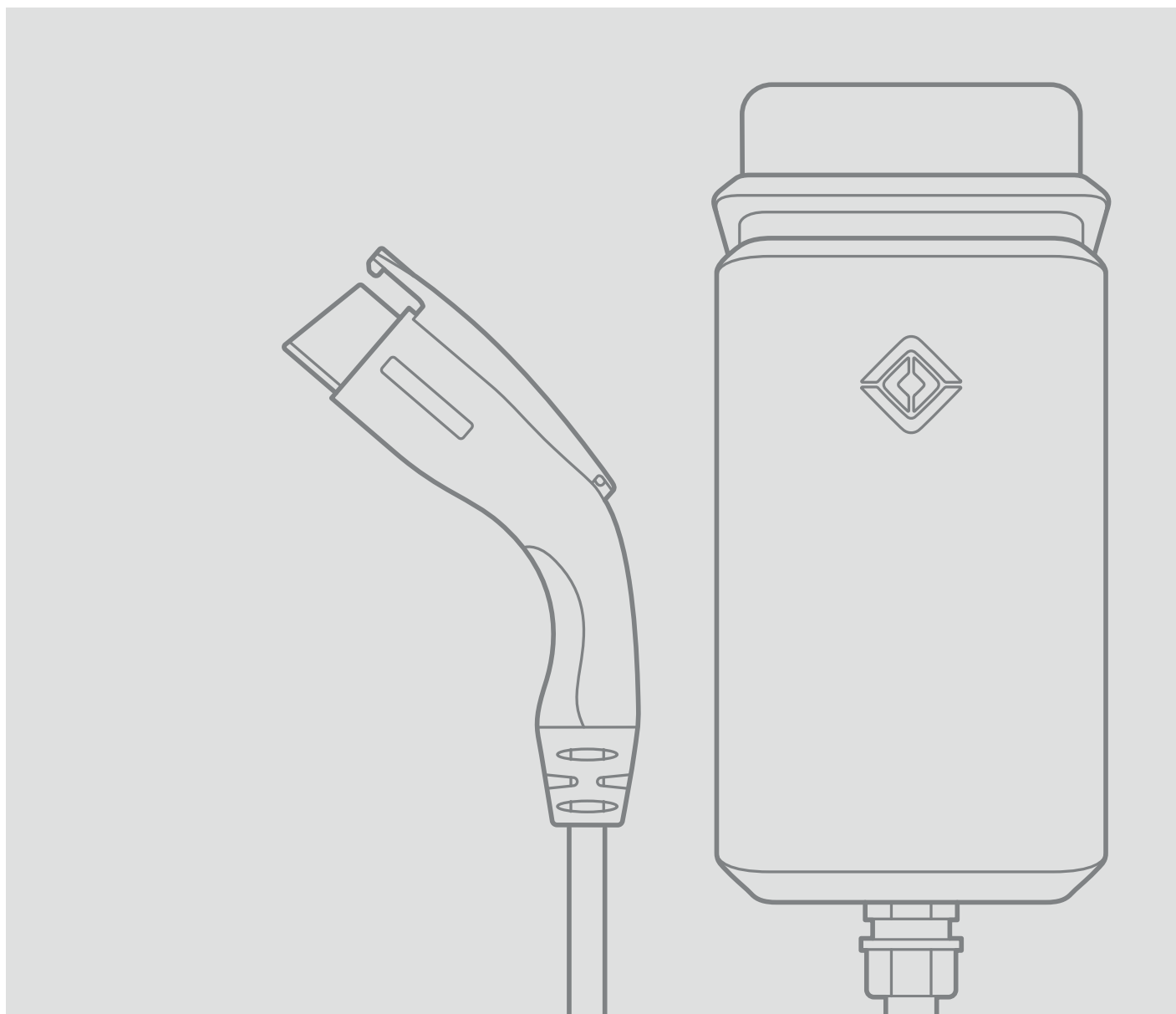


WALL CHARGER

# Installation Guide





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# Important Safety Instructions






## SAVE THESE INSTRUCTIONS

Read all the instructions before using the Rivian Wall. Follow the safety instructions and warnings in this guide when using the Wall. Failure to do so may result in fire, electrical shock, serious injury, or death.

