voltage exceeds 240VAC RMS. Do not connect EV03 to 277VAC supplies.

Determine the circuit breaker requirements

To determine the type of upstream circuit breaker you need, examine the distribution panel or circuit breaker box to identify the amperage available at the installation site.

Choose the best location for EV03

Determine the parking location of the vehicle to ensure that the charge cable reaches the charge port. The EV03 should be located:

- In an enclosed garage, typically on the vehicle's charge port side.
- In a well-ventilated area. Avoid installation in an enclosed box, or adjacent to the hot appliances.
- 8 in from any obstructions to allow for cable looping.
- So that the distance to the vehicle charge port is not longer than the charge cord length of 24 feet.
- So the charge cord does not obstruct a walkway
- In a location which is protected from a vehicle collision
- With a clear line of sight to another charge station.

Installation Considerations

- Conduit openings are sized for 1" conduit.
- Conduit needs to meet local regulations.
- Use an appropriate upstream circuit breaker.
- Use a UL approved conduit circuit connector to ensure proper seal.

What Comes in the Box



I	Description (Quantity)
1	EV03 E800-1053 / EV03 E800-1052(1)

Step-by-Step Installation Instructions

Tools and Material Needed

- Packaging Drill Template
- Pencil or marker
- Drill Machine
- 1" trade size conduit and fittings appropriate for the installation site
- 2 4-AWG Copper wires for phase connection
- 1 10-AWG copper wire for Earth connection
- Phillips Screwdriver
- 3x screws appropriate for wall material mounting
- Small flat head screwdriver
- Torx Screw driver

Minimum 40A-rated Wire Gauge Requirements	
< 207' (1 or multiple EVSE installations)	#6
208-321'	#4
322-395'	#3
396-488'	#2
489-596'	#1

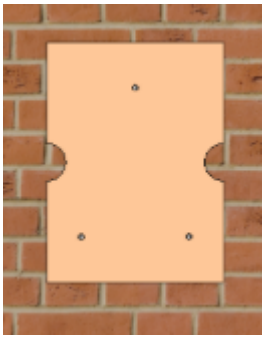
Minimum 60-A rated Wire Gauge Requirements	
< 138' (1 or multiple EVSE installations)	#6
139- 214'	#4
215-263'	#3
264-325'	#2
326-397'	#1
398-485''	1/0

⚠ **Warning:** After you run service wiring to the installation site, install the appropriate upstream circuit breaker. TURN OFF AND VERIFY POWER IS OFF BEFORE CONTINUING.

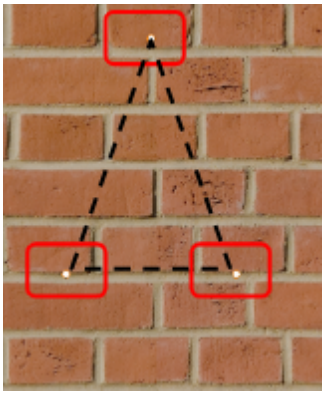
⚠ **Warning:** Do not connect the service wiring until you have read and fully understand the concepts described in this section. If you are uncertain about the type of power available at the service panel, consult an electrician or contact EverCharge for assistance.

Installation Instructions

1. Choose a flat and sturdy wall surface capable of supporting the weight of the EVSE unit. Ensure the location complies with the recommended mounting height and clearance requirements.
2. Place the provided drill template parallel to the wall to mark the hole position.



3. Drill pilot holes in the marked locations for screws that are appropriate for the type of wall material.

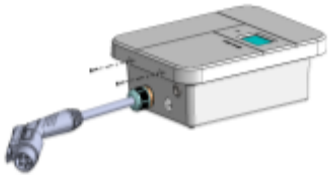


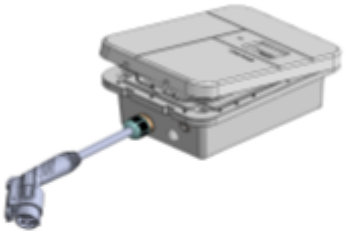
4. Install the topmost screw only, leaving about 6mm exposed.



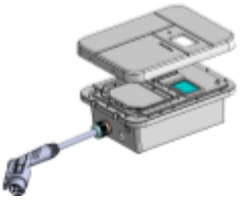


5. Remove the cosmetic cover by loosening the two screws on the bottom using an M4 socket head hex screwdriver. Gently pull the bottom edge of the cosmetic cover outward.Slightly push/lift the cosmetic cover upward to release the top hinge mechanism. Once the hinge is loosened, carefully detach the cosmetic cover from the top.Remove the cosmetic cover completely and place it aside safely.



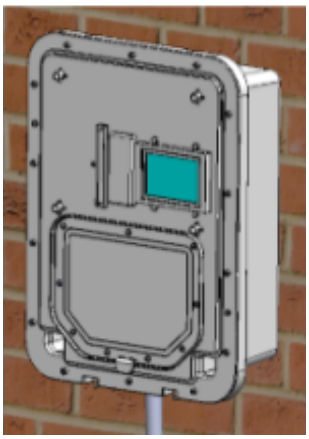




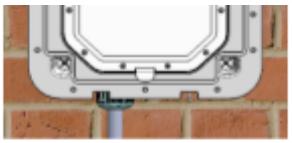


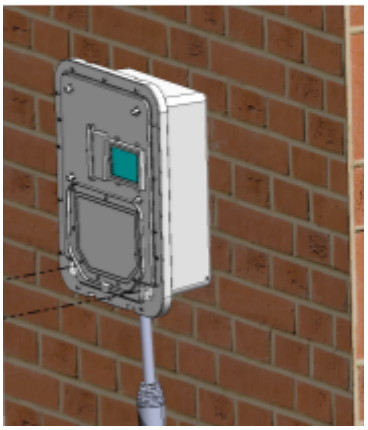
6. Hang the EV03 on the screw using the keyhole slot on the back of the unit.



