

**EVOCHARGE**<sup>™</sup>

# EVOCHARGE<sup>®</sup> EVSE CHARGING STATION (EVSE, iEVSE<sup>®</sup>, iEVSE<sup>®</sup> Plus)

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## User Manual & Installation Guide

Revision 1.3

French Translation can be located at [phillipsandtemro.com](http://phillipsandtemro.com)



# IMPORTANT SAFETY INSTRUCTIONS

This document contains instructions and warnings that must be followed when installing and using the Electric Vehicle Supply Equipment (EVSE). Before installing or using the EVSE, read this entire document as well as WARNING and CAUTION markings in this document.

## Safety Instructions

The symbols used have the following meaning:

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WARNING: RISK OF PERSONAL INJURY



WARNING: RISK OF ELECTRIC SHOCK




WARNING: RISK OF FIRE



CAUTION: RISK OF DAMAGE TO THE EQUIPMENT

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- The charging station must be installed, adjusted, and repaired only by a licensed electrician.
- Make sure that the materials used, and the installation procedures follow local building codes and safety standards.
- The information provided in this manual in no way exempts the user of responsibility to follow all applicable codes or safety standards.
- This document provides instructions for the charging station and should not be used for any other product. Before installation or use of this product, review this manual carefully and consult with a licensed contractor, licensed electrician, or trained installation expert to make sure of compliance with local building codes and safety standards.
-  CAUTION: To reduce the risk of fire, connect only to a circuit provided with the minimum branch circuit overcurrent protection requirements in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part I, C22.1.

## Repair and Maintenance Clause

- All EVOCHARGE products do not require routine maintenance however, periodic inspections should be conducted to ensure that all parts remain in good working order and no damage exists. Do not attempt to open, disassemble, repair, tamper with, or modify any components of the products – the products are not user serviceable. Contact EVOCHARGE for any repairs.
- Only licensed electricians can repair or maintain the charging station. It is forbidden for general users to repair or maintain it. Turn off input power before performing any repairs or maintenance to the charging station.

## FCC Declaration of Conformity

- This charging station complies with part 15 of the FCC Rules. Changes or modifications the charging station not expressly approved by the manufacturer could void FCC compliance.
- Operation is subject to the following two conditions: (1) This charging station may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## OVERALL WARNINGS & CAUTIONS

### WARNING: RISK OF ELECTRIC SHOCK



Basic precautions should always be followed when using electrical products, including the following:

- Read all the instructions before using this product.
- This device should be supervised when used around children.
- Do not put fingers into the EV connector.
- Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.



### WARNING: RISK OF ELECTRIC SHOCK

Improper connection of the equipment grounding conductor can 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.



### WARNING: RISK OF ELECTRIC SHOCK

- Do not touch live electrical parts.
- Incorrect connections may cause electric shock.

WARNING: This equipment is intended only for charging vehicles that do not require ventilation during charging. Please refer to your vehicle's owner's manual to determine ventilation requirements.

# Product Features

## EVOCHARGE® EVSE Electric Vehicle Charging Station (EVSE)

- J1772 AC Level 2 (208-240 VAC), 32A Continuous Rated (7.7 kW)
- Adjustable Maximum Current Output (32A, 24A, 16A) to Support Multiple Circuit Ratings (40A, 30A, 20A)
- Modern, Elegant & Compact Design: EVSE form factor smaller than a standard sheet of letter-size paper
- Robust Construction, Certified for Outdoor Use: Robust, durable design; tamper-resistant features; NEMA 4 certified for outdoor and indoor use
- Simple Operation: No user interface required with EVSE, simply Plug-in to your EV to initiate charging
- Cable & Connector Management: Standard Connector and Cable Holster, Optional EVOREEL® & Retractor Cable Management Systems available from EVOCHARGE.
- Portable: Standard Plug-in Configuration for easy portability
- Simple, Flexible Mounting Options: Wall Mount (including single stud mount), Pedestal (available from EVOCHARGE), Bollard/Pole (Single & Dual Port)
- UL & cUL Listed, File Number: E469990



## Adjustable Maximum Current Output to Support Multiple Circuit Ratings

The EVOCHARGE EVSE charging station product features the ability to adjust the maximum Charging Station current output to allow the use of a 40A (or greater), 30A, or 20A Dedicated Circuit as follows:

- 40A (or greater) Circuit Rating: To support 32A (7.68 kW) maximum Charging Station output
- 30A Circuit Rating: To support 24A (5.76 kW) maximum Charging Station output
- 20A Circuit Rating: To support 16A (3.84 kW) maximum Charging Station output

Notes on Circuit Requirements and Amperage settings:

- The Charging Station Default Factory Maximum Current Output Setting is 32A (7.68 kW) for use with a 40A (or greater) Circuit Rating – Please refer to Adjusting Maximum Current Output on page 9 when using a 30A or 20A Circuit Rating.
- To obtain the fastest charging capability of 32A, a 40A (or greater) Circuit Rating must be used.
- The Circuit must be a DEDICATED CIRCUIT 208-240 VAC, 50-60 Hz, Single Phase
- Per National Electric Code (NEC), only 80% of the circuit rated load may be utilized, hence the higher Circuit Ratings Requirement relative to maximum Charging Station output)

The ability to utilize alternate circuit ratings can be beneficial in the instance the location of installation cannot support a 40A or greater circuit, or in instance where an existing 30A or 20A dedicated circuit is already installed.

