



Electric Vehicle Charging Station

Model EVC80-310-001

Installation Guide

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Chapter 1. Before You Start

1.1 Important Safety Instructions

- Read this manual thoroughly and make sure you understand the procedures before you attempt to install or operate this equipment.
- This product is intended for charging vehicles only.
- This product shall be installed, adjusted, and serviced by qualified electrical personnel.
- Isolate the product from any electrical source before wiring or servicing it. Failure to follow this may lead to severe bodily injury or death.
- This product shall be installed by at least two qualified electricians, and installation must be in accordance with all applicable local and national electrical codes and standards. Failure to observe this warning could result in death or severe injury.
- Do not use extension cord for charging.



1.2 Electric Shock Prevention Measures

- Do not expose the live part of this product and its cables.
- This product must be grounded through a permanent wiring system or an equipment grounding conductor.
- Install circuit breakers to reduce the severity of electric shock accidents.
- Limit the authorized personnel responsible for handling switches on electrical appliances.
- Do not touch this product with wet hands.
- Be sure to use standard regulation fuses for switches and do not use copper/steel wire.
- Do not use faulty or malfunctioning cables or breakers on this product.



1.3 Electric Fire Prevention Measures

- The cables and wires used to install this product must satisfy local laws and regulations.
- Do not share the power source of this product with other appliances.
- Keep combustible material away from the installation area of this product.
- Keep sufficient distance from any other the heat source.
- Take care not to damage or overheat the wire coating of this product and its connections.
- Install an automatic power off device in case of abnormal rises in temperature within this product.



1.4 Warnings

- The instructions and warnings contained in this manual must be followed when installing, using, and maintaining this product.
- This device should be supervised when used around children.
- Do not put fingers into the electric vehicle connector.
- Do not use this product if the flexible power cord or EV cable are frayed, have 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.
- Do not install or use the product in any environment full of flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
- Isolate the product from any power source before installing or servicing it.
- Do not use the product if it is found defective, cracked, frayed, broken or otherwise damaged, or fails to operate.
- Do not attempt to open, disassemble, repair, tamper with, or modify the product. The product is not user serviceable.
- Do not use the product when either you, the vehicle, or the product is exposed to severe rain, snow, electrical storm or other severe weather conditions.
- When transporting the product, handle with care. Do not drag it or step on it or subject it to any strong force.

-
- Do not touch the product's terminals with sharp metallic objects.
 - Do not forcefully pull the charge cable.
 - Do not insert foreign objects into any part of the product.



1.5 Cautions

- Incorrect installation of, and testing on, this product could potentially damage either the vehicle's battery and/or this product. Any resulting damage hereof invalidates the warranty for the product.
- Operate the product in the temperature range specified in the specification.
- Ensure that the charge cable is positioned so it will not be stepped on, tripped over, or subjected to damage or stress.
- This product shall be connected to and form a dedicated circuit with a proper circuit breaker that satisfies the local electrical requirements.
- Do not use this product if the EV Cable shows any sign of damaged insulation.
- Do not use this product if the enclosure or the EV connector shows any indication of damage.
- The power wires connecting to this product from the circuit panel shall be routed through an approved conduit or jacket.

1.6 FCC Declaration of Conformity - Class B

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case users will be required to correct the interference at their own expense.

Connections between the Harmonic equipment and other equipment must be made in a manner that is consistent with maintaining compliance with FCC radio frequency emission

limits. Modifications to this equipment not expressly approved by Harmonic may void the authority granted to the user by the FCC to operate this equipment and you may be required to correct any interference to radio or television communications at your own expense.



1.7 Return for Service

In the unlikely event you encounter operational or other problems with the charger that cannot easily be fixed, contact your local dealer. If the problem requires the product to be returned for service, please follow the dealer's instructions for return of the product.



1.8 Save These Instructions

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.

Chapter 2. Types of Installations

2.1 Residential Installations

The most common source of AC power for residential use is single-phase 120/240 (also referred to as Split Phase 240).

This configuration consists of 2 voltage legs that are 180 degrees apart. The voltage between the two legs (called phase to phase or line to line) is 240V and the phase to neutral voltage is 120V. Some list the phase-to-phase voltage in which case this is referred to as 240/120 single phase.

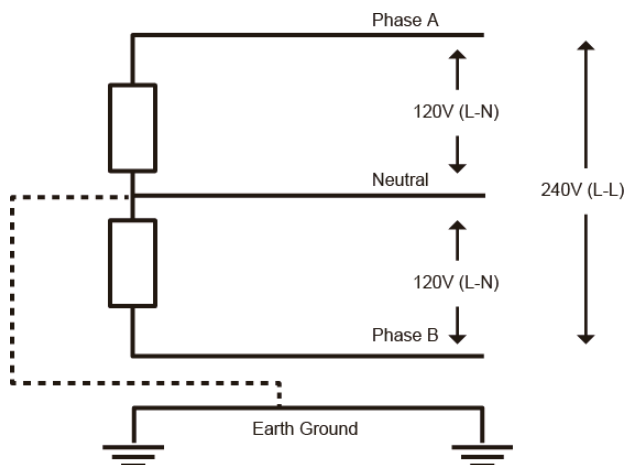


Figure 2-1. Single-Phase 120V/240V Installations Using 240V (L-L)

2.2 Commercial Installations

The most common source of AC power for light commercial environments is 208/120 WYE.

In this configuration, the line to line (L-L) voltage is 208VAC and the line to neutral (L-N) voltage is 120VAC. This may also be designated as 120/208VAC, 120/208 WYE, 208/120 WYE, 4-wire WYE or 120/208Y.

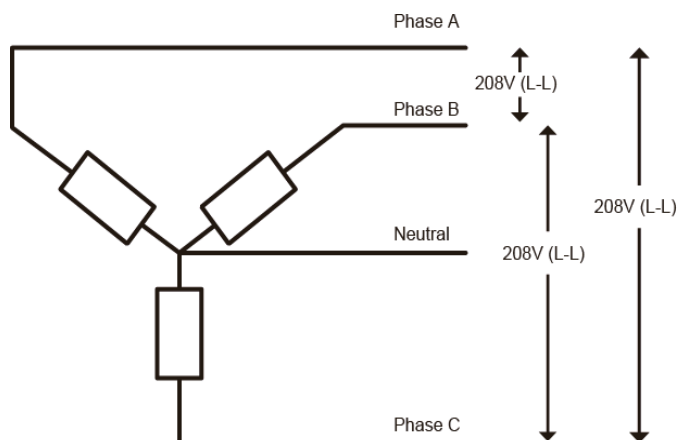


Figure 2-2. Three-Phase WYE Installations Using Any L-L

2.3 Three-Phase 240V High Leg Delta Configuration

Three phase delta configuration is supported only with a grounded center-tapped leg, and only using the legs on each side of the center tap.