## PRECAUTIONS

The following safety symbols are used in this document.

	Risk of electric shock
	Risk of personal injury
	Risk of damage to equipment

### RISK OF ELECTRICAL SHOCK



- Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the product is properly grounded.
- Do not touch live electrical parts. Incorrect connections may cause electric shock.
- No user serviceable parts inside. Refer servicing to qualified service personnel.
- Do not put fingers into the coupler.
- Do not use this equipment if the flexible power cord or cable is frayed, has broken insulation, or any other signs of damage.
- Do not use this equipment if the enclosure or the coupler is broken, cracked, open, or shows any other indication of damage.
- Do not allow unsupervised children in the area during installation of the Wall.
- Before connecting the Wall to a power supply, check that the power supply voltage and current rating corresponds with the power supply details shown on the product rating label.
- Use appropriate protection when connecting to a main switchboard.
- Ground the Wall through a permanent wiring system using the equipment grounding conductor.
- To reduce the risk of fire, connect only to a circuit provided with no more than 60 amperes maximum branch circuit over-current protection in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part I, C22.2.
- When a breaker smaller than 60 amperes is used, ensure that the wire sizes used comply with the minimum sizes prescribed by national and local electrical codes and standards.

### RISK OF PERSONAL INJURY



**DANGER**

- Disconnect the power supply before installing or repairing the Wall. Failure to do so may result in physical injury or damage to the power supply system and the Wall.
- Keep any packing materials away from children. These materials are a potential source of danger, and can cause suffocation.
- Only a licensed electrician should perform this installation in accordance with the provisions of national electrical codes and standards.

### RISK OF DAMAGE TO EQUIPMENT









**CAUTION**

- Do not operate this equipment in temperatures outside its operating range of -30°C to +50°C (-22°F to +122°F).
- Store this equipment in a clean dry location between -40°C and +80°C (-40°F to +176°F).
- Do not use extender cables to increase the length of the charging cable.
- If this unit is installed outdoors, the components and fittings must be rated for outdoor installation. The outlet must be installed properly to maintain the proper NEMA rating of the enclosure.
- Use anti-static gloves, wrist bands connected to ground, and isolated tools for installation and removal of the faceplate.
- Avoid direct hand contact with the network board.
- For storage/shipping of the front panel or network board, use a bubble wrap bag with ESD (electrostatic discharge) protection.

### SAFETY SYMBOLS ON HARDWARE LABELS

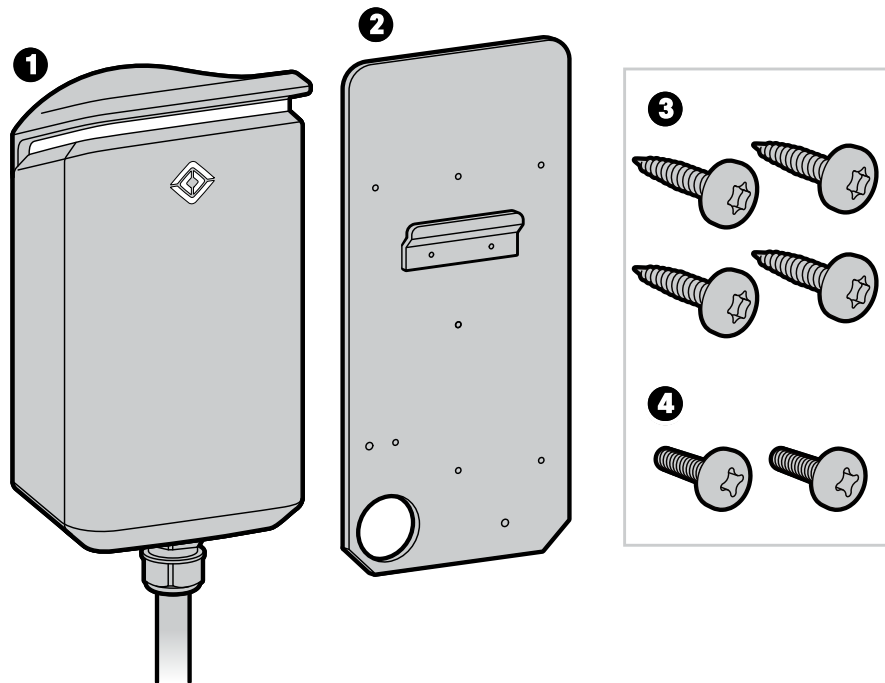
The following safety symbols may appear on labels located on hardware used in this installation.