## Security and Tamper Feature

In addition to the lock screw that secures the EVOCHARGE EVSE charging station to the wall mount bracket (Refer to Section 2.3, Note 3., Installing the Charging Station), if desired, a feature is included as part of the charging station and wall mount bracket to install a small padlock for added security and tamper benefits. This feature is located at the bottom of the charging station near the charging station – wall bracket lock screw.

## Self-Monitoring and Recovery | Power Outage Recovery

When a charging session is interrupted due to a temporary error condition, the charging station will automatically restart charging when the cause of the temporary error condition returns to normal. The status indicator lights remain flashing RED until the error condition is resolved.

- Temporary error conditions include: Over Current, Over Voltage, Under Voltage, and Over Temperature.
- For Over Current (OC) conditions: The charging session will be stop while OC occurs. After recovery from OC for 30 seconds, the charging station will automatically restart charging for three times.
- When charging session stopped due to CCID trip, the charging station will try to restart after 15 minutes for 3 times.

When power resumes after an outage, the charging station restarts automatically with a delay ranging from 120 to 720 seconds. The delay is designed to avoid impacting the utility grid when multiple charging stations are in the same area attempting to resume charging simultaneously.

# Product Specifications

## EVOCHARGE EVSE Electric Vehicle Charging Station (EVSE)

Description	Specifications
Connector / EVSE Level	SAE J1772; AC Level 2
Max Output Rating	32A; 7.68 kW Maximum Output – For use with 40A (or greater) Circuit Rating
Alternate Adjustable Output Ratings	24A; 5.76 kW Maximum Output – For use with 30A Circuit Rating 16A; 3.84 kW Maximum Output – For use with 20A Circuit Rating
Electrical Circuit / Input Power Requirements	208-240VAC, 50/60 Hz.; Circuit Requirement: Dedicated; Branch Breaker: Double pole; Circuit Conductors: Line 1, Line 2, Earth Ground
Input Power Connection	Standard: Plug-in, NEMA 6-50 Plug (Removable for Hardwire Connection); iEVSE Standard: Hardwire
Charging Station Color	Standard: White
Installation Rating	NEMA 4, Indoor/Outdoor Rated
Operational Ratings	Temperature: -22°F to 122°F (-30°C to 50°C); Humidity: 95% RH non-condensing
Mounting	Wall or Pedestal Installation (Optional EVOREEL supports Overhead Mounting)
Overall Dimensions	EVSE: 11.0 x 7.5 x 3.2 inches (28.0 x 19.0 x 8.1 cm)
Display & Indicators	LED Charge Status Indicators (Power/Ready, Charging, Fault)
Cable Management	Standard: Connector/Cable Holder Optional: EVOREEL & Retractor Cable Management
Standards & Compliance	UL & cUL Listed, File Number: E469990; SAE J1772, UL 2594, UL 355, CSA

# SAVE THESE INSTRUCTIONS

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# 1 Introduction & Unpacking

This user manual applies to the EVOCHARGE EVSE for Plug-in Hybrid Electric Vehicles (PHEVs) and Electric Vehicles (EVs).

## 1.1 Unpacking

Unpackage all items and confirm the contents as noted below.

\*Please Note: Do Not discard the packaging material before removing the Plug (Connector) & Cable Holder as well as the Mounting Fasteners for both the Charging Station Mounting Bracket and Connector & Cable Holder – these items are packaged within a compartment of the charging station cardboard packaging.