Warning: Do not use high leg and make sure that 120V is measured from L1/L2 to GND.

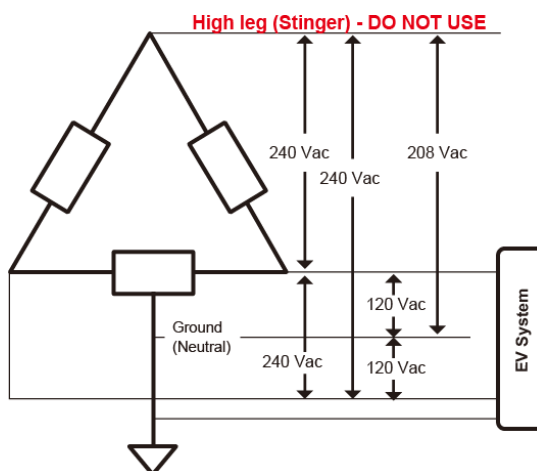


Figure 2-3. Three-Phase 240V High Leg Delta Installation

2.4 Connecting to the Input Terminal Block

When connecting to the input terminal block, torque lugs (L1, L2, G) to 65 lb-in.

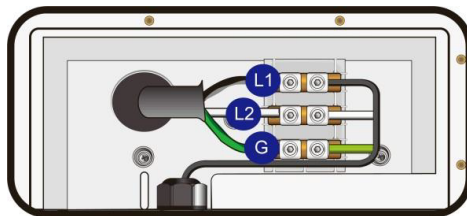
If the cable comes in from the back, the cable will enter straight into the cable terminal cabinet. Secure the three wires to the corresponding terminals as shown in the following figure.



Note: The cable hole must be sealed properly to keep the terminal cabinet watertight.



Caution: To reduce the risk of fire, connect only to a circuit with appropriately sized conductors and branch circuit.



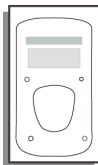



Chapter 3. Installation Instructions

3.1 Unpacking

1. Verify you received the components in Table 3-1.





Table 3-1. Received Components

Description	Figure
EV-charger with the charging cable attached	
Mounting screw x 4 (with washer) (M8 x 1.25 x 40mm x D18 x H1 .2)	
Mounting template	
This manual	

2. Keep the packaging material for possible future transportation or storage.

3. In addition to the contents supplied with the charging station, the user-supplied items in Table 3-2 are required to perform the installation. All of these items are commercially available.

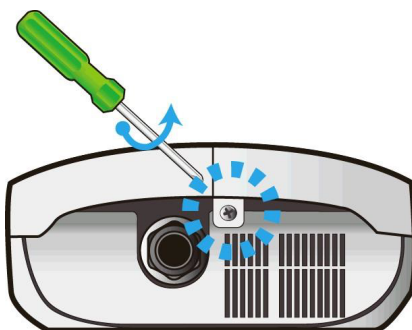
Table 3-2. User-Supplied Tools and Parts

Description	Figure
Phillips screwdriver (PH#4)	
Torx screwdriver x2 (T20 & T45)	
Hole saw cutter (2")	
Allen wrench (4 mm)	

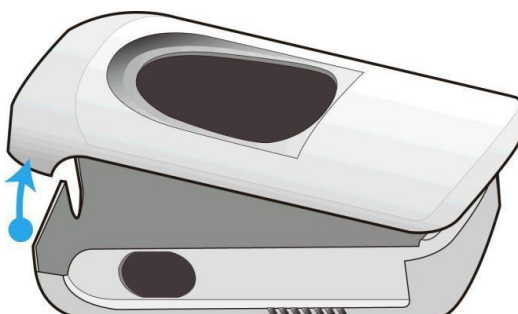
3.2 Preparing for Installation

3.2.1 Opening the Front Cover

1. Locate the fixing torx screw on the bottom side of the cover. Using a T20 torx screwdriver, unscrew the fixing screw of the cover.



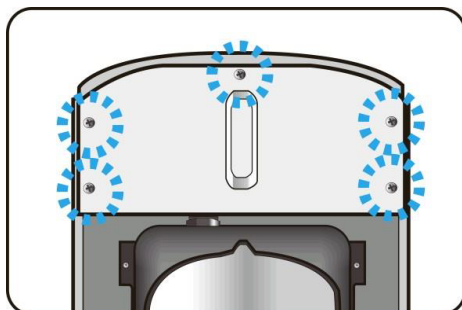
2. Hold and lift the cover from the bottom end.



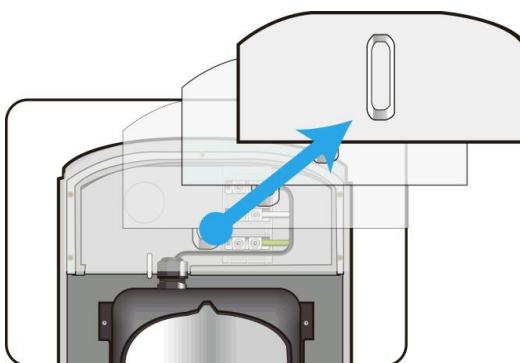
3. Set aside the screw and cover in a safe place.

3.2.2 Accessing the Cable Terminal Cabinet

1. Locate the five fixing screws of the cover as shown below. Use an M4 Philips screwdriver to unscrew them.



2. Remove the cabinet cover.



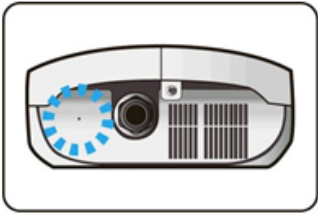
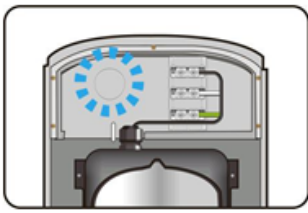
3. Set aside the five screws and the cover together in a safe place.

