



EverCharge ⚡

**EV002 80A Single-Phase
(E800-1001)
Installation Manual**

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Safety

Important Safety Instructions

This document contains important instructions and warnings that must be followed when installing and maintaining the EverCharge EV002.

Warnings

- ⚠ Warning:** Read all instructions before starting installation.
- ⚠ Warning:** This device should be supervised when used around children.
- ⚠ Warning:** EV002 must be installed by a trained and licensed electrician.
- ⚠ Warning:** High voltage.
- ⚠ Warning:** EV002 must be grounded through a permanent wiring system or an equipment grounding conductor.
- ⚠ Warning:** Turn off input power at the circuit breaker before installing or cleaning EV002.
- ⚠ Warning:** Never spray water or any other liquid directly at the wall mounted control box.
- ⚠ Warning:** Stop using and do not use the EV002 if it is defective, appears cracked, frayed, broken, or otherwise damaged, or fails to operate.
- ⚠ Warning:** Do not install or use the EV002 near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
- ⚠ Warning:** Use the EV002 only within the specified operating parameters.
- ⚠ Warning:** Do not attempt to disassemble, repair, tamper with, or modify the EV002. Contact EverCharge for any repairs or modification.
- ⚠ Warning:** Do not touch the EV002's end terminals with fingers or sharp metallic objects, such as wire, tools, or needles.
- ⚠ Warning:** Do not insert any foreign objects into any part of the EV002.
- ⚠ Warning:** When transporting the EV002, handle with care. Do not subject it to strong force or impact or pull, twist, tangle, drag, or step on the EV002, to prevent damage to it or any of its components.
- ⚠ Warning:** Do not forcefully fold or apply pressure to any part of the EV002 or damage it with sharp objects.
- ⚠ Warning:** Use of the EV002 may affect or impair 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 devices before using the EV002.

Cautions

- ⚠ Caution:** Do not operate EV002 in temperatures outside its operating range of -22°F to 122°F (-30°C to +50°C).
- ⚠ Caution:** Do not use private power generators as a power source for charging.
- ⚠ Caution:** Incorrect installation and testing of the EV002 could potentially damage either the vehicle's battery and/or the EV002 itself. Any resulting damage is excluded from the Charging Equipment Limited Warranty.

Specifications

Description	Specifications
Voltage and Wiring	208V or 240V AC single-phase: L1, L2, and ground
Current	Maximum output: 80A (19.2kW) and is controlled by an automatic load management system.
Frequency	60 Hz
Cable Length	24 feet
EV002 Dimensions	13 in x 8 in x 5 in
Weight	20 lb (9 kg)
Operating Temperature	-22°F to 122°F (-30°C to +50°C)
Storage Temperature	-40°F to 185°F (-40°C to +85°C)
Enclosure Rating	Type 3R
Agency Approvals	UL listing E511397
Ventilation	Not Required
Environment	Indoor or Outdoor

Note: Ensure that the EV002 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 EV002's components. The outside of the EV002, the charging cable, and the connector end of the charging cable should be periodically wiped with a clean, dry cloth to remove accumulation of dirt and dust.

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

EverCharge System Overview

Power Management

The EverCharge system is a listed automatic load management system that complies with:

- UL 916 Energy Management Equipment
- NEC 2017 Article 625 Electric Vehicle Charging System

All EverCharge EVSEs are connected to a self-managed wireless mesh network in the garage, and require active approval from the network of the other EVSEs before starting a charge. That approval will not be given if there is not sufficient spare power available. EverCharge EVSE will automatically manage their demand to ensure sufficient power is available before allowing another charge to start.

Should an EVSE lose connection to the mesh network, it will not be able to start a charge.

During provisioning, before the system can start delivering power, EVSE will be programmed with an understanding of the power distribution system at all levels, from individual EVSEs sharing circuits, up to the subpanel/panel level, and any transformers, all the way up to building scale as necessary. This will ensure that demand limits will not be reached across all charging-related hardware in the building.

Wireless Communication

The EverCharge system communicates via an internal wireless mesh network to regulate power. This wireless network, generated by EverCharge charge stations, does not require Wi-Fi or other network resources from the installation site.