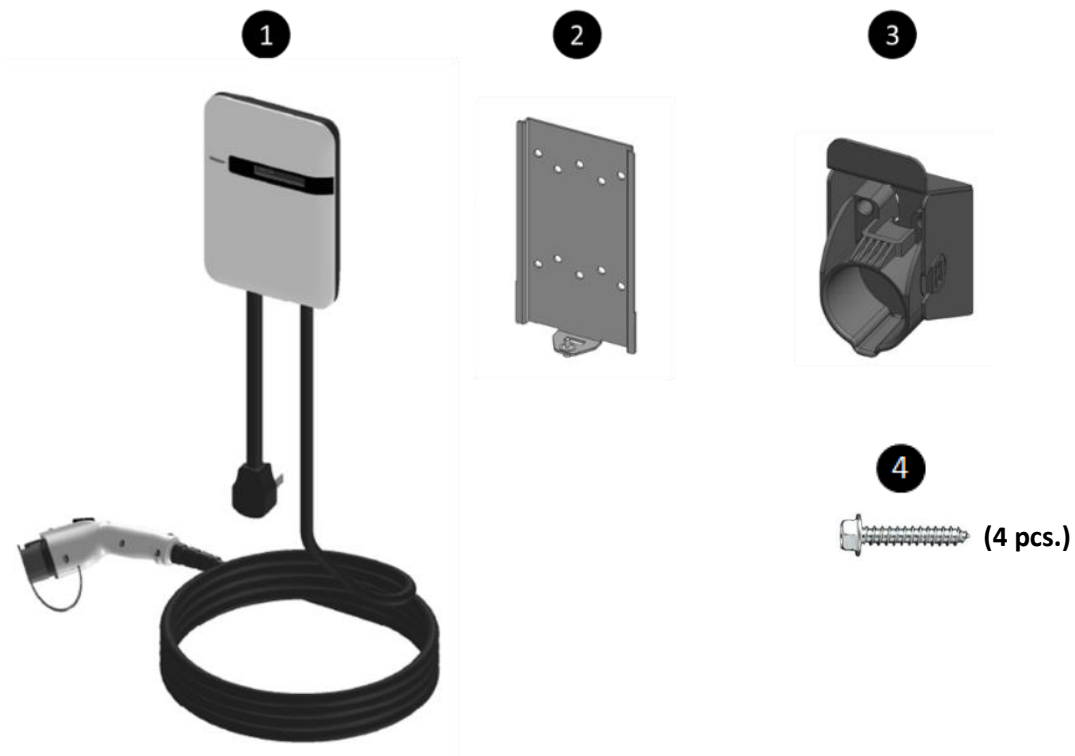


Figure 1-1 Box Contents

Table 1-1 Box Contents

Item	Description	Qty.	Notes
1	Charging Station	1	
2	Charging Station Mounting Bracket	1	Bracket is Attached to Charging Station
3	Connector & Cable Holder	1	Holder is packaged within cardboard compartment of charging station packaging
4	Mounting Fasteners	4	2 Fasteners for Charging Station Mounting Bracket 2 Fasteners for Connector & Cable Holder



# 2 Installation

## 2.1 Before Installation

### 2.1.1 Installation Planning & Service Wiring

**WARNING: RISK OF ELECTRIC SHOCK**

- Do not touch live electrical parts.
- Incorrect connections may cause electric shock.
- Disconnect the power supply to the charging station and verify no power is present before installing, adjusting, or repairing the charging station. Failure to do so may result in physical injury or damage to the power supply system and the charging station.

The charging station must be installed only by a licensed electrician in accordance with the provisions of the local electrical industry construction and should comply with national electrical codes and standards.

Before installing the charging station, make sure you have read these instructions in this manual and fully understand its contents.

Appropriate protection is required when connecting to a main panel/switchboard. The tools and parts used as outlined in the section “Tools & parts required for installation”.

Prior to mounting, determine location of an acceptable mounting support. All charging station products must be anchored into a mounting support such as a 2” x 4” stud or a solid concrete wall, using mounting hardware that is appropriate for the surface on which you are mounting. DO NOT mount this unit directly to a stucco/drywall/wall board. If installing to a wood stud, use the lag screws provided and ensure the mounting plate is positioned on the centerline of the stud. If mounting onto a concrete, block, or brick wall, use an appropriate anchor for the type of wall on which you are installing the unit.

Prior to mounting, locate an available electrical source that can support the following Input Requirements for the Charging Station Per National Electric Code (NEC) requirements:

- 32A Maximum Output Setting (Default Factory Setting): a DEDICATED CIRCUIT rated for 40A; 208-240 VAC, 50-60 Hz, Single Phase must be used. Circuits rated greater than 40A may also be used.
- 24A Maximum Output Setting (Optional Setting): a DEDICATED CIRCUIT rated for 30A; 208-240 VAC, 50-60 Hz, Single Phase must be used. Note: Please refer to Adjusting Maximum Current Output on page 9.
- 16A Maximum Output Setting (Optional Setting): a DEDICATED CIRCUIT rated for 20A; 208-240 VAC, 50-60 Hz, Single Phase must be used. Note: Please refer to Adjusting Maximum Current Output on page 9.
- Additionally, a Double Pole Circuit Breaker of the circuit rating must be used. The Charging Unit has a built in GFCI protection; do not provide any additional GFCI protection upstream of the charging unit.
- The Charging Stations can connect (plug into) a Standard NEMA 6-50 Receptacle or the unit can be hardwired.



**CAUTION:** The service wiring in this section are specific to North America only. Before installing the Charging Station, identify the type of utility service connection available onsite. If you have unsure about the type of connection available at the service panel, contact your utility service provider.

## 2.1.2 Grounding Instructions

The charging station must be implemented equipment grounding through a permanent wiring system or an equipment grounding conductor. Use a wire with a dedicated grounding wire and a ring terminal and connected to the equipment ground terminal block for grounding.

## 2.1.3 Adjusting the Charging Station Maximum Current Output Setting (Optional)



### WARNING: RISK OF ELECTRIC SHOCK

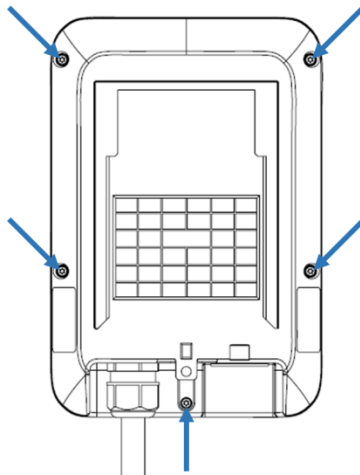
- Do not touch live electrical parts.
- Incorrect connections may cause electric shock.
- Disconnect the power supply to the charging station and verify no power is present before installing, adjusting, or repairing the charging station. Failure to do so may result in physical injury or damage to the power supply system and the charging station.
- Electrical Power **MUST** remain OFF and DISCONNECTED before setting or changing the DIP switch. A non-conductive object **MUST** be used to adjust the DIP switch settings, failure to do so may result in risk of electrical shock and damage to the equipment.