3.2.3 Drilling the Input Cable Hole

There are two ways to insert the input cables:

- From the back
- From the bottom

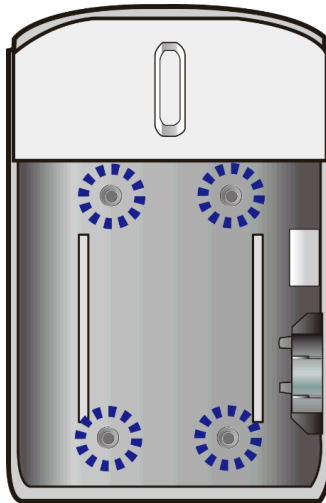
Choose either method and drill the corresponding hole, as shown in the following figures.

From the bottom	From the top back
	
Hole diameter: 2-inch (5 cm)	Hole diameter: 2-inch (5 cm)

3.2.4 Drilling the Mounting Holes

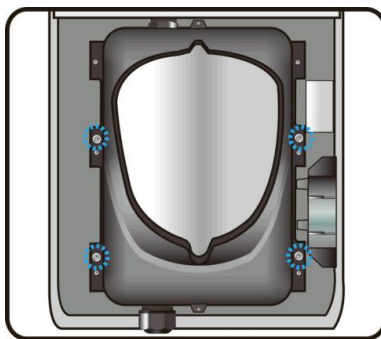
Drill four holes to mount your EV Charger to the wall (see the following figure).

- Drill the holes to fit M8 mounting screws.
- Drill the holes at corresponding locations on the wall or backplane.

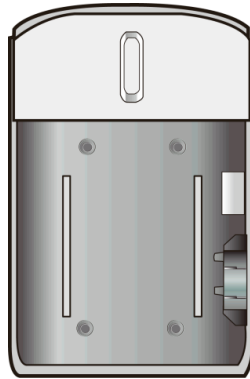


To access to the back panel from inside:

1. Using an M4 Philips screwdriver, unscrew the four Philips screws to release the electrical box.



-
2. Either remove the box or flip it aside to access the back panel.

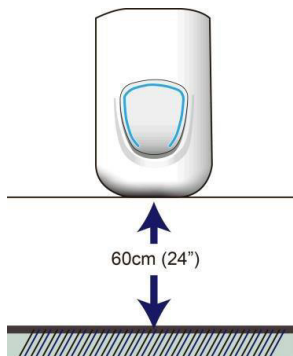


3.3 Installing the Charging Station

The following procedure may vary from the actual installation and is subject to proper adjustment, depending on the circumstances, local building codes, or state regulations.

3.3.1 Mounting the Unit on a Wall

1. Before you start, make sure:
 - You drilled the input cable hole and the mounting holes on your charger (see sections 3.2.3 and 3.2.4).
 - The installation height is at least 60 cm as shown in the following figure.

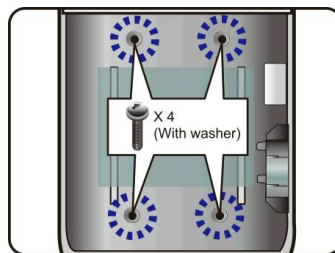


-
2. Use the mounting layout template provided to drill the holes on the wall:
 - a. Tape the layout template on the wall to the position where you plan to install the charger.
 - b. Mark the mounting holes (which are marked as circles on the template) onto the wall.
 - c. Remove the template.
 - d. Drill the four mounting holes of size M8.



Warning: If you hit something metallic when drilling, stop immediately and contact an electrician.

3. Mount and screw the charger to the wall, as shown in the following figure.



4. Seal the screws by applying some water-resistant protection.

3.3.2 Selecting the Operating Current

The EV charger contains a programmable maximum output current setting that allows the charger to operate as a 10A – 80A charger. The installer must determine the intended output power setting in the installation planning.

Current selection is performed by adjusting the rotary switch (see section 3.5)



Note: This device is considered to be a “continuous load” device. As such, the branch circuit must be rated for 125% of the operating current.

Table 3-3 shows the available options and required (125%) breaker sizes.

Table 3-3. Current Selection and Branch Circuit Rating

Current Selection Switch Setting	Maximum Output Current	Required Branch Circuit and Breaker Rating
0	10A	15A
1	12A	15A
2	16A	20A
3	20A	25A
4	24A	30A
5	32A	40A
6	40A	50A
7	48A	60A
8	63A	80A
9	80A	100A

3.3.3 Cable Connection and Wiring

Input wiring should be sized according to all applicable local and national requirements, and consider factors such as cable length and ambient temperature.

Input wiring must be sized according to the required branch circuit rating, as determined from Table 3-3. Table 3-4 shows the recommend minimum conductor sizes for connection from the main panel based on a 30° C ambient from NEC Table 310.16.

Table 3-4. Minimum Required Conductor Size

Branch Circuit and Breaker Rating	75°C Copper Types RHW, THHW, THW, THWN, XHHW, USE, ZW	90°C Copper Types TBS, SA, SIS, FEP, FEPB, MI, RHH, RHW-2, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2
15A	14 AWG	14 AWG
20A	12 AWG	12 AWG
25A	12 AWG	12 AWG
30A	10 AWG	10 AWG
40A	8 AWG	8 AWG
50A	8 AWG	8 AWG
60A	6 AWG	6 AWG
80A	4 AWG	4 AWG
100A	2 AWG	2 AWG

Observe the following guidelines:

- Table 3-4 provides a reference for the minimum conductor size for the circuit from the panel. The required conductor size must also consider installation factors such as temperature correction and length of cable.
- For connection to terminal block, a minimum wire size of 8AWG and maximum wire size of 1/0 are supported. This must be considered by the installer when selecting conductor size as the table above contains sizes below 8AWG.
- Do not use GFCI breakers with this product. This product contains integrated Ground Fault protection.

Use the following wire and torque force when connecting to the input terminal block, using conductor type other than RHH, RHW, and RHW-2 with outer covering.

Table 3-5. Minimum Required Conductor Size

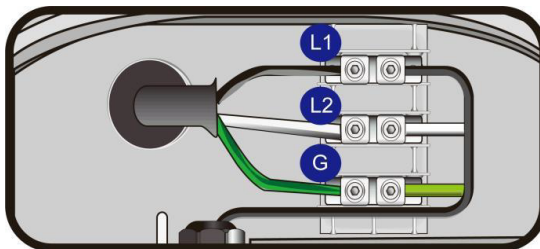
Terminal	Conductor	Rating	Torque - lb-in (N-m)
L1, L2, G	1/0-8AWG	90C, copper wire	65 (8.5)

3.3.3.1 Cable Comes in from the Back

If the cable comes in from the back, the cable will enter straight into the cable terminal cabinet. Secure the three wires to the corresponding terminals, as shown in the following figure.