	Risk of Electric Shock
	Danger
	Phase
	Equipment Ground
	Instruction Manual
	UL Logo

# Introduction

This document provides installation instructions for the Rivian Wall.

## Identify Parts



1. Wall
2. Mounting plate
3. Four T20 anchor screws (to attach the mounting plate to a wall)
4. Two #2 Phillips screws (to attach the charger to the mounting plate)



# Tools

The following tools are *required* for installation:

- #2 Phillips screwdriver
- Security T20 Torx screwdriver
- Flathead screwdriver, 7/32 in width
- Adjustable torque screwdriver, 10 in-lb to 40 in-lb
- Multimeter

The following tools are *optional* but may be helpful for installation:

- Hole saw
- Stud finder
- Level

## Remove the Faceplate

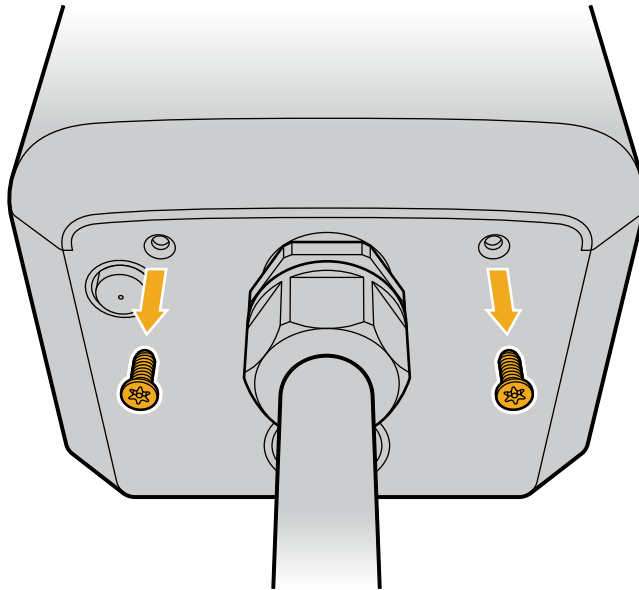


- Use anti-static gloves, wrist bands connected to ground, and isolated tools for installation and removal of the faceplate.
- Avoid direct hand contact with the network board.

## REMOVE THE FACEPLATE

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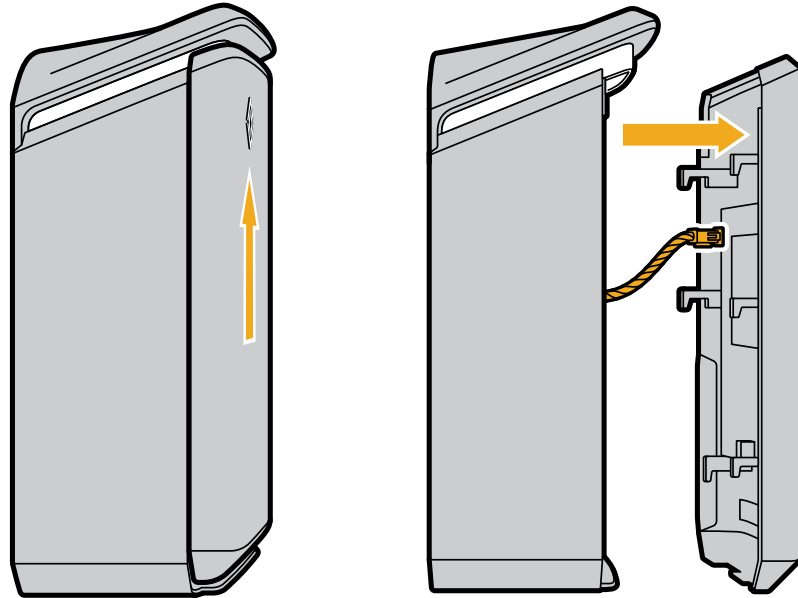
1. Remove the two Security T20 Torx screws on the bottom of the Wall.