The EVOCHARGE EVSE charging station product features the ability to adjust the maximum Charging Station current output to allow the use of a 40A (or greater), 30A, or 20A Dedicated Circuit as follows:

- 40A (or greater) Circuit Rating: To support 32A (7.68 kW) maximum Charging Station output
- 30A Circuit Rating: To support 24A (5.76 kW) maximum Charging Station output
- 20A Circuit Rating: To support 16A (3.84 kW) maximum Charging Station output

The Charging Station Default Factory Maximum Current Output Setting is 32A (7.68 kW) for use with a 40A (or greater) Circuit Rating. To adjust the Maximum Current Output Setting when using a 30A or 20A Circuit Rating:

1. Place the Charging Station on a flat surface, front cover down with protection under the cover to avoid scratching damage to the cover.
2. Remove the Charging Station front cover by loosening the (5) Torx screws at the rear of the charging station.

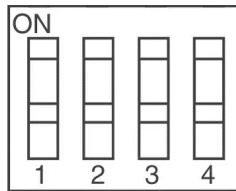


Five Torx screw locations to remove the Charging Station Cover



**CAUTION:** The LED board is attached to the charging station front cover and the charging station circuit board. Use care to not place force or strain on the wiring harness when the cover screws are removed. Failure to do so may result in damage to the charging station, which is not covered under warranty.

3. With the (5) Torx screws loosened, hold the front cover in place to avoid strain being placed on the LED board wiring harness and flip the charging station over on the flat surface so that the front cover is on top. Once this is completed, gently lift the charging station front cover and place to the right side of the charging station unit. Again, use care to not place force or strain on the wiring harness when the front cover screws are removed. Failure to do so may result in damage to the charging station.
4. With the front cover placed to the side, locate the DIP switch on the charging station circuit board. The DIP switch is a 4-position switch on the main circuit board, located directly to the left of the LED board wiring harness connector.



4-Position DIP Switch



**WARNING: RISK OF ELECTRIC SHOCK**

- Do not touch live electrical parts.
- Incorrect connections may cause electric shock.
- Disconnect the power supply to the charging station and verify no power is present before installing, adjusting, or repairing the charging station. Failure to do so may result in physical injury or damage to the power supply system and the charging station.
- Electrical Power **MUST** remain OFF and DISCONNECTED before setting or changing the DIP switch. A non-conductive object **MUST** be used to adjust the DIP switch settings, failure to do so may result in risk of electrical shock and damage to the equipment.

5. To Adjust the Maximum Current Output to either 24A or 16A, use a non-conductive object to adjust the DIP switch settings as follows:

Maximum Current Output	DIP 1	DIP 2	DIP 3	DIP 4	DIP Switch Setting (Picture)
32A Maximum Current Output (Factory Default Setting)	ON	OFF	ON	OFF	
24A Maximum Current Output	ON	OFF	OFF	ON	
16A Maximum Current Output	ON	OFF	OFF	OFF	

6. Once the DIP Switch Setting is adjusted, reassemble the charging station.
  - 6-1. Reinstall the LED wiring harness to the charging station circuit board and install the charging station front cover using the following torque force to secure the (5) Torx screws:

Screw	Torque	
M4	16 kgf.cm	13.88 lb-in

## 2.2 Tools & Parts Required for Installation

Table 2-1 Tools &amp; parts required for installation

Tool	Size	Source of Supply	Remark
Mounting Bracket	194 x 109 x 9 mm	Included with Product	For installing charging station to the wall/structure
Connector & Cable Holder	58 x 58 x 70 mm	Included with Product	To store the EV charging Plug and Cable
Mounting Fasteners x4	1/4" or M6	Included with Product	For installing the Mounting Bracket & Holder to the wall/structure
Socket	5/16" or 8mm	Commercially Available	For Mounting Fasteners
Torx Driver	T20	Commercially Available	For Charging Station Lock Screw and Cover Screws
Philips Screwdriver	PH3	Commercially Available	For Holder Installation and Optional Hardwire Install
Torque Wrench	6 ~ 50 kgf-cm	Commercially Available	For all fasteners
Wire, Copper	8 AWG	Commercially Available	UL1015 (recommended) for Input Wiring - Only Required for Optional Hardwire Connection
Heat Shrink Tube x3	For 8 AWG wire	Commercially Available	Only Required for Optional Hardwire Connection
Terminal x3	For 8 AWG wire	Commercially Available	Only Required for Optional Hardwire Connection
Conduit	1"	Commercially Available	Only Required for Optional Hardwire Connection

## 2.3 Install the Charging Station

1. Secure the charging station mounting bracket to the wall or other suitable structure with appropriate mounting screws. If installing to a wall, ensure the screws are anchored into a suitable wall stud.
2. Follow applicable accessibility requirements for the mounting position. The unit shall be mounted at a sufficient height from ground such that the height of the storage means for the coupling device is located between 24 inches (0.6 m) and 48 inches (1.2 m) from ground per NEC Article 625.
3. The mounting bracket has ten screw holes to support attachment to multiple mounting surfaces. For most installation, including attached the charging station to a single wall stud, only two screws will be used to attach the mounting bracket. In this case, the screws should pass (install) through the middle two vertical screw holes of the mounting bracket as shown in Figures 2-1 & 2-2.