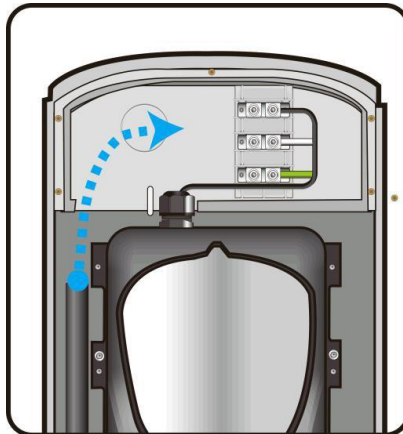
Note: The cable hole must be sealed properly to keep the terminal cabinet watertight.



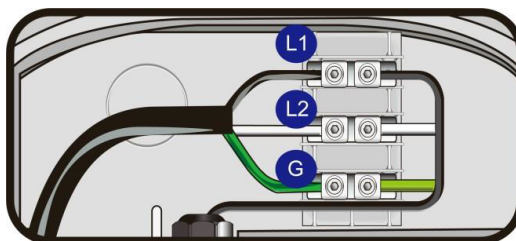
3.3.3.2 Cable Comes in from the Bottom

If the cable comes in from the bottom:

1. Insert the power cable from the hole you drilled for it, and then pull it into the terminal cabinet.



2. Secure the three wires in the order shown in the following figure.



3. If necessary, apply proper cable ties or clamps to secure the cables and to relieve cable strain added on the terminals.

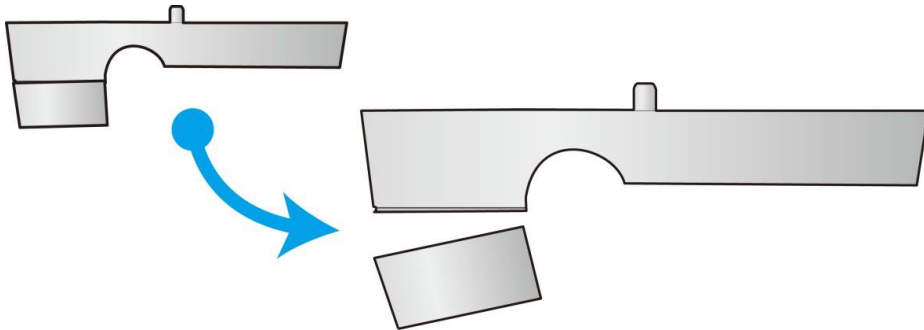


Caution: To reduce the risk of fire, connect only to a circuit with appropriately sized conductors as recommended in “Table 3-4 – Minimum Required Conductor Size,” and using branch circuit rating as defined in “Table 3-3 – Current Selection and Branch Circuit Rating.”

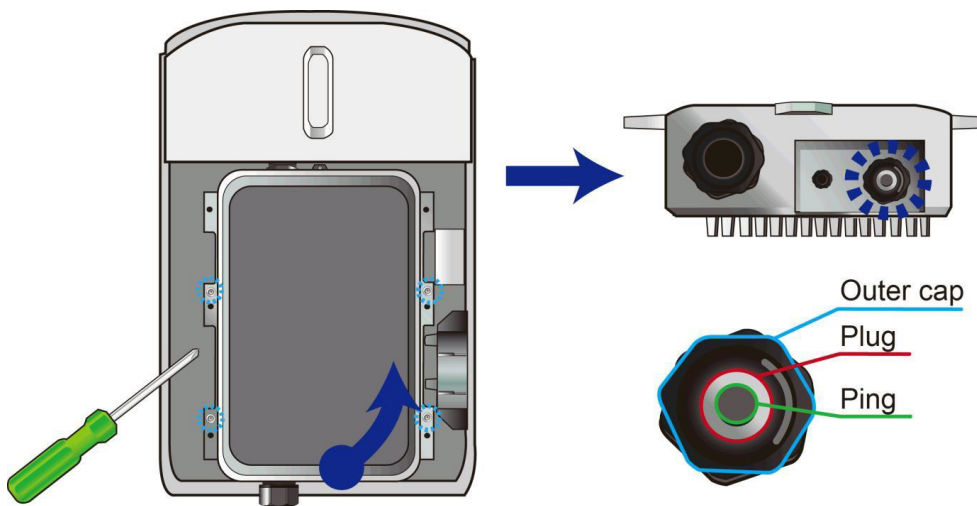
3.3.3.3 Re-installing the Cabinet Cover

If the cable comes in from the back, just put the cover back on and screw it closed.

If the cable comes in from the bottom, cut the plate off the cover, as shown in the following figure, before you replace the cover.



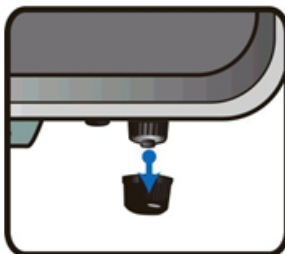
4. Using an M4 Philips screwdriver, unscrew the four Philips screws, as shown in the following figure, to release the electrical box. Raise the bottom side of the box and you can find the cable gland.



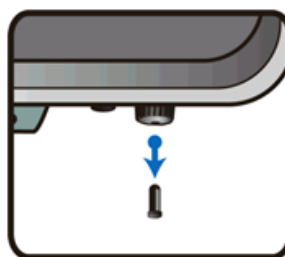
3.3.3.4 Inserting an RJ-45 Cable (Optional)

If necessary, insert an RJ-45 cable using the following instructions.

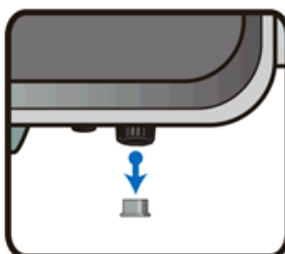
1. Unscrew the outer cap.



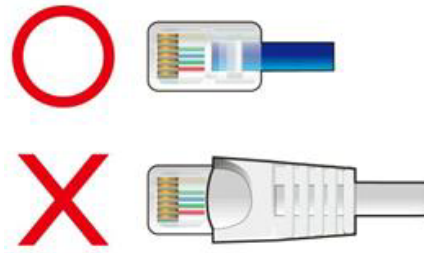
2. Pull out the pin.



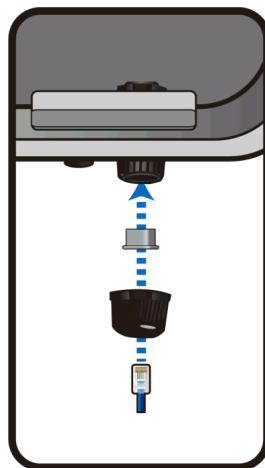
3. Pull out the plug.