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.net

AC Charge Group Size (+/- 5 EVSE)	Recommended EverCharge Service Rating / Capacity	Voltage
1-2	100A	208V
5	150A	208V
10	225A	208V
15	350A	208V
25	600A	208V
50	1200A	208V
100	2250A	208V
Based on 12 hour downtime with 70kWh average charge requirement per vehicle		

Determine The Available Capacity

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

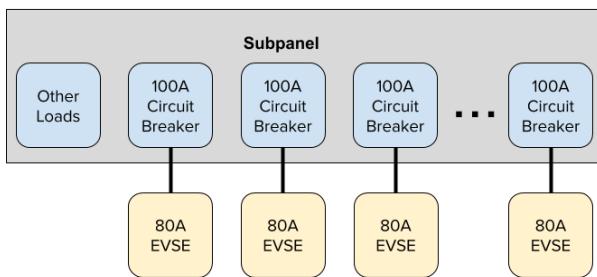
- Main Feeder: _____ amps
- Switchgear: _____ amps
- Panel Board: _____ amps
- Meter Demand Reading: _____ amps (observed at time of visit)
- Main Breaker: _____ amps (at the meter)
- 480 / 208V Transformer: _____ (if applicable)
- Panel Breaker Rating: _____ amps
- # of Phases on the Panel: _____
- 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 Examples

Two common configurations for the EverCharge system are shown in Figures 2.3.1 and 2.3.2. 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.net.

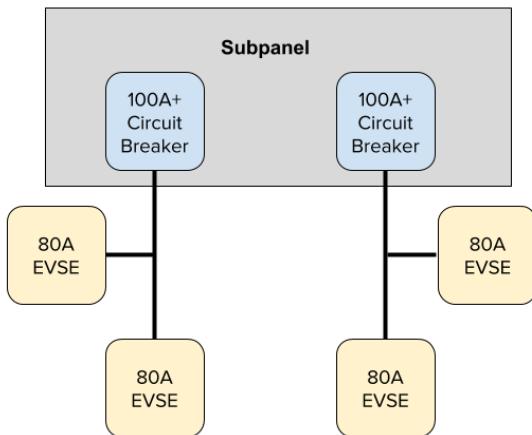
Dedicated Circuits



Case 1 - Figure 2.3.1

All AC charge stations are connected to individual circuit breakers in a panel that is shared with other non-EverCharge loads. Refer to Section 2.1 to suggest a possible panel size for available capacity on the subpanel. The EverCharge system will be configured in Section 4 to not exceed 80% of this available capacity regardless of the number of EverCharge 100A circuit breakers in the panel.

Shared Circuits



Case 2 - Figure 2.3.2

All AC charge stations are connected to a larger circuit breaker. Each has a 100A 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	100A	100A	208V
2	100A	125A	208V
3	100A	150A	208V
4	100A	150A	208V
5	100A	200A	208V
6	125A	200A	208V
7	150A	250A	208V
8	175A	250A	208V
9	200A	300A	208V
10	225A	300A	208V

Minimum Requirements

Installation of the EV002 requires that you:

- Calculate the distance to ensure 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 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 at least 18 inches above the floor inside, 24 inches outdoors. **Suggested mounting height is 38.5 inches from the bottom.**
- For commercial installations in California, EV002 shall be mounted so that the nameplate is **at least 24" and no more than 60" from ground level**

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

Service Wiring

⚠ Warning: The EV002 is a single phase device. Do not connect all three phases of a three-phase feed.

⚠ Warning: Before installing the EV002, 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.

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.

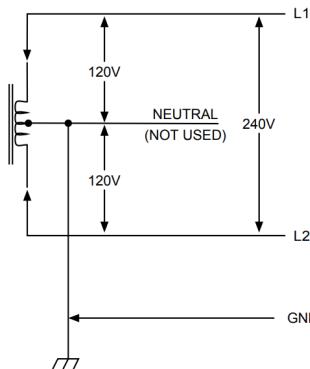
Note: The L1, L2, and ground outputs labeled on the illustrations correspond to the inputs on the EV002.

Note: Illustrations in this document are for demonstration purposes only.

