Model: Dual Output Pedestal Mount – 30A EVoReel EVSE
Model Numbers: With Basic EVSE: EV072-400-002A; With Intelligent iEVSE: EV072-410-002A;
Product Safety Certification: Retractable Reel: ETL and cETL Listed; EVSE: UL and cUL Listed
Description: SAE J1772 AC Level 2, 30A Continuous Rated EVSE with Retractable Reel
IMPORTANT
Read this manual thoroughly and make sure you understand the procedures before you attempt to install or operate this equipment. The purpose of this manual is to provide you with information necessary to safely install, operate and maintain this equipment. Keep this manual for future reference.

It is recommended that all EVoCharge products be installed by a qualified electrician, and installation must be in accordance with all applicable state, local and national electrical codes and standards. Failure to observe this precaution could result in death or severe injury.

Warranty: The EVoReel products are covered by a two-year limited warranty. For a detailed description of this warranty, contact EVoCharge:

Email: sales@evocharge.com
Telephone: (800) 930-9450
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SAVE THESE SAFETY INSTRUCTIONS

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

⚠️ Warning

- The Charging Station must be grounded through a permanent wiring system or an equipment grounding conductor.
- Do not install or use the Charging Station near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
- Turn off input power at the circuit breaker before installing or cleaning the Charging Station.
- Use the Charging Station only within the specified operating parameters.
- The Charging Station is designed only for vehicles that are compatible with the SAE J1772 AC Level 2 charging standard.
- Do not use the Charging Station if it is defective, appears cracked, frayed, broken or otherwise damaged, or fails to operate.
- Do not attempt to open, disassemble, repair, tamper with, or modify the Charging Station. The Charging Station is not user serviceable. Contact EVOCharge for any repairs.
- Do not use the Charging Station when either you, the vehicle, or the Charging Station is exposed to severe rain, snow, electrical storm or other severe weather.
- When transporting the Charging Station, handle with care and do not subject it to strong force, drag or step on the Charging Station.
- Do not touch the Charging Station end terminals with sharp metallic objects.
- Do not forcefully pull the charge cable or damage it with sharp objects.
- Do not insert foreign objects into any part of the Charging Station vehicle connector.
- Using with a worn or damaged AC outlet may cause burns or start a fire.
- If the AC wall plug feels hot while charging, unplug the unit and replace the AC outlet.
- To avoid a risk of fire or electric shock, do not use this device with an extension cord.
- Risk of explosion. This equipment has arcing or sparking parts that should not be exposed to flammable vapors. This equipment should be located at least 18 inches (460mm) above the floor.
- Risk of electric shock. Do not remove cover or attempt to open the enclosure of the charger unit. No user serviceable parts inside. Refer servicing to qualified service personnel.
- Unit will attempt to reset in fault conditions.
- This device is intended only for charging vehicles not requiring ventilation during charging.

-Continued on next page-
SAVE THESE SAFETY INSTRUCTIONS
This document contains important instructions and warnings that must be followed when installing and maintaining the Charging Station.

Caution

- Incorrect installation and testing of the Charging Station could potentially damage either the vehicle’s Battery and/or the Charging Station itself. Any resulting damage is excluded of the warranty for the Charging Station.
- Do not operate the Charging Station in temperatures outside its operating range of -22F (-30C) to 122F (50C).
- Ensure that the charge cable is positioned so it will not be stepped on, tripped over, or subjected to damage or stress.
- To reduce the risk of electrical shock, connect only to properly grounded outlets.
- If the plug provided does not fit the outlet, do not modify the plug, arrange for a qualified electrician to inspect the outlet.
- This equipment should be installed, adjusted, and serviced by qualified electrical personnel familiar with the construction and operation of this type of equipment and the hazards involved. Failure to observe this precaution could result in death or severe injury. The user is responsible for conforming to all local and national electrical codes and standards applicable in the jurisdiction in which this equipment is installed.
- Confirm with the local electrical requirements for the gauge, temperature rating, and type of wire material used for the overcurrent rating to support a dedicated circuit of 208/240 VAC 40A upstream of two-pole circuit breaker.
- Do not use this product if the EV Cable is frayed, has damaged insulation, or any other sign 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.
- Lockout all electrical source circuit feeding the charging unit in the open position before beginning wiring or terminations. Failure to follow the instructions could result in serious bodily injury or death.
- This unit is rated for indoor or outdoor installation. If this unit is mounted outdoors, the hardware for connecting the conduits to the unit must be rated for outdoor installation and be installed properly to maintain the proper NEMA rating on the unit.
- It is important that power wires are routed through an approved conduit or jacket from the circuit panel to the unit.

For more information on how to charge your specific vehicle, refer to the owners manual provided with your vehicle.
• All EVoCharge and EVoReel 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.

• Periodic cleaning may be required, depending on local conditions. To avoid damaging the finish of the products, only use an automotive grade soft cleaning cloth and 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.