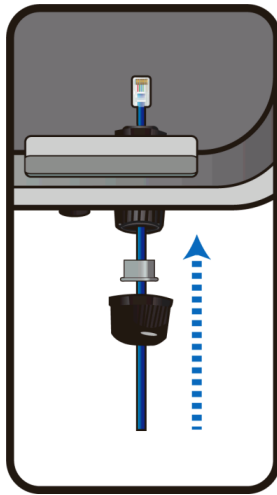
-
4. Make sure at least one end of your RJ-45 cable has the RJ-45 plug with no cable boot.



5. Thread the RJ45 head through the outer cap, plug, and gland.



6. Make sure the plug has been inserted firmly into the cable gland.



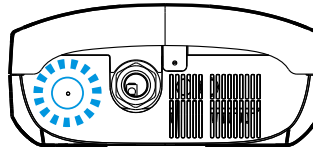
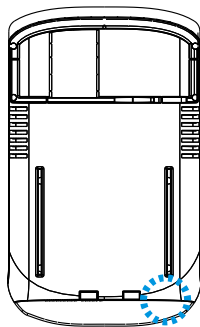
7. Screw the outer cap back to its place.
8. Plug the RJ-45 head to the RJ-45 port.
9. Install the electrical box and its cover back into their places.



Note: You will need to drill a hole to let the cable go into the charging station. For example, see the following figure.

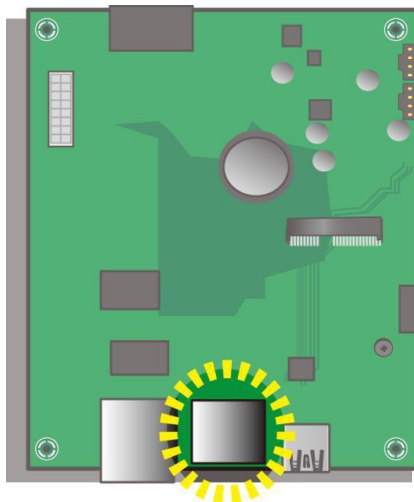
From lower right corner

From the bottom

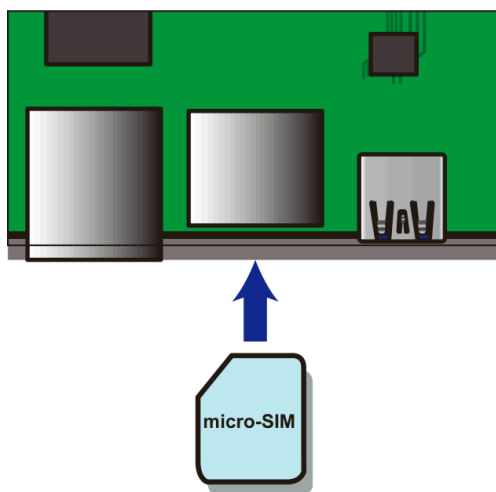


3.4 Installing the Micro SIM Card

1. Locate the micro SIM card slot.



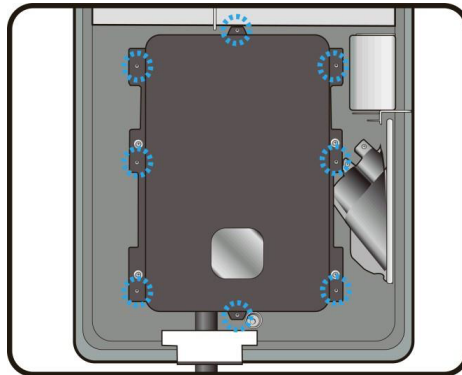
2. Insert the card into the slot in the direction shown in the following figure.



3.5 Setting the Rotary Switch

The following procedure describes how to set the rotary switch to limit the charging current.

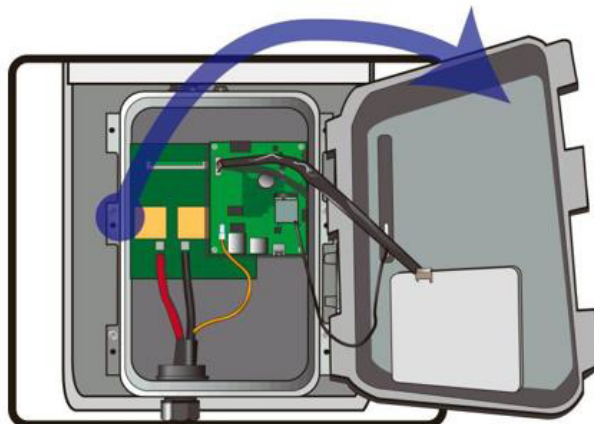
1. Open the electrical box:
 - a. Using a T20 Torx screwdriver, unscrew the eight Phillips screws, as shown below.



- b. Open the box cover as shown in the following figure.

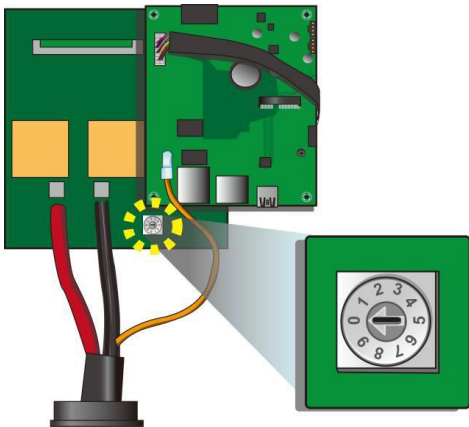


Note: There are cables connected to the cover. Open the cover with care.



2. Select the current from rotary switch by referring to the following current selection table.

Table 3-6. Current Selection Table



Position	Maximum Output Current	Required Circuit and Breaker Rating
0	10A	15A
1	12A	15A
2	16A	20A
3	20A	25A
4	24A	30A
5	32A	40A
6	40A	50A
7	48A	60A
8	63A	80A
9	80A	100A

3. Install the electrical box cover back into its place.



Note: If the front cover of the inner box needs to be removed, see section 3.3.3.4 for instructions on removing and replacing the cover.