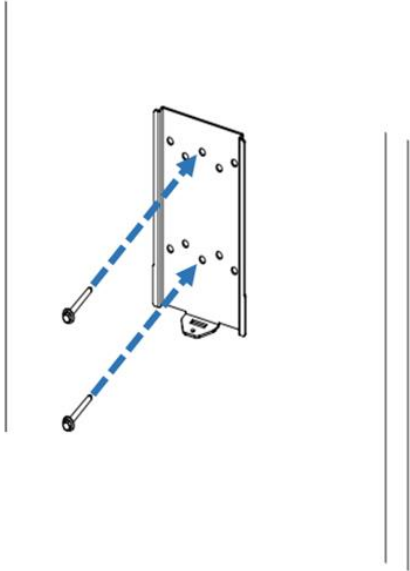


Figure 2-1 Installing the mounting bracket

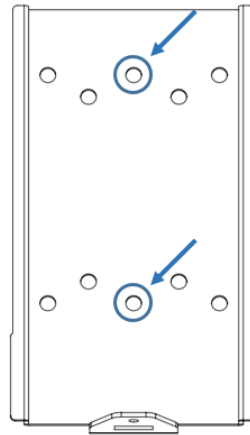


Figure 2-2 Screw holes of mounting bracket

Mounting Screw Recommendations:

- a. For finished walls supported by wood studs, use 1/4" or M6 tapping screws. (Supplied)
- b. For masonry walls, use M6 mechanical screws. (Commercially available)
- c. Use following torque force:

Screw	Torque	
M6	50 kgf.cm	43.4 lb-in
1/4"	50 kgf.cm	43.4 lb-in

- 4. As shown in Figures 2-3 & 2-4, mount the charging station onto the mounting bracket and secure the lock screw.
  - 3-1. Tighten the installed M4 screw and screw washer to fix charging station on mounting bracket.
  - 3-2. Use following torque force:

Screw	Torque	
M4	16 kgf.cm	13.88 lb-in

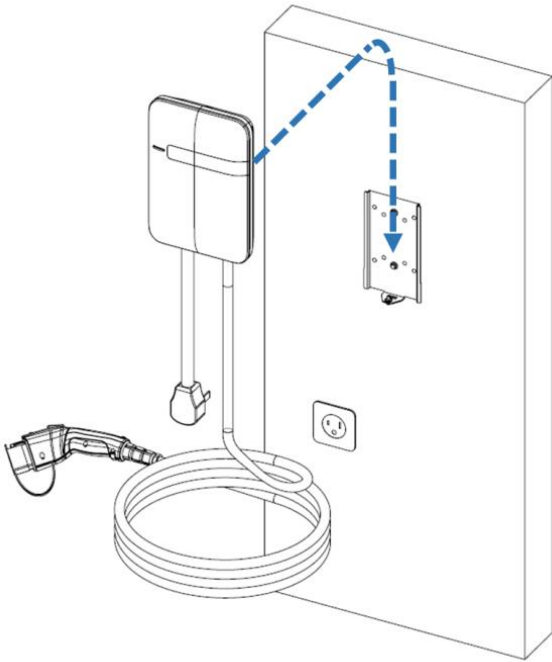


Figure 2-3 Charging station and mounting bracket

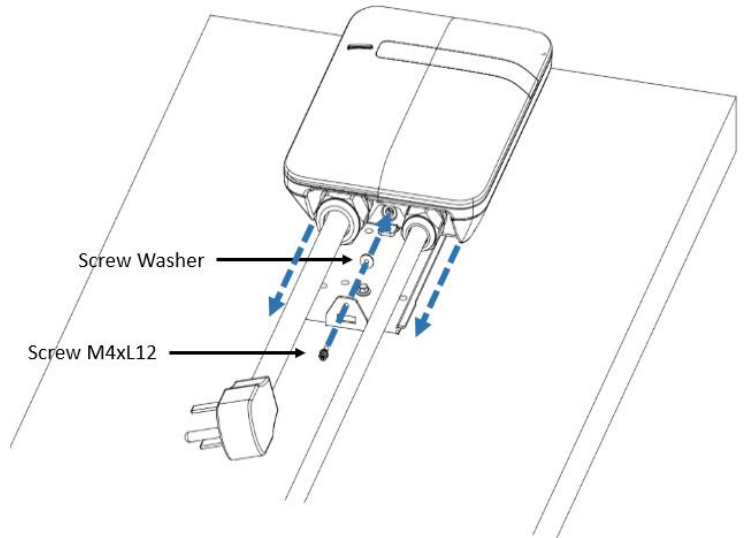


Figure 2-4 Screw locking position

5. For Plug-in (NEMA 6-50) models, Plug in the power cord to the NEMA 6-50 Wall Outlet/Receptacle. The NEMA outlet should be located no less than 20~26" from the ground or as defined by applicable state, local and national electrical codes and standards.