• When moving or lifting the unit, always grasp the mounting bracket of the retractable reel. Never attempt to lift, move, or carry the unit by any of the electrical cables. Improper handling may cause damage to the unit.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EVSE Level</strong></td>
<td>AC Level 2</td>
</tr>
<tr>
<td>Max Current Output</td>
<td>30A</td>
</tr>
<tr>
<td>Voltage Rating</td>
<td>208-240VAC</td>
</tr>
<tr>
<td>Max Power Output</td>
<td>7.20 kW</td>
</tr>
<tr>
<td>Vehicle Connector</td>
<td>SAE J1772</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>Operating Temperature (EVSE)</td>
<td>-30°C to 50°C (-22°F to 122°F)</td>
</tr>
<tr>
<td>Operating Temperature (Retractable Reel)</td>
<td>-45°C to 50°C (-49°F to 122°F)</td>
</tr>
<tr>
<td>Charge Cord Length</td>
<td>9.14m (30.0ft)</td>
</tr>
<tr>
<td>Installation</td>
<td>Indoor/Outdoor Rated; per NEMA 3R</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wall, Ceiling, and Pedestal Options</td>
</tr>
<tr>
<td>CCID/Ground Fault</td>
<td>Automatic Supervisory Circuit: Auto-Test &amp; Reset</td>
</tr>
<tr>
<td>Charge Status Indicators</td>
<td>Power/Ready, Charging, Fault</td>
</tr>
<tr>
<td>Cable Management System</td>
<td>Retractable Reel</td>
</tr>
<tr>
<td>Standards &amp; Codes Compliance</td>
<td>SAE J1772, UL Subject 2594, UL Subject 355</td>
</tr>
<tr>
<td>Product Safety Certification:</td>
<td>Retractable Reel: ETL and cETL Listed; EVSE: UL and cUL Listed</td>
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</tbody>
</table>
FEATURES

Retractable Reel
All EVoReel Charging Stations provide added convenience to the user by utilizing a retractable reel for charge cable management. The retractable reel includes a vehicle charge cable up to 30 feet in length.

Indoor/Outdoor Rated Enclosures (NEMA 3R)
The EVoReel Charging Stations are rated for both indoor and outdoor charging and comply with NEMA 3R standards.

Note:
At this time, all Dual Pedestal Charging Stations utilize a common cable guide bracket as shown. This is an aesthetic item only and does not impact cable management or charger performance.
INSTALL PLANNING AND SERVICE WIRING

• Prior to mounting, determine location of an acceptable mounting support. The Wall or Ceiling mount unit 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 on 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 EVoReel Charging Station
  • Per National Electric Code (NEC) requirements, to support 30A continuous output current, a DEDICATED CIRCUIT rated for 40A; 208-240 VAC, 60 Hz, must be used. It is recommended to utilize a 40A upstream circuit breaker, located either in a panel board or load center.
  • The Charging Unit has a built in GFCI protection; do not provide any additional GFCI protection upstream of the charging unit.
  • The EVoReel Charging Stations provide the option to connect to either a NEMA 6-50 Receptacle the units can be hardwired.

Important: The service wiring in this section are specific to North America only.

Warning: Before installing the EVoReel 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.
INSTALLATION

STEP 1 – Verify Received Content

- **Charging Unit**
  - Quantity: (2)

- **Retractable Reel with Vehicle Connector**
  - Quantity: (2)

- **10mm Concrete Anchor Bolts**
  - Quantity: (6)

- **M8 Button Socket Cap Screws SS**
  - Quantity: (6)
  - (For use when mounting the reels to the pedestal)

- **Conduit Support Strap, 1” SS**
  - Quantity: (8)

- **Foundation Brackets**
  - Quantity: (6)

- **M3 Torx Screw**
  - Quantity: (1)
  - (For use to secure Charging Unit to Wall Mounting Bracket)
1. Remove all (6) Black Plastic Covers from the Foundation Brackets by utilize a Flat Head screw-driver by gently prying the plastic covers off at the location shown.
INSTALLATION
STEP 2 (cont’d) – Mount Pedestal to Concrete Surface

1. Confirm hole placement for (6) Anchor Bolt mounting holes using the dimensions shown.
2. Drill using a diameter of 10mm and depth of 83mm and securely fasten anchor bolts.
3. Suggested locations for conduit placement is shown.

Anchor Bolts

Install location for 1” Conduit (2-4 locations) (Note: Conduit not included with product)

WARNING: All mounting fasteners MUST be properly installed per fastener manufacturer recommendations and instructions. Please contact and use a professional installer if necessary, or consult a licensed contractor for acceptable anchoring options. Failure to properly anchor and mount the Pedestal, Retractable Reel, or Charging Unit may result in severe injury or death.
1. Once the anchor bolts are fastened, re-install the plastic cover on the foundation brackets by simply snapping them into position.
**INSTALLATION**

**STEP 3 – Install Retractable Reels**

1. Remove the (6) M8 button socket cap screws from the pedestal mount. These screws will be used to mount the retractable reels at the location shown. The LH reel will have the 90 elbow pointed up, while the RH reel will have the 90 degree elbow pointed down.