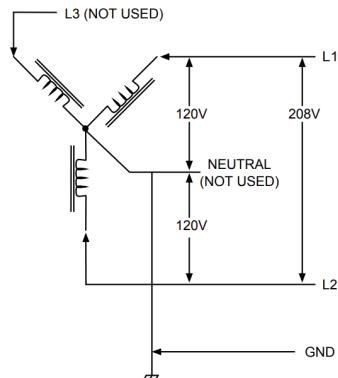
Ground Connection

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.

240V Single-Phase



208V 3-Phase Wye-Connected



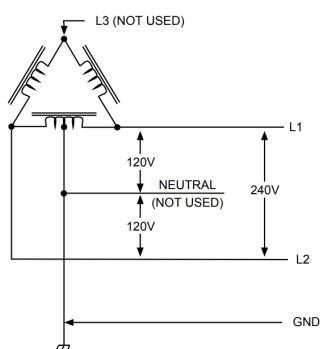
With a Wye-connected secondary, any two of the legs can be used to provide 208V to the EV002. For example, L1 and L2, or L1 and L3, or L2 and L3. The two used phases must each measure 120V to neutral.

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 EV002'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 EV002 to supply whose nominal voltage exceeds 240VAC RMS. Do not connect EV002 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 the EV002

Determine the parking location of the vehicle to ensure that the charge cable reaches the charge port. The EV002 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 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 charge cord length of 22 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 or mesh box

Note: The EV002 is approved for outdoor use, but it is not designed for complete immersion in liquid.

Installation Considerations

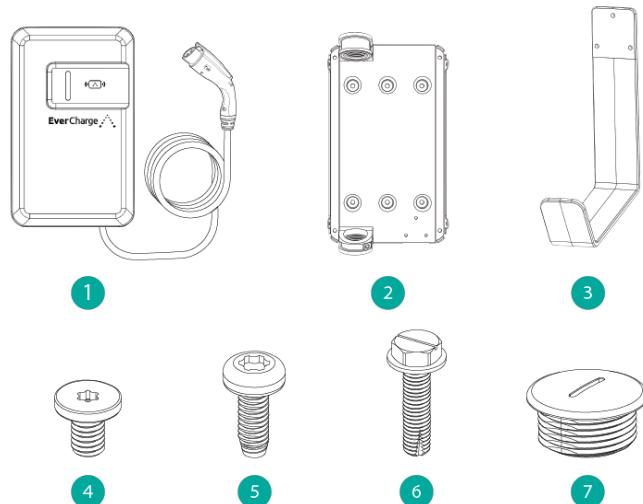
- Conduit openings are sized for 1" conduit.
- Conduit needs to meet local regulations.
- Use an appropriate upstream circuit breaker.
- Use a UL approved conduit circuit connector to ensure proper seal.

Tapped Installations

The EverCharge EV002 includes an integrated 100-Amp 10K AIC overcurrent safety disconnect to simplify the installation of the EVSE in a tapped configuration, where multiple EVSEs share the same circuit.

All Taps must comply with NEC code section 240.21(B)(1) through 240.21(B)(5). For dedicated installations, this length requirement does not apply, as the EVSE can be any length from the source breaker so long as voltage drop considerations are made.

What Comes in the Box



Item	Description (Quantity)
1	EV002 (1)
2	Mounting Bracket (1)
3	Cable Hanger (1)
4	EV002 to Mounting Bracket Screw (4)
5	Cable Hanger Screw (3)
6	Electrical Grounding Screw (1)
7	Conduit Plug (1)

Step-by-Step EverCharge EV002 Charge Station Installation Instructions

Tools and Materials Needed

- Pencil or marker
- Wire stripper
- 1" trade size conduit and fittings appropriate for the installation site
- 100A-rated copper conductors
- Voltmeter or digital multimeter (to measure AC voltage at the installation site)
- Phillips screwdriver
- Small flathead screwdriver
- T10 Torx screwdriver
- T20 Torx screwdriver
- 4-6x screws appropriate for wall material mounting

Minimum 100A-rated Wire Gauge Requirements	
< 125 Feet. (1 or multiple EVSE installations)	#3
125-155 Feet.	#2
155-197 Feet.	#1
197-262 Feet.	1/0
262-310 Feet.	2/0
310-395 Feet.	3/0

⚠ 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)