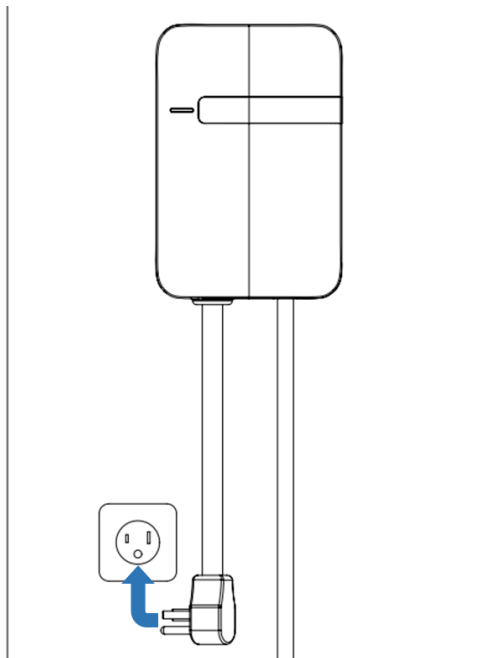


Figure 2-5 Plug in the power cord

## 2.4 Input Wiring Connection (Optional Hardwire Connection Only)

7. Choose the appropriate conduit in accordance with all applicable state, local and national electrical codes and standards.

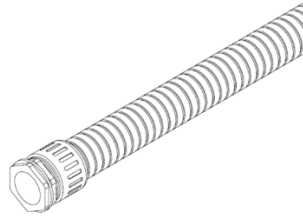


Figure 2-6 Conduit.

8. Using the appropriate tool, clamp the wire terminal to the copper wire. For non-insulated terminals, use heat shrink tube to cover the non-insulated portion of the terminal.



Figure 2-7 Copper terminal, heat shrink tube and copper wire.

9. Connecting the electrical wiring to the charging station.
  - 9-1. Place the Charging Station on a flat surface, front cover down with protection under the cover to avoid scratching damage to the cover.
  - 9-2. Remove the Charging Station front cover by loosening the (5) Torx screws at the rear of the charging station.

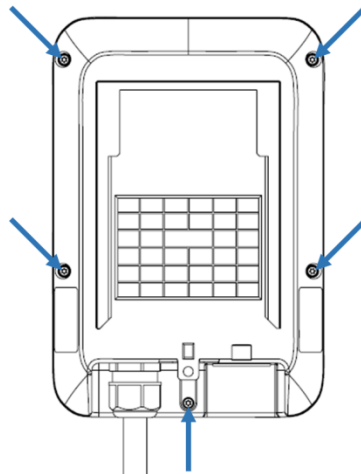


Figure 2-8 Five Torx screw locations to remove the Charging Station Cover



**CAUTION:** The LED board is attached to the charging station front cover and the charging station circuit board. Use care to not place force or strain on the wiring harness when the cover screws are removed. Failure to do so may result in damage to the charging station, which is not covered under warranty.

- 9-3. With the (5) Torx screws loosened, hold the front cover in place to avoid strain being placed on the LED board wiring harness and flip the charging station over on the flat surface so that the front cover is on top. Once this is completed, gently lift the charging station front cover and place to the right side of the charging

station unit. Again, use care to not place force or strain on the wiring harness when the front cover screws are removed. Failure to do so may result in damage to the charging station.

9-4. With the front cover placed to the side, remove the Terminal Block plastic cover and use Philips screwdriver to release terminal screws of the NEMA 6-50 Plug. Loosen the Strain Relief Fitting for the NEMA 6-50 Plug and Remove the Plug.

9-5. Insert the wire end passing through the conduit and insert them into the input wiring hole. (Use Red wire for L1, Black wire for L2, Green-yellow wire for G). Attach the copper wire on the corresponding terminal block. Use the following wire and torque force when connecting to input terminal block, using conductor type other than RHH, RHW and RHW-2 with outer covering.

Model	Terminal	Conductor	Screw	Rating	Torque
EVOCHARGE EVSE	L1, L2, G	8 AWG	M4	90C, copper wire	16 kgf.cm 13.88 lb-in

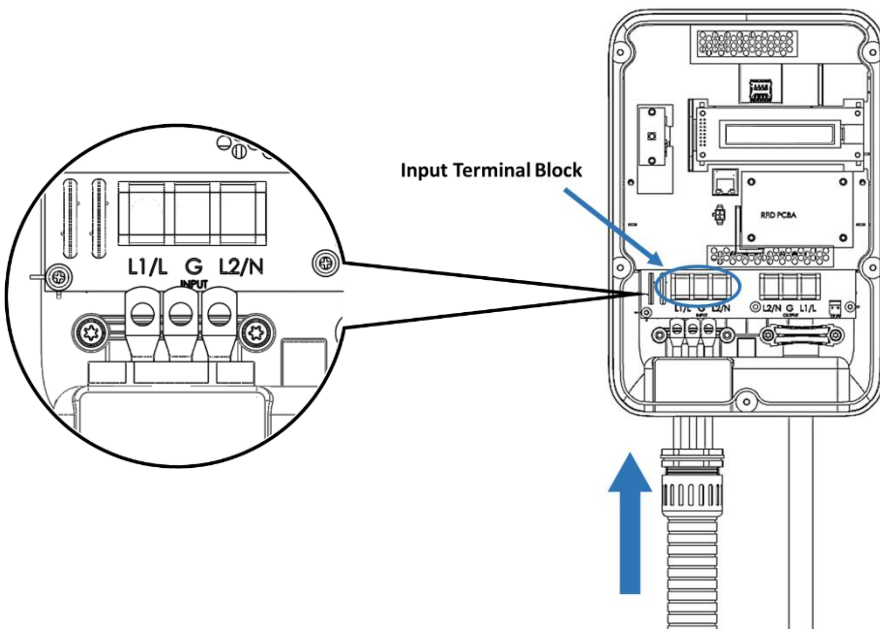


Figure 2-7 Input wiring



**CAUTION:** To reduce the risk of fire, connect only to a circuit provided with the appropriate amperes minimum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part I, C22.1.