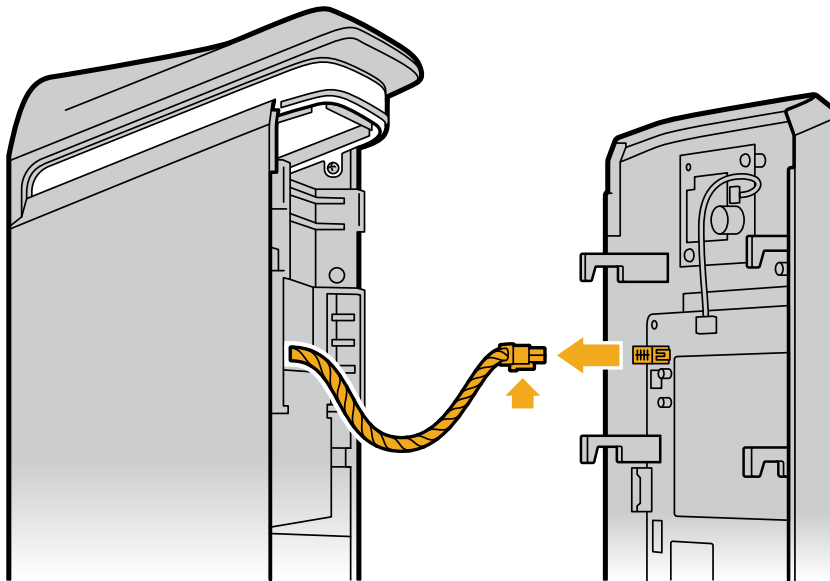
## REMOVE THE FACEPLATE

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2. Push the faceplate up, and then carefully pull it partially off of the charger. A cable attaches between the interior of the faceplate and the Wall housing.



3. Press the locking tab to release the cable from the network board on the interior of the faceplate.



4. Remove the faceplate.

# Installation

## SELECT AN INSTALLATION LOCATION

- For an indoor site, select a location that is between 18 in (45 cm) and 4 ft (1.2 m) from the ground.
- For an outdoor site, select a location that is between 24 in (60 cm) and 4 ft (1.2 m) from the ground.
- Select a location that ensures the charger cable can easily reach the vehicle charge port.

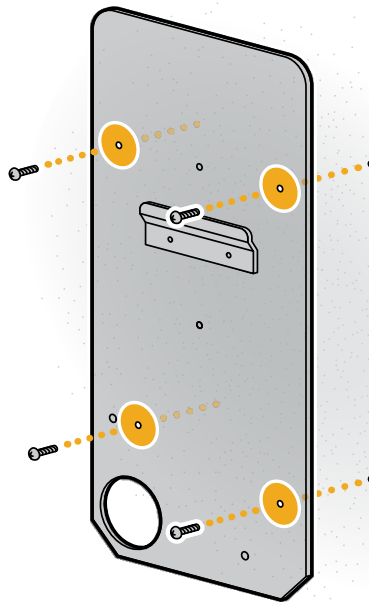
## ATTACH THE MOUNTING PLATE TO THE WALL

### NOTE

- Feed conduit only from the bottom when mounting the Wall Charger at an outdoor site.
- When installing to a concrete wall, select a fastener suitable for installation on concrete or stucco. Do not use the T20 fasteners provided with the product.

To attach the mounting plate to a concrete wall:

1. With the flat side of the mounting plate against the wall, and the large hole positioned in the lower-left, install a fastener in each of the four locations shown.