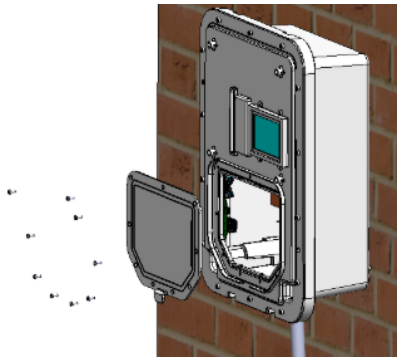


7. Align the pilot holes with the openings on the enclosure, and secure the unit to the wall with 2 additional screws.

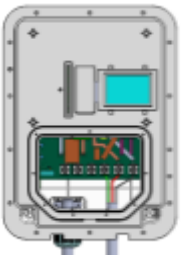


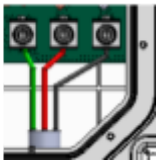


8. Remove the front access cover to expose the service wire terminal blocks, using a M3 PPH screwdriver.



9. Connect the service wire to the EVSE in accordance with local code.





Use 60A-rated copper conductors. The EVSE requires 208-240V.

Tighten the terminal blocks to the recommended torque

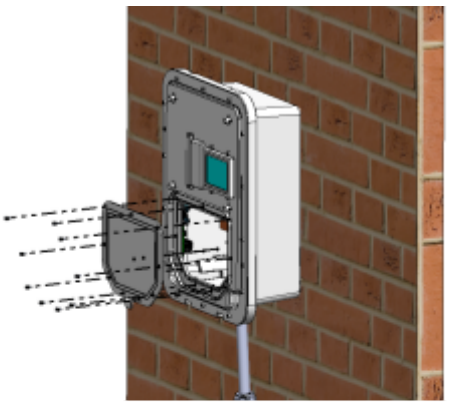
A. 45 in-lb 5.1 N-m) for power wires

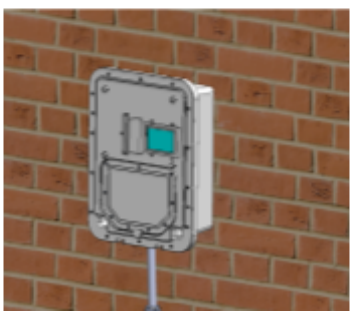
B. 40 in-lb 4.5 N-m) for ground wires

Note: Consult with your local electrician or refer to your local code for proper wire sizing appropriate for the currents in the unit.

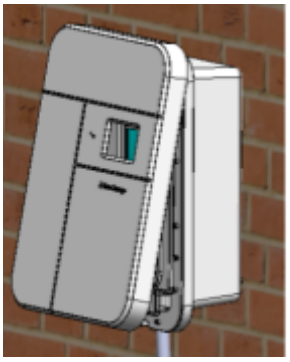
Note: It is the installer's responsibility to identify whether additional grounding is required to ensure that local regulations are met. Grounding must be installed at the power source and not at the cable entry to the unit.

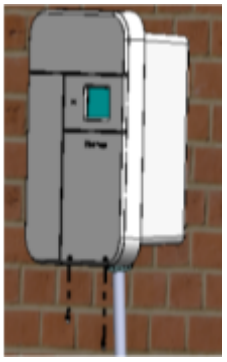
10. Replace the front access cover tightening all screws to 0.8 Nm (7 in-lb)





11. Replace the cosmetic cover, tightening both screws to 1.2 Nm (10 in-lb).





12. Turn on the power to the device. On first boot, the LED's will illuminate in BLUE, and the Display will prompt to activate the EVSE.



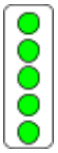
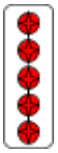
System Configuration and Testing

After installing all of the EVSEs, before users can charge their cars, the system must be configured so that at no point does the system ever try to draw more power than is allocated. Use the Evercharge Installer App to commission and configure the system and all installed hardware.

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Appendix A: Indicator LEDs and Troubleshooting

AC Charge Station LED Bar	Status	Troubleshooting Instructions
 OFF	No Power	• Ensure upstream circuit breaker is on. • Check wiring. EVSE needs 208V-240V. • If problem persists contact EverCharge
	OK: Not yet configured for use	Use the EverCharge installer app to commission the device.
	OK: Idle, ready to charge	Plug in the vehicle, wait for charging to begin.
	OK: Charging	N/A. Vehicle is Charging
	ERROR	• Do not use the EVSE until error is cleared • Display will provide additional information • Contact EverCharge Support

Note: Contact support if the LED's are illuminated in any state and the LCD display is off.

Appendix B: Warranty

EverCharge routinely updates its warranty terms and conditions. We endeavor to ensure that warranty terms included with products are updated as quickly as possible, but to ensure you are viewing the current warranty terms and conditions, please visit: evercharge.com/warranty.

About This Manual

Product Specifications

All specifications and descriptions contained in this document are verified to be accurate at the time of printing.

Communications Regulations

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.

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