Model	Current Setting	Circuit Rating Requirement
EVOCHARGE EVSE	32A	40A or greater
EVOCHARGE EVSE	24A	30A
EVOCHARGE EVSE	16A	20A

10- Once the input wiring and conduit are connected, reassemble the charging station.

10-1. Reinstall the LED wiring harness to the charging station circuit board and install the charging station front cover using the following torque force to secure the (5) Torx screws:

Screw	Torque
M4	16 kgf.cm 13.88 lb-in



## 2.5 Install the Plug and Cable Holder

1. Separate the holder from hook.

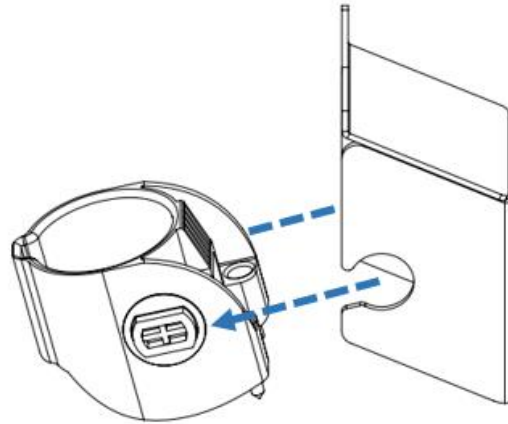


Figure 2-8 Separate the holder

2. The Holder can be installed at any location near the charging station. Once the holder installation location is determined, secure the holder bracket to the wall with appropriate screws x2 (1/4" or M6).

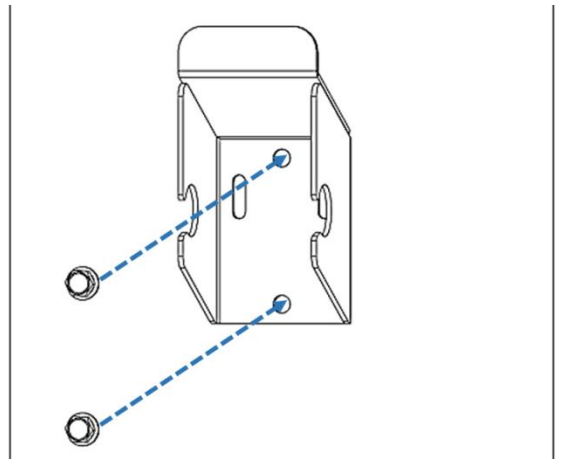


Figure 2-9 Secure the hook

3. Position the plastic holder insert face up and install into the holder bracket.

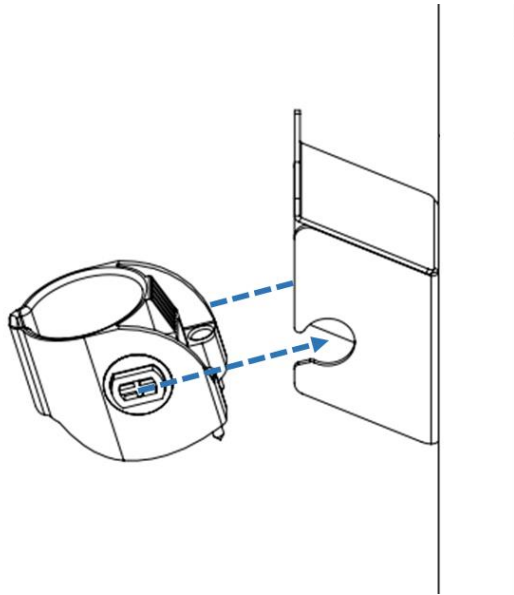


Figure 2-10 Secure the holder

4. Next, rotate the holder insert down.

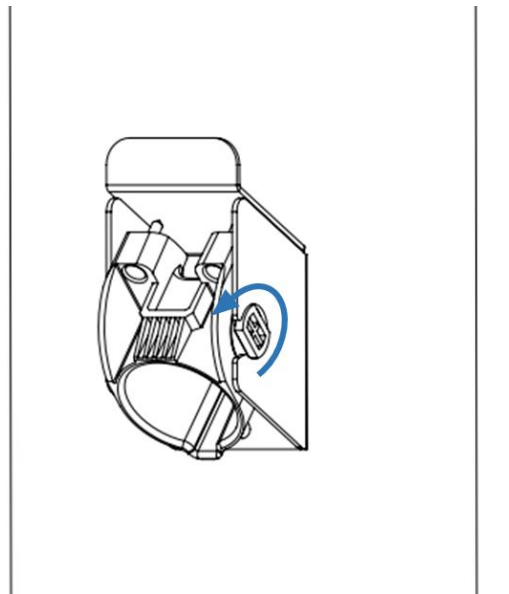


Figure 2-11 Rotate the holder

5. With the holder insert in the down position, tighten the (2) lock/set Philips screws located at the top of the plastic holder component until snug (do not overtighten). The screws ensure that the plastic holder component remains secured to the holder bracket.