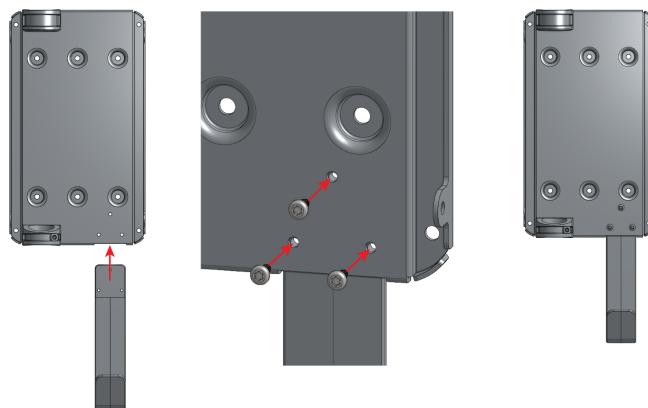


Use the mounting plate as a template, position the mounting bracket into location. Ensure the conduit fits properly into the opening on the mounting bracket and mark the location for the screws. **Do not use the three circled holes.** Use screws that are appropriate for the type of wall material.

2) Secure the mounting bracket to the wall.

Mounting Surface	Anchoring Method
Drywall	When possible align to stud and use #10 x 1-3/4" wood screw in two central hole locations, in combination with 1/4" wall anchors in remaining holes. If no stud available, use 1/4" wall anchors, rated for at least 85 lbs, in all 6 central locations
Plywood	#10 x 1-3/4" wood screws in 4 central hole locations
Concrete	1/4" x 1-3/4" Concrete Screws in 4 central hole locations

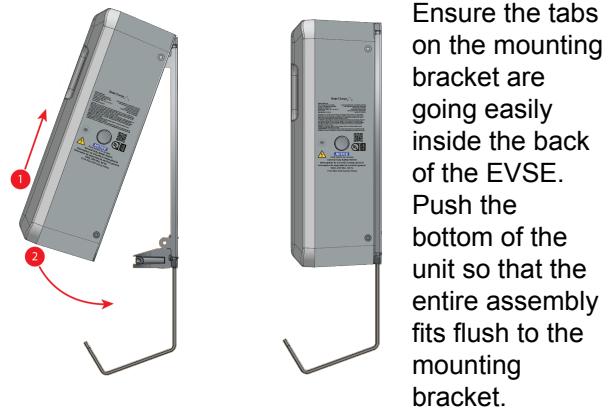
3) (Optional) Slide cable hanger behind the mounting bracket on the lower left hand side of the unit. Secure the cable hanger in place with 3 M4x8 taptite screws, tighten to 38 in-lbs.



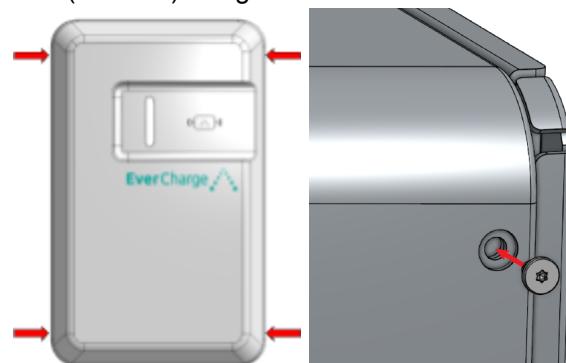
4) Secure the conduit and fittings to the top or bottom inlet of the mounting bracket.

- a) **For top wired installations:** Pull service wiring through the inlet. Strip the service wires 1/2". **This step can be completed before or after securing the enclosure to the mounting bracket.**
- b) **For bottom wired installations:** complete steps 4 & 5, then pull the service wiring through the inlet. Strip the service wires 1/2". **This step must be completed AFTER the enclosure is secured to the mounting bracket.**

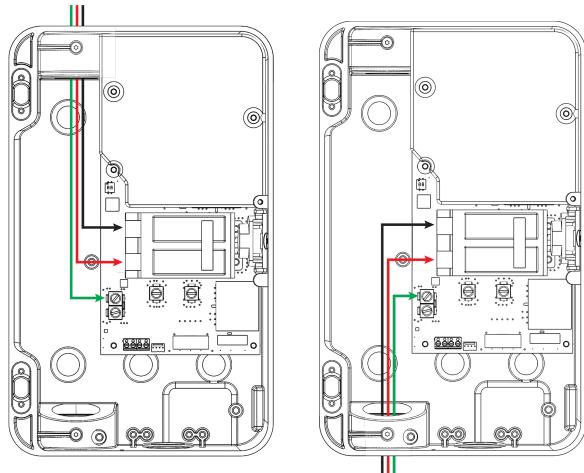
5) Angle the top of the unit, and align the top inlet to the EVSE.