Chapter 4. Using the Web Interface

4.1 Connecting to the Network



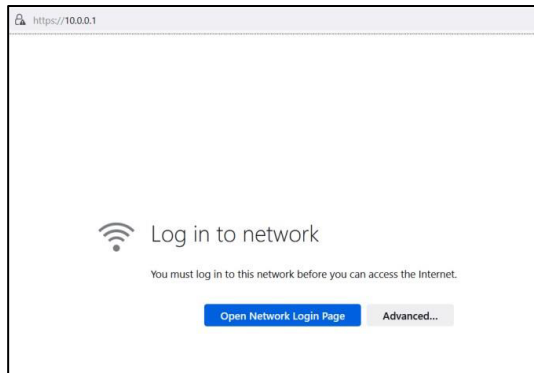
Note: The pages shown in this chapter may appear differently for you, depending on your device and browser.

1. Turn on the charger unit and wait for the booting process to finish. When the front LED stops blinking orange and the blue LED stays ON, the device started a Wi-Fi access point that remains active for 5 minutes for device provisioning and configuration.
2. Using an Apple or Android device, connect to the Wi-Fi network access point. This access point has an SSID that will be the unique device ID of the charger. Constantly refresh your Wi-Fi client to view nearby networks. Find the network with the device ID that belongs to the unit.
 - SSID: 0012345618345601 (It will look similar to this)
 - Password: password

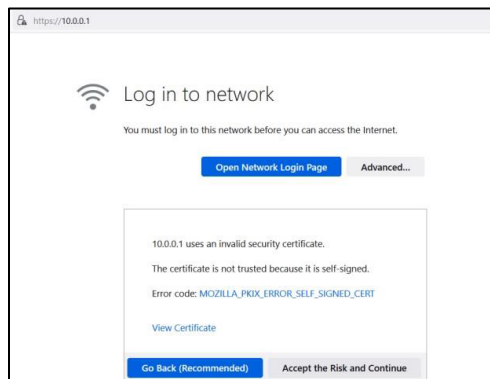


Note: If your browser does not open, open your browser manually. If the network does not appear in four minutes, repeat step 1.

3. After the unit connects to the access point, point a browser to <https://10.0.0.1>.
4. When the following page appears, press **Advanced**.

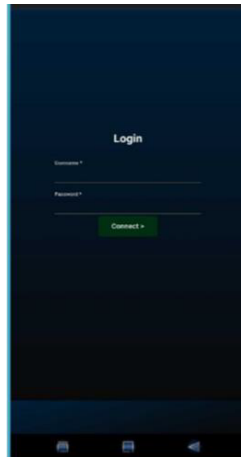


5. At the next page, press **Accept the Risk and Continue**.

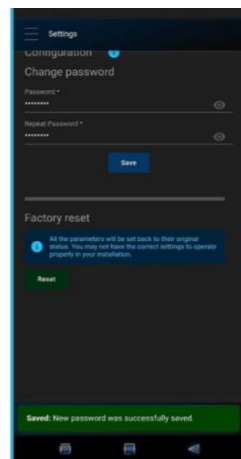


6. At the following prompt, use these credentials to log in:

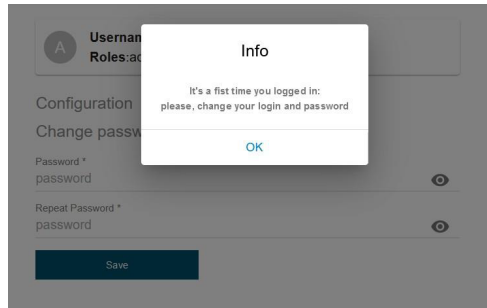
- Username: admin
- Password: password



7. Press the Connect button or press Enter.



8. At your first login, the system recommends you change your password.



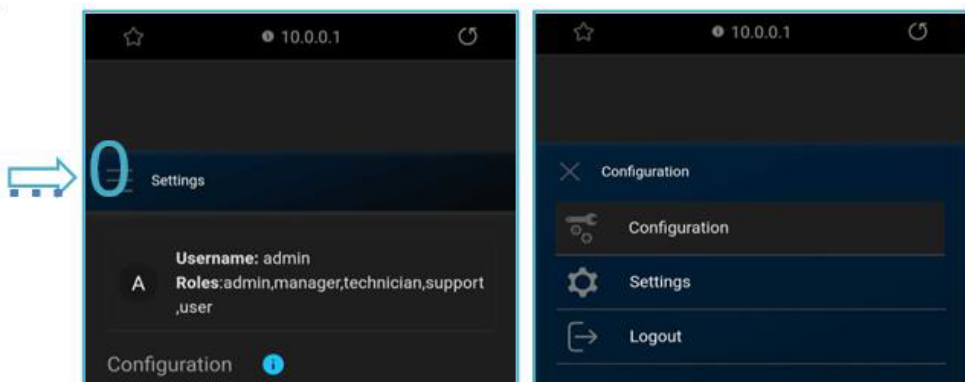
9. Enter your new password and save your change. Wait for the confirmation message to appear.



Tip: Keep your password in a safe location for future logins.

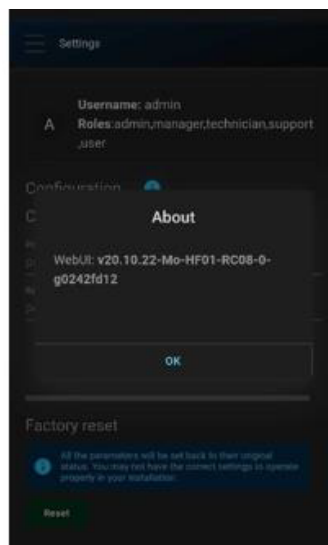
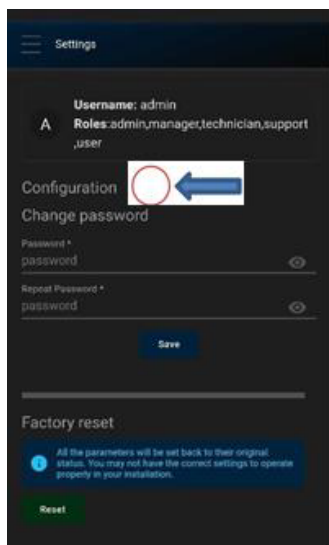
4.2 Using the Menus

1. Click the menu icon on the top.
2. Click one of the following choices:
 - **Configuration:** Updates the Network, OCPP, WIFI Client, Wi-Fi Hotspot, or LTE settings.
 - **Settings:** Updates your password, shows the available firmware, and resets the unit.
 - **Logout:** Disconnects from the interface.