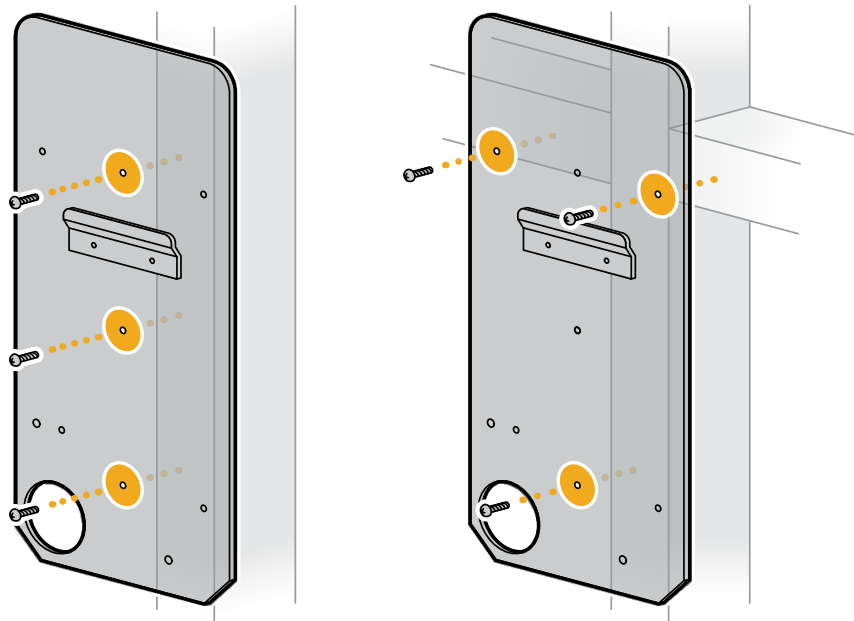
2. Use a level to confirm the plate is level.
3. Tighten the screws in order to affix the mounting plate to the wall. Ensure that both the screw and the wall are not damaged during installation.

## INSTALLATION

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To attach the mounting plate to a finished wall supported by wooden studs:

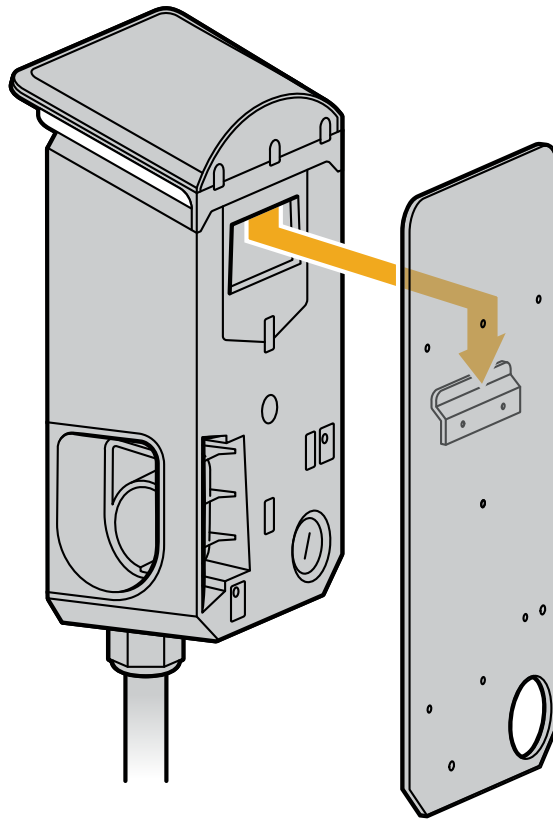
1. Use a stud finder to locate the stud(s).
2. With the flat side of the mounting plate against the stud, and the large hole positioned in the lower-left, install the T20 screws in the locations shown.
  - For a vertical stud, install a screw in each of the three center holes.
  - For a horizontal stud:
    - a. Select a location where the horizontal and vertical studs meet.
    - b. Place the three holes in the upper third of the mounting plate against the horizontal stud and the three holes down the center of the mounting plate against the vertical stud.
    - c. Install a screw in each of the two outer holes in the upper third of the mounting plate.
    - d. Install a third screw in the lower center location of the mounting plate.



