Model: 30A EVoReel EVSE
Model Numbers: EV072-100-001A, 002A, 003A, 011A, 012A, 013A
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 server 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.
IMPORTANT REFERENCE INFORMATION

• 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

| Part Numbers | EV072-100-002A: Non-Networked EVSE, 3 ft. Interconnect, 30 ft. Charge Cable  
EV072-100-001A: Non-Networked EVSE, 10 ft. Interconnect, 30 ft. Charge Cable  
EV072-100-003A: Non-Networked EVSE, 20 ft. Interconnect, 30 ft. Charge Cable |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>EVSE Type</td>
<td>Standard: Non-Networked - Simple operation – plug-in to your EV to begin charging</td>
</tr>
<tr>
<td>Connector / EVSE Level</td>
<td>SAE J1772; AC Level 2</td>
</tr>
<tr>
<td>Max Output Rating</td>
<td>30A; 7.2 kW</td>
</tr>
<tr>
<td>Electrical Circuit / Input Power Requirements</td>
<td>208-240VAC, 50/60 Hz. Circuit Rating Requirement: 40 Amperes Dedicated; Branch Breaker: 40 Ampere double pole; Circuit Conductors: Line 1, Line 2, Earth Ground</td>
</tr>
<tr>
<td>Charge Cable Length</td>
<td>30 ft. (9.14m)</td>
</tr>
<tr>
<td>Interconnect Length</td>
<td>3, 10, 20 ft. (0.92, 3.05, 6.10m)</td>
</tr>
<tr>
<td>Color</td>
<td>Black (Standard); White (Optional)</td>
</tr>
<tr>
<td>Installation Ratings</td>
<td>Indoor/Outdoor Rated; Reel: NEMA 4 ; EVSE: NEMA 3R</td>
</tr>
</tbody>
</table>
| Operating Temperature & Humidity Ratings | EVSE: -30°C to 50°C (-22°F to 122°F); Retractable Reel: -45°C to 50°C (-49°F to 122°F)  
95% RH non-condensing |
| Mounting | Designed for Single Stud Wall, Ceiling (Overhead) & Pedestal Installation |
| Overall Weight & Dimensions | Total Product Weight: 55 lbs. (25 kg)  
EVoReel: 13.8 x 12.0 x 9.2 inches (35.1 x 30.5 x 23.3 cm)  
EVSE: 15.0 x 10.6 x 4.7 inches (38.1 x 26.9 x 12.0 cm) |
| Charge Status Indicators | Power/Ready, Charging, Fault |
| Cable Management System | EVoReel Retractable Reel |
| Standards | SAE J1772, UL 2594, UL 355 |
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.

Versatile Mounting
The retractable reel mounting bracket allows for mounting on the wall, ceiling, or pedestal.
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

**Interconnect Support Clamp**
Quantity: (4)
(For use to support Interconnect cable following installation)

**3/8” Lag Screws**
Quantity: (3)
(For use when mounting reel to wall/ceiling wooden wall stud)

**1/4” Lag Screws**
Quantity: (2)
(For use when mounting Charging Unit to concrete wall)

**#12 Lag Screws**
Quantity: (2)
(For use when mounting Charging Unit to wood wall stud)

**M3 Torx Screw**
Quantity: (1)
(For use to secure Charging Unit to Wall Mounting Bracket)
1. Prior to mounting retractable reel, determine the preferred position of the roller guide arm. The roller guide arm can be adjusted into (12) different locations based on your installation method. The roller guide arm can be adjusted by removing the 5/16 hex head screw and lock washer. The guide position should be selected and secured prior to making any electrical connections.
1. Determine preferred height and orientation of retractable reel. It is recommended to install retractable reel at the maximum height based on interconnect cable length. The retractable reel can be mounted using mounting option “A” or “B”.

Mounting Option “A”

Mounting Option “B”
INSTALLATION

STEP 4 – Install Retractable Reel

1. Locate a wall stud and use a 1/4” bit to drill a pilot hole for each mounting hole. The (3) mounting holes are positioned 1.625” away from each other.

2. Prepare mounting hole by Fastening lag screw into top of each mounting hole until lag screw enters partially into wall stud.

3. Remove all lag screws from mounting holes.

**WARNING**: All lag screws MUST be used to install the charging unit to the vertical wall stud. Each lag screw MUST be securely fastened to THE CENTER of the wall studs. Please contact and use a professional installer if necessary, or consult a licensed contractor for the best anchoring options.
INSTALLATION

STEP 5 – Install Retractable Reel

1. Place reel mounting bracket over mounting holes and fasten lag screw.
2. Continue fastening lag screws into each mounting hole.

WARNING: All lag screws MUST be used to install the charging unit to the vertical wall stud. Each lag screw MUST be securely fastened to THE CENTER of the wall studs. Please contact and use a professional installer if necessary, or consult a licensed contractor for the best anchoring options.
STEP 6 – Adjust Vehicle Connector Position

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.
STEP 7 – Adjust Reel Retraction Rate (if required)

1. Depending on the cable stop placement from installation step 6, 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.
1. Drill two holes in the wall, at a vertical distance of 5.50 inches from each other.
   - For wooden walls, use the 3/16” wood drill bit.
   - For concrete walls, use a 1/8” masonry drill bit.
INSTALLATION

STEP 8 – Mounting the Charging Unit

2. Secure the wall mount plate to the wall.
   - For wooden walls, screw in the two #12x2” screws with a 11/32” hex bit driver.
   - For concrete walls, screw in the two 1/4x2” screws with a 5/16” hex bit driver.
STEP 8 – Mounting the Charging Unit

3. Pay attention to the location of the mounting brackets on the back of the Charger.
4. Secure the Charger to the mounting plate, as shown below (1) and screw in the M3 Torx screw using the T10 screwdriver to lock the charger in place (2) and help prevent theft or accidental dislodgement.
INSTALLATION
STEP 8 – Mounting the Charging Unit

5. The Charger is now mounted.
5. Once correctly mounted, plug into a NEMA 6-50 outlet.
Always read the user manual first. Optional hard wire install requires certified electrican. 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.

Step-by-Step Instructions for Optional Hard Wiring - AC Power Cable

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.

<table>
<thead>
<tr>
<th>L (inches)</th>
<th>D (inches)</th>
<th>C (inches)</th>
<th>W (inches)</th>
</tr>
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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</td>
<td>4.5 (mm)</td>
<td>5.8 (mm)</td>
</tr>
</tbody>
</table>
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. To ENABLE charging, Ready Indicator (Green Color) is present once the charging unit is ready to initiate vehicle charging.
2. Retract charge cable to the desired length and install charge connector into vehicle charge port.
3. Charging Indicator (Blue Color) will begin FLASHING once the vehicle is charging and illuminates SOLID once the vehicle is fully charged.

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

NOTE: A red warning tag is applied to the charge cable at the maximum recommended cable extension length.
OPERATION – Disable Charging

1. Remove charge connector from vehicle and pull slightly on the charge cable to retract the cable onto the reel and place charge connector in its stowed position.

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

CAUTION: 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.

CAUTION: Extend and retract the charge cable by applying force to the cable only; do not apply force to the vehicle connector.
OPERATION – FAULT LIGHT INDICATOR

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.

Note: Contact a qualified electrical personnel or EVoCharge if resetting the charging unit does not clear the Fault LED indicator.