2. Mount the retractable reels to the pedestal base using (3) M8 button socket cap screws per reel.

**WARNING:** All mounting fasteners MUST be properly installed per fastener manufacturer recommendations and instructions. Please contact and use a professional installer if necessary, or consult a licensed contractor for acceptable anchoring options. Failure to properly anchor and mount the Pedestal, Retractable Reel, or Charging Unit may result in severe injury or death.
INSTALLATION

STEP 4 – Mount Charging Units

1. Slide charging unit hooks into mounting bracket openings.

2. Install the supplied M3x8mm Torx security screw to secure the charging station to the mount.

WARNING: All mounting fasteners MUST be properly installed per fastener manufacturer recommendations and instructions. Please contact and use a professional installer if necessary, or consult a licensed contractor for acceptable anchoring options. Failure to properly anchor and mount the Pedestal, Retractable Reel, or Charging Unit may result in severe injury or death.
1. Attach the conduit to the pedestal using the supplied conduit straps.
2. Note: The distance from the concrete to the conduit entry into the charging unit is approximately 50”. Confirm this dimension prior to assembling the conduit to the pedestal base.
INSTALLATION STEP 6 – Hardwire Connection to EVSE

30A EVoCharge EVSE Quick Installation Guide

Always read the user manual first. Optional hard wire install requires certified electrician. Regarding hard wire install: When releasing the AC power cable from terminal block, the pushing force on terminal block should not be greater than 30 lbf. After inserting the crimped ferrule into terminal block, inspect visually that the wire ferrule is inserted and pushed to the END of ferrule. Next, try to pull the inserted wire and make sure that wire is properly secured within the terminal block.

1. Strip AC power cable outer sleeve to 7.87 inches (for hard wiring only)

2. Feed AC power cable thru left cable gland

3. Make sure each wire is properly secured within its corresponding terminal block.

4. Relocate bottom cover and tighten screws.

**Scenario A**: For solid-core wire, wire-ferrules are not required.

**Scenario B**: For stranded wire, the following ferrule must be crimped on the wire. The cross section of the crimped ferrule is square.


<table>
<thead>
<tr>
<th>L (inches)</th>
<th>D (inches)</th>
<th>C (inches)</th>
<th>W (inches)</th>
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<tbody>
<tr>
<td>0.787</td>
<td>0.193</td>
<td>0.177</td>
<td>0.226</td>
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<tr>
<td>20 (mm)</td>
<td>4.900 (mm)</td>
<td>4.5 (mm)</td>
<td>5.8 (mm)</td>
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</tbody>
</table>
INSTALLATION

STEP 7 – Adjust Vehicle Connector Position (if required)

1. Adjust retractable reel ball stop position by using a screwdriver to loosen both fasteners.

2. Adjust the ball stop to a position that enables a convenient vehicle connector rest position.

3. Fasten and secure the ball stop to vehicle charge cable.
1. Depending on the cable stop placement from installation step 5, the retraction rate of the reel may need adjustment. This can be accomplished by manually adjusting the number of charge cable wraps around the reel. Add additional charge cable wraps to the reel to increase the retraction rate. Remove charge cable wraps from the reel to reduce the retraction rate.
OPERATION – Enable Charging

IMPORTANT: Once the charging unit is connected to supply-power, turn-on the charging unit by placing the toggle switch towards the front of the charging unit. The toggle switch is located at the bottom of the charging unit.

1. Ready Indicator (Green Color) is present once the charging unit is ready to initiate vehicle charging.
2. Retract charge cable from retractable reel and install charge connector into vehicle.
3. Charging Indicator (Blue Color) will begin FLASHING once the vehicle is charging and discontinues once the vehicle is fully charged.

WARNING: Extend and retract the charge cable by applying force to the cable only; do not apply force to the vehicle connector.
OPERATION – Disable Charging

1. Remove charge connector from vehicle and pull slightly on the charge cable to activate the retractable reel and place charge connector in its stow position.

2. Ready Indicator (Green Color) is present and the charging unit is ready for the next charge cycle.

WARNING: When retracting the charge cable into its stowed position, it is recommended to control the speed of the cable and connector retraction by keeping tension on the cable and guiding onto the retractable reel.

Extend and retract the charge cable by applying force to the cable only; do not apply force to the vehicle connector.

IMPORTANT: If a Fault Indicator (Red Color) is present with the charge connector removed from the vehicle, reset the charging unit by manually turning-off the toggle switch and then turning the toggle switch back-on. The ON position is with the toggle switch positioned toward the front of the charging unit.

Contact a qualified electrical personnel if resetting the charging unit does not clear the fault.