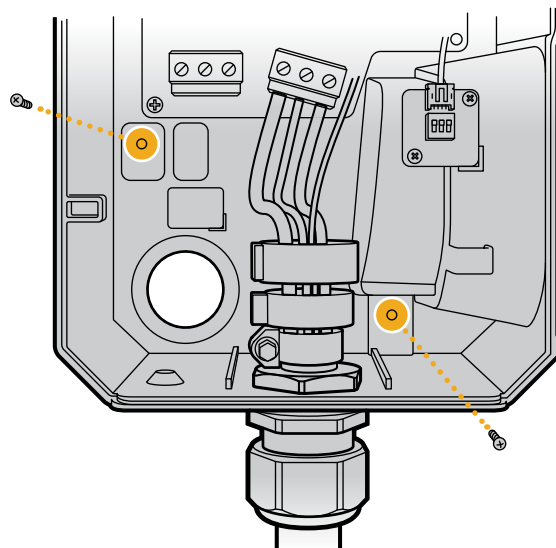
3. Tighten the screws in order to affix the mounting plate to the wall. Ensure that both the screw and the wall are not damaged during installation.

## INSTALL THE WALL CHARGER ON THE MOUNTING PLATE

1. Hang the Wall Charger on the installed mounting plate.











2. Locate, install, and tighten the two #2 Phillips screws.



3. Torque each screw to 12 in-lb (1.36 N·m).

## SET THE OPERATING CURRENT

Configure the dip switches to set the operating current.

Current	Circuit Breaker Specification	Typical Wire Specification*	Dip Switch			Figure
			1	2	3	
6 A	7.5 A	12-14 AWG	OFF	OFF	OFF	
12 A	15 A	12-14 AWG	OFF	OFF	ON	
16 A	20 A	12-10 AWG	OFF	ON	OFF	
20 A	25 A	10 AWG	OFF	ON	ON	
24 A	30 A	10 AWG	ON	OFF	OFF	
32 A	40 A	8 AWG	ON	OFF	ON	
40 A	50 A	8 AWG	ON	ON	OFF	
48 A (default)	60 A	6 AWG	ON	ON	ON	

\* These typical wire sizes are based on the 90°C column in the National Electrical Code.

## CONNECT CONDUIT AND WIRES

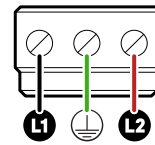
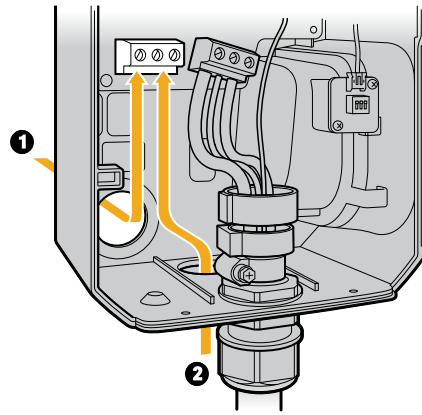
Consult a licensed electrician to select a wire size appropriate to the breaker size and to the maximum current set.

To connect to the Wall:

1. Select an appropriate wire entry point based on the table and image below.

Indoor Installations	Outdoor Installations
Through rear (1) or through bottom (2)	Through bottom (2) only

2. Install conduit or wire fittings into the wire entry point. Ensure that the fittings are rated for the type and size of wire used.
3. Trim the ends of the wires to an appropriate length to allow for future servicing.
4. Strip the ends of the conductors 7/16 in.
5. Fully insert the wire into the corresponding terminal. Ensure that the conductors (L1, Ground, L2) are installed in the correct locations.



Do not overtighten the terminals.

6. Torque each terminal to 10.6 in-lb (1.2 N-m).
7. After energizing the charger, use a multimeter to test the voltages on the input terminal.



## INSTALL THE FACEPLATE



- Use anti-static gloves, wrist bands connected to ground, and isolated tools for installation and removal of the faceplate.
- Avoid direct hand contact with the network board.

1. Position the faceplate near the front of the Wall.
2. Reconnect the cable from the Wall to the network board on the interior of the faceplate.
3. Slide the faceplate down onto the Wall.
4. Install the two Security T20 Torx screws.
5. Torque each Security T20 Torx screw to 12 in-lb (1.36 N·m).