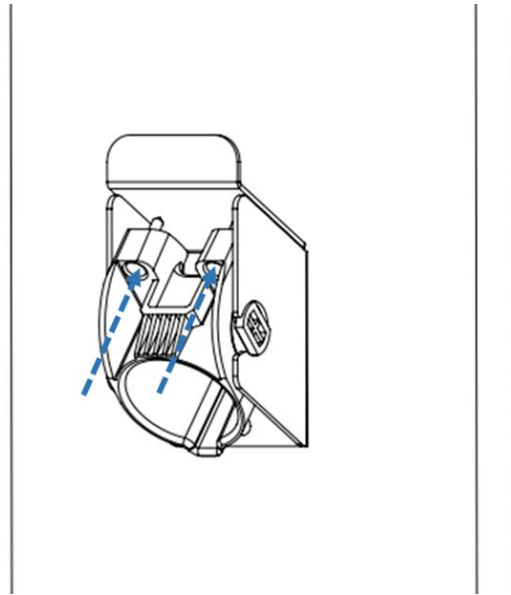


Figure 2-12 Lock screws

6. Insert EV charging connector into the holder.

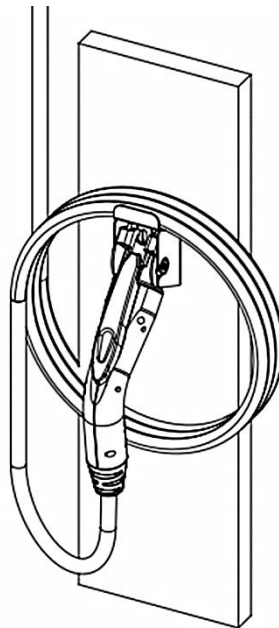


Figure 2-13 Insert EV Charging Connector into Holder

# 3 Operations

## 3.1 Charging Status Indicators

Table 3-1 Charging status indicators

LED Indicator	Description	Definition
	Not illuminated	Power Off
	Green Steady	Ready
	Green Flashing	Flashing green (Fast): Authorized, waiting for EV to initiate charge event. Flashing green (Slow): Suspend (Occupying)
	Blue Flashing	Flashing blue (Slow): Charging
	Red Steady	Unrecoverable Fault
	Red Flashing	Recoverable Fault
	Yellow Steady	Out of Service
	Yellow Flashing	Booting / Firmware Upgrade in process

\*Note: In the instance the “Red Steady” or “Red Flashing” Fault light remains, it is recommended that you:

- Unplug the charging Connector from your EV
- Turn off the power to the Charging Station by switching the upstream circuit breaker to the “OFF” position
- With the circuit breaker in the “OFF” position, wait 1-2 minutes and then switch the upstream circuit breaker back to the “ON” position
- Confirm the Fault light is no longer present. If the Fault light remains, please contact EVOCHARGE.

## 3.2 Charging your Electric Vehicle (EV)

### 3.2.1 Connect and Charge

1. Insert the charging Connector into the EV and ensure the connector is fully seated/locked in place.
2. Once complete, the charging session will commence.



Figure 3-1 Connect the charging plug to the EV

## 3.3 Stop Charging

1. Simply unplug the charging station connector from the EV at any time (once the connector button is depressed, the charging session terminates immediately).
2. Return the connector to the holder.

### 3.3.1 Self-Monitoring and Recovery (Auto Restart)

When a charging session is interrupted due to a temporary error condition, the charging station will automatically restart charging when the cause of the temporary error condition returns to normal. The status indicator lights remain flashing RED until the error condition is resolved.

- Temporary error conditions include: Over Current, Over Voltage, Under Voltage, and Over Temperature.
- For Over Current (OC) conditions: The charging session will stop while OC occurs. After recovery from OC for 30 seconds, the charging station will automatically restart charging for three times.
- When charging session stopped due to CCID trip, the charging station will try to restart after 15 minutes for 3 times.

### 3.3.2 Power Outage Recovery

When power resumes after an outage, the charging station restarts automatically with a delay ranging from 120 to 720 seconds. The delay is designed to avoid impacting the utility grid when multiple charging stations are in the same area attempting to resume charging simultaneously.

## 3.4 General Product Care and Use Information

The exterior of the charging station is designed to be waterproof and dust proof (NEMA 4 Outdoor Rated). However, periodic cleaning may be required, depending on local conditions. To ensure proper maintenance of the charging station, follow these guidelines:

- To avoid damaging the finish of the products, only use an automotive grade soft cleaning cloth and if required a mild soap and water mixture to remove accumulation of dirt and dust. Do not use cleaning solvents to clean any of the product components. Despite the water resistance of the enclosure, when cleaning it is preferred to not direct streams of water at the unit – clean with a water damp, automotive grade soft cleaning cloth.
- Make sure the charging connector is put back in the holster after charging to avoid damage.
- Ensure the power cable is stored on the charging station after use to avoid damage.
- If the power cable or the charging connector is damaged, turn off the charging station supply circuit breaker, do not use the charging station, and please contact EVOCHARGE Customer Support for replacement parts.
- When moving or lifting the unit, always grasp and carry by the charging station plastic body. Never attempt to lift, move, or carry the unit by any of the electrical cables. Improper handling may cause damage to the unit.

For Additional Products, Field Support and Cable Management solutions  
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