6) Secure the EV002 to the mounting plate with the four provided fasteners. Tighten the fasteners to 20 in-lb (2.3 N-m) using a T10 torx screwdriver.



- 7) Connect wiring to the EVSE in accordance with local codes. Use 100A-rated copper conductors. The EVSE requires 208-240V.



Top-Wired Install

Bottom Wired Install

Tighten the terminal block to the recommended torque:

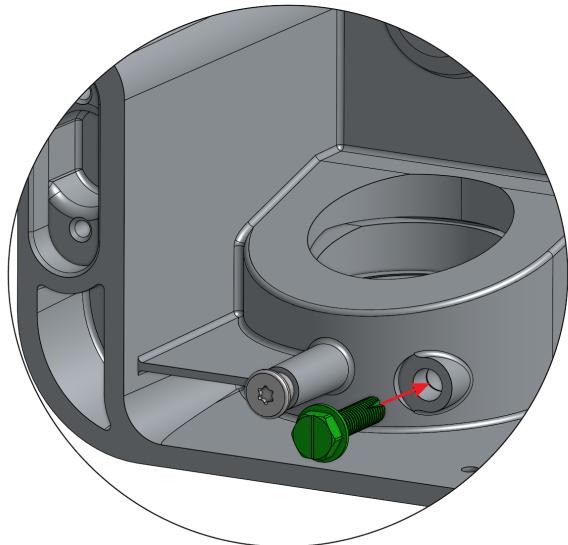
- a) 45 in-lb (5.1 N-m) for power wires
- b) 40 in-lb (4.5 N-m) for ground wires

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.

- 8) Check for miswiring using the multimeter and verify that there are no shorts before turning the upstream circuit breaker ON.

- 9) Insert the 10-32x.750 electrical grounding screw into the hole at the bottom left of the unit, tightening to 38 in-lb.



Secure the Cover and Power Up

1. Align the sealing cover with the screws and slide into position.



2. Close the front cover. Close any unused openings with power and signal conduit plugs.
3. Turn ON the power. The installation is correct if the LEDs go through a sequence of flashing, ending with the green LED staying steadily ON. If there is a solid or flashing Red LED, contact EverCharge.
4. Attempt to charge a vehicle to ensure the EV002 is operating correctly and charging at the selected operating current. For instructions on how to charge, refer to the owner information manual provided with the vehicle.

System Configuration and Testing

⚠ Warning: 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. Contact EverCharge to commission and configure the system and all installed hardware.

Please reach out to EverCharge at 415.429.2971 or install@EverCharge.net so we can configure the chargers based on the site configuration worksheet and supply instructions.

Testing Instructions

Make sure that each EVSE is displaying a solid green LED before starting testing. EVSEs require roughly a minute to initialize after getting power. If an EVSE blinks red for more than a minute, contact EverCharge.

Test an assigned card by tapping it to the EVSE. The EVSE should beep twice, then within 10 seconds, it should beep twice again and the LED should cycle between green/orange for two minutes, indicating the card was authorized and the system is ready to charge.

Appendix A: Indicator LEDs and Troubleshooting

AC Charge Station Indicator Light	Status	Troubleshooting Instructions
SOLID GREEN/ONE FLASHING GREEN	OK: Ready / Idle SmartPower Mode	N/A
SOLID GREEN/THREE FLASHING GREEN	OK: Ready / Idle Fixed Output Mode	N/A
FLASHING GREEN / YELLOW	OK: Card authenticated / In queue to charge	Plug in the vehicle, wait for charging to begin.
PULSING GREEN	OK: Charging	This is the appropriate indication that the vehicle is plugged in and charging properly
PULSING YELLOW	OK: Charge pending/car is full	N/A
SOLID RED	ERROR: Wiring / ground fault	Check wiring. EVSE needs 208V-240V. If problem persists contact EverCharge
PULSING RED	ERROR: EVSE not configured for use	The EVSE will pulse red until a connection with the internal network board is established. If light continues to flash red contact EverCharge.
BLINKING RED	ERROR: Core EVSE error. Number of blinks will indicate error state	EVSE does not have a good connection with other EVSEs. Relay network boxes may be required to resolve # of blinks/error 1. GFCI 2. GMI 3. Miswired 4. Over/Under Voltage 5. Overcurrent