## Complete the Installation

Access the *Rivian Wall Charger Connection Guide* at the QR code below for more details on how to get the most out of your Rivian Wall Charger.



# Light Bar States

Light Bar	State	Indication
White	Solid	End of charge session after unplugging from vehicle
White	Pulsing	Initializing
White (center light only)	Pulsing	Ready
Green	Pulsing	Charging
Green	Solid	Charging complete
Blue	Solid	Waiting to charge
Blue	Fast pulsing	Bluetooth communicating
Blue	Slow pulsing	Over-the-air (OTA) software update in progress
Red	Pulsing	Error (see <a href="#">Troubleshooting</a> )
Red	Solid	Error ( <a href="#">contact Rivian</a> )

## Troubleshooting

If the Wall light is pulsing red:

1. Unplug the charger from the vehicle.
2. Switch power off and then on again at the circuit breaker.
3. Allow the Wall to boot up.

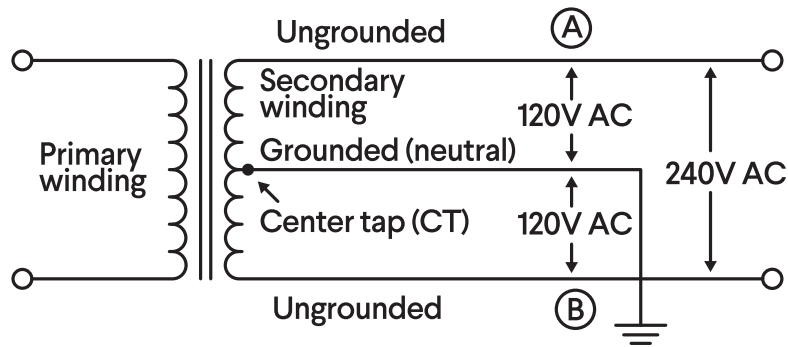
If the issue persists, or if the Wall light is solid red, [contact Rivian](#).

# Specifications

Specification	Description
Voltage	208/240 VAC (-20% – +15%), single-phase
Frequency	60 Hz
Charging connector	SAE J1772
Charging cable length	25 ft (7.6 m)
Wi-Fi	IEEE 802.11 b/g/n
Network band	2.4 GHz
Real-time clock	Yes (7 days)
Ethernet	10/100BASE-T
Bluetooth	Supports Bluetooth 5.0
Data protocol	OCPP 1.6; ISO 15118 capable
Metering accuracy	Embedded $\pm 1\%$
Operating temperature	-22°F to 122°F (-30°C to 50°C)
Storage temperature	-40°F to 176°F (-40°C to 80°C)
Wiring type	Hard-wired
Acceptable wire sizes	#14 to #6 AWG copper only (#6 AWG required for full 48 A continuous current)
Operating current	6 A, 12 A, 16 A, 20 A, 24 A, 32 A, 40 A, 48 A (default, maximum)
IP performance	NEMA Type 3R
Impact resistance	IK8
Dimensions	Height: 16.4 in (41.6 cm) Width: 7.7 in (19.63 cm) Depth: 5.8 in (14.45 cm)
Weight	24.25 lb (11 kg) including 25 ft cable
Certification	UL 1998/2231/2594; FCC Part 15B
UL file number	E520745
Product number	PT00057325-A

# Supplemental Information for Electrical Service Wiring

## 240V SPLIT-PHASE SYSTEM (RESIDENTIAL)



## Federal Communication Commission Interference Statement

This equipment complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This equipment may not cause harmful interference, and (2) this equipment 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 in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not covered in this Guide must be approved in writing by the manufacturer's Regulatory Engineering Department. Changes or modifications made without written approval may void the user's authority to operate this equipment.

### **Industry Canada Statement**

This equipment complies with ISED's license-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this equipment must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

### **Radiation Exposure Statement**

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20 cm between the radiator & your body.

### **Déclaration d'exposition aux radiations:**

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20 cm entre le radiateur et votre corps.

# Contact Rivian

Call (888) RIVIAN1 / (888) 748-4261

[customerservice@rivian.com](mailto:customerservice@rivian.com)