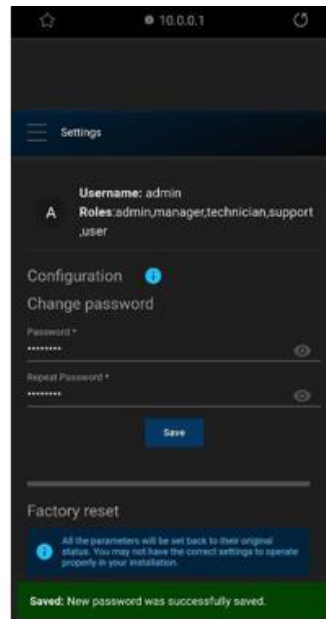
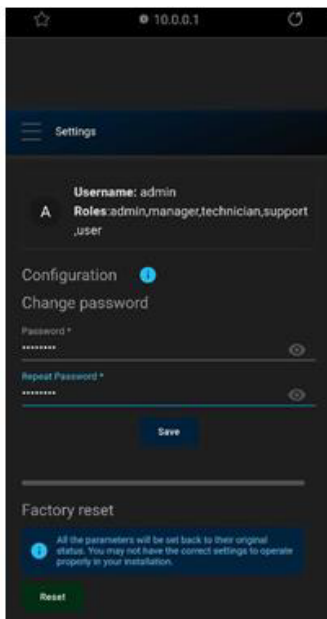
4.2.1 Showing the Firmware Version

Under **Settings**, click the exclamation mark at the right side of the Configuration text.



4.2.2 Updating Your Password

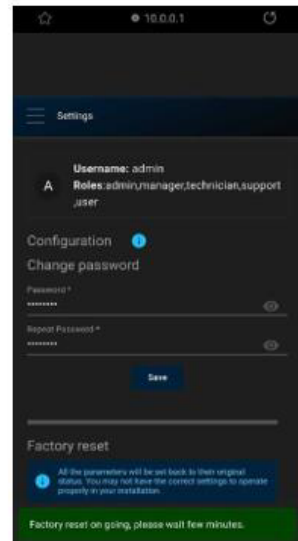
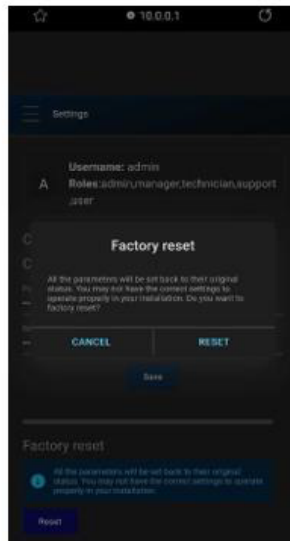
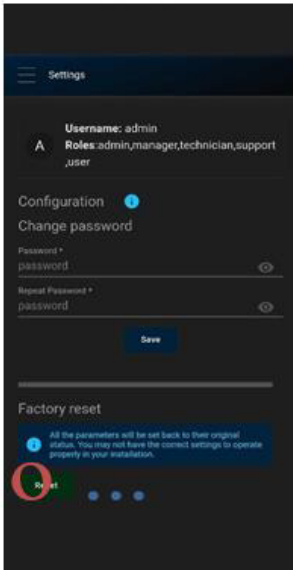
1. Under **Settings**, enter your new password in both text boxes.
2. Click the **Save** button.
3. Wait for confirmation.



4.2.3 Resetting the Unit

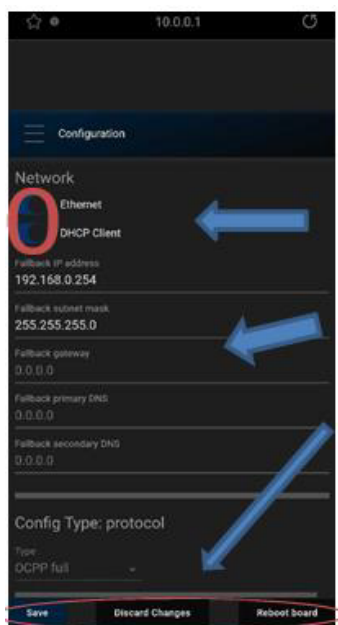
The following procedure returns your device to its factory settings.

1. Under **Settings**, press the **Reset** button.
2. Confirm your selection or cancel it.
3. If you choose reset again, a message appears. Wait for the reset to finish.



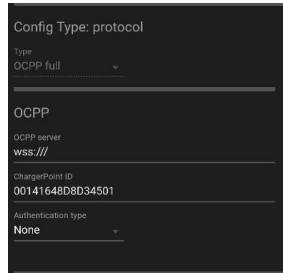
4.2.4 Checking Network Settings for the LAN

1. Under **Configuration**, press the **Ethernet** switch to activate or deactivate the unit's Ethernet port.
2. Press the **DHCP Client** switch to activate or deactivate the client from the unit.
3. If the Ethernet port will be used, accept or change the IP address, subnet mask, and other settings.
4. After changing the settings, a menu at the bottom of the display prompts you to save changes, discard changes, or reboot the unit to apply the changes.



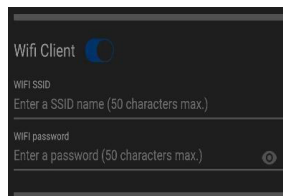
4.2.5 Checking Open Charge Point Protocol (OCPP) Settings

1. If OCPP protocol will be used, accept or change the server, Charger Point ID, and Authentication type settings under **Configuration**.
2. After changing the settings, a menu at the bottom of the display prompts you to save changes, discard changes, or reboot the unit to apply the changes.



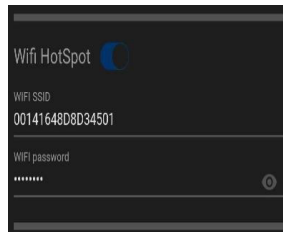
4.2.6 Checking Wi-Fi-Client Settings for the Wi-Fi Network

1. Under **Configuration**, press the **Wi-Fi Client** switch to activate or deactivate the network from the unit.
2. If a Wi-Fi connection will be used, accept or change SSID and password settings.
3. After changing the settings, a menu at the bottom of the display prompts you to save changes, discard changes, or reboot the unit to apply the changes.



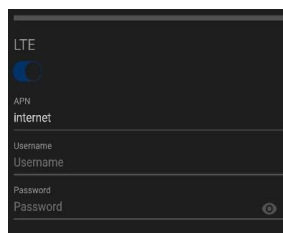
4.2.7 Checking the Wi-Fi Hotspot for Accessing the Point Network

1. Under **Configuration**, press the **Wi-Fi Client** switch to activate or deactivate the network from the unit.
2. If a Wi-Fi connection will be used, accept or change the SSID and password settings.
3. After changing the settings, a menu at the bottom of the display prompts you to save changes, discard changes, or reboot the unit to apply the changes.