Appendix B: Operating the Safety Switch

Each EV002 comes equipped with a 100A, 240VAC, 60Hz General Duty safety switch rated at 10kA max interrupting rating. To operate the switch:

1. Press the button on the side of the unit to open the door.



2. Turn the switch to the off position.



3. Secure the switch in the off position with a lock, or other appropriate locking means, and a lock-out tag.



⚠ Warning: Never operate switch with the occlusion panel off

⚠ Warning: Wear appropriate PPE and follow all safety electrical practices outlined in NFPA 70E

⚠ Warning: Turn OFF power ahead of switch before doing any work inside. Replace all parts. Close cover before turning power ON.

⚠ Warning: Switch does not de-energize incoming feed, but does disconnect output of the device

Appendix C: Securing the Lid

The lid can be secured with a screw for added security. This is an optional step and should not be used in tapped installations.

1. Use a T20 torx driver, remove the security screw from the occlusion panel.



2. Tighten the security screw on the right side of the unit. Tighten screw to 10 in-lbs

Note: There should not be any visible openings to the inside of the EV002, and the EV002 should be completely sealed off from the environment.



Appendix D: Warranty

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

THE LIMITED WARRANTY CAN ALSO BE FOUND IN THE DOCUMENTATION WE PROVIDE WITH THE PRODUCT. WE WARRANT THAT DURING THE WARRANTY PERIOD, THE PRODUCT WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP.

WE LIMIT THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. OUR RESPONSIBILITY FOR DEFECTIVE GOODS IS LIMITED TO REPAIR OR REPLACEMENT AS DESCRIBED BELOW IN THIS WARRANTY STATEMENT.

WHO MAY USE THIS WARRANTY?

EverCharge, Inc. ("we") extends this limited warranty only to the consumer who originally purchased the product ("you"). It does not extend to any subsequent owner or other transferee of the product.

WHAT DOES THIS WARRANTY COVER?

This limited warranty covers defects in materials and workmanship of the EverCharge charger (the "product") for the Warranty Period as defined below.

WHAT DOES THIS WARRANTY NOT COVER?

This limited warranty does not cover any damage due to: (a) transportation; (b) storage; (c) improper use; (d) failure to follow the product instructions or to perform any preventive maintenance; (e) modifications; (f) unauthorized repair; (g) normal wear and tear; or (h) external causes such as accidents, abuse, or other actions or events beyond our reasonable control.

WHAT IS THE PERIOD OF COVERAGE?

This limited warranty starts on the date of your purchase and lasts for two (2) years (the "Warranty Period") unless extended upon mutual written agreement between the parties. The Warranty Period is not extended if we repair or replace the product. We may change the availability of this limited warranty at our discretion, but any changes will not be retroactive.

WHAT ARE YOUR REMEDIES UNDER THIS WARRANTY?

With respect to any defective product during the Warranty Period, we will, in our sole discretion, either: (a) repair or replace such product (or the defective part) free of charge or (b) refund the purchase price of such product. We will also pay for shipping and handling fees to return the repaired or replacement product to you if we elect to repair or replace the defective product.

HOW DO YOU OBTAIN WARRANTY SERVICE?

To obtain warranty service, you must call 1 (888) 342-7383 or email our Customer Service Department at support@evercharge.net during the Warranty Period to obtain a Defective Merchandise Authorization ("DMA") number. No warranty service will be provided without a DMA number.

LIMITATION OF LIABILITY

THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED WARRANTY. OUR LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT, NOR SHALL WE UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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.

Copyrights and Trademarks

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EverCharge EV002 Manual

P/N E140-1001