4.2.8 Checking Sf. LTE Settings for Wireless Broadband Communication Network

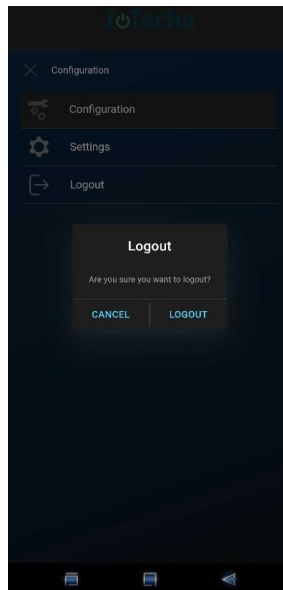
1. Under **Configuration**, press the **LTE** switch to activate or deactivate the network from the unit.
2. If a Wi-Fi connection will be used, accept or change the SSID, password, and other settings.
3. After changing the settings, a menu at the bottom of the display prompts you to save changes, discard changes, or reboot the unit to apply the changes.



4.2.9 Logging Out

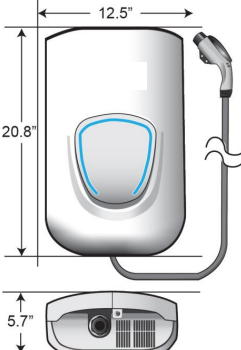
Press the **LOGOUT** button to disconnect from the unit.

Press **CANCEL** to stay connected to the unit.

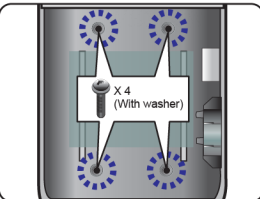


APPENDIX A - Fact Sheet

EV Charger

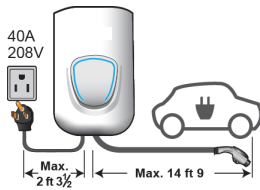


Mounting holes
(Drill 9mm holes to fit provided M8 mounting screws.)

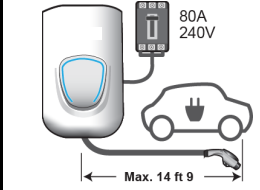


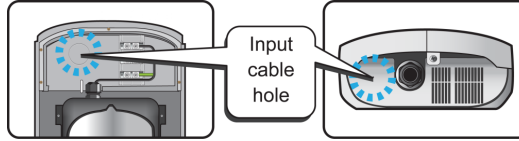
Electrical	
Max Output Current (Amperage)	80A
Phase	Single
AC Power Input Rating - Standard	208/240VAC 60Hz single phase
With IEC15118/ISO15118	YES
Wiring – Standard	3-wire (L1, L2, G)
Output Power (kW @ max A)	19.2kW (240VAC@80A)
Input Cord Requirement	Hardwire - 80A
Charging plug	SAE J1772 (80A)

40A model (Cord and Plug)



80A model (Hardwire)





Input cable hole



LED Indicator

	Standby (Blue)
	Charging (Flashing Green)
	Full Charged (Steady Green)
	Fault (Red)

Environmental

NEMA/IP Rating (Dust / Moisture)	NEMA 3R
IK Rating (Mechanical Impact)	IK 10
Altitude	3,500 m (Operating)
Solar radiation	1120 W/m ² (Class 2K4)
Wind rating	12 Beaufort
Operating temperature	-30°C to +50°C
Storage temperature	-40°C to +60°C
Operating humidity	Up to 85% non-condensing

FEATURES:

- **Ready for home use** - This product is designed for home-use and requires one dedicated 208/240VAC 60Hz single phase 3-wire power source.
- **High compatibility** - This product charges USA EVs easily and efficiently.
- **LED Display** - Simple, easy to understand LED indicators show charger status.

IMPORTANT SAFETY INSTRUCTIONS

- Read the manual thoroughly before you attempt to install or operate this equipment.
- This product is intended for charging vehicles only.
- This product shall be installed, adjusted, and serviced by qualified electrical personnel.
- Isolate the product from any electrical source before wiring or servicing it. Failure to follow this may lead to severe bodily injury or death.



Rotary Switch for limiting charging current

Position	Maximum Output Current	Required Circuit and Breaker Rating
0	10A	15A
1	12A	15A
2	16A	20A
3	20A	25A
4	24A	30A
5	32A	40A
6	40A	50A
7	48A	60A
8	63A	80A
9	80A	100A

APPENDIX B - Specifications

B.1 Electrical Specifications

Specification	Model EVC80-310-001
Max Output Current (Amperage)	80A
Phase	Single
AC Power Input Rating - Standard	208/240VAC 60Hz single phase
With IEC15118	YES
Wiring – Standard	3-wire (L1, L2, Earth)
Output Power (kW @max A)	19.2kW (240VAC@ 80A)
Input Cord Requirement	Hardwire
Charging Plug	SAE J1772 (80A)
Charging Cable Length	15' (4.5meters)

B.2 Mechanical Specifications

Specification	Model EVC80-310-001
Dimensions (mm)	529 X 317 X 145
Weight (kg/lbs)	14.5kg/32lbs

B.3 Communication Options

Specification	Model EVC80-310-001
Wireless Network	2.4GHz Wi-Fi (802.11 b/g/n)
Wide Area Network	4G LTE (optional)
LAN	LAN 10/100
RFID Reader	ISO 15693, 14443NB

B.4 User Interface and Control

Specification	Model EVC80-310-001
LED Indicators	<ul style="list-style-type: none">• Standby (blue)• Charging (flashing green)• Full Standby (blue)• Full charged (steady green)• Fault (red)• Charged (steady green)

B.5 Environmental

Specification	Model EVC80-310-001
NEMA/IP Rating (Dust/ Moisture)	NEMA3R
IK Rating (Mechanical Impact)	IK 10
Altitude	3,500 m (operating)
Solar Radiation	1120 W/m 2 (Class 2K4)
Wind Rating	12 Beaufort
Operating Temperature	-30°C to +50°C
Storage Temperature	-40°C to +60°C
Operating Humidity	up to 85% @ +50°C (122°F) non-condensing
Non-Operating Humidity	up to 95% @ +50°C (122°F) non-condensing
Warranty (yr)	2 (optional)

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evocharge.com**



42-015P227XXX