IYILO

Enjoy your Journey

Installation and User Manual

www.IYILO.shop

IYILO

Electrify your Journey

WHATSAPP: +1(213) 804-0158

EMAIL: SUPPORT@IYILO.SHOP

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IYILO

Electrify Your Journey

Thank you for choosing the IYILO EV Charger to start your smart charging journey. We are here to power and protect every mile ahead.

Start your charging journey in 2 easy steps:

1. Install your EV charger by following the User Manual or Quick Installation Guide.
2. Download the IYILO App to schedule, monitor, and control your charging.

Need assistance?

We offer comprehensive and timely after-sales support to address any product-related concerns.

We're here for you:

- WHATSAPP: +1(213) 804-0158
- EMAIL: SUPPORT@IYILO.SHOP
- WEBSITE: WWW.IYILO.SHOP/CONTACT

If you're considering a return, we kindly ask that you contact our support team first-we'll assist you with the necessary steps and ensure a smooth process.

IYILO-Residential level 2 EV Charger

Now, Enjoy your Journey!

Preface

After a year of continuous refinement, we are proud to present this reliable and intelligent residential EV charger, designed with your needs in mind. We hope this product brings convenience to your charging journey and offers you a smart charging experience. Thank you for supporting IYILO.
This Electric Vehicle Supply Equipment is manufactured to provide 3-years of trouble-free performance if use in accordance with these instructions and being well-maintained.

Trademark & Copyright

IYILO is the trademark of EVRA Energy LLC, registered in China, United states and Canada. All other marks on IYILO equipment are Trademark or registered trademark of specific holder.

Disclaimer of Warranties and Limitation of Liabilities

- All information, specifications, and illustrations provided in this manual are based on the latest data available at the time of publication. IYILO reserves the right to make changes to product design, specifications, or documentation without prior notice.
- IYILO shall not be held liable for any direct, incidental, special, or indirect damages including economic loss or loss of profits-resulting from the use of this product, misuse, or failure to follow the instructions in this manual.
- While reasonable efforts have been made to ensure the accuracy of this manual, IYILO does not guarantee the completeness or correctness of its contents. This includes, but is not limited to, technical specifications, functions, illustrations, and installation guidance.

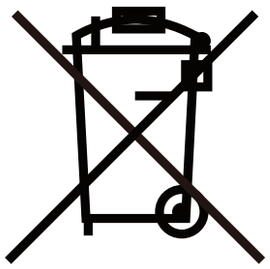
IMPORATANT: Damages caused by deviation from installation guidelines, custom installations not approved by IYILO, or failure to comply with relevant standards are excluded from the product warranty.

Certifications

This product has been tested and certified under EVRA ENERGY LLC to comply with applicable safety, electromagnetic compatibility, and energy efficiency
standards, including ETL, FCC, and ENERGY STAR. These certifications confirm compliance with regulatory requirements but do not extend or imply any warranty beyond what is expressly stated herein.

Proper Disposal

This product contains electronic components and must be disposed of in accordance with applicable local, state, and federal regulations. Do not dispose of this product with household waste.
The crossed-out wheeled bin symbol indicates that the product should be collected separately for proper recycling and environmental protection. Please follow your local guidelines for electronic waste disposal.



Safety Responsibility Notice

The safety information provided in this manual only covers typical scenarios identified by IYILO. However, IYILO cannot anticipate or evaluate every potential hazard. Users must take personal responsibility for ensuring that installation and use of this product do not endanger their own or others' safety.
If any unusual conditions arise during installation or use that are not clearly addressed in this guide, you must consult a licensed electrician or qualified professional. Failure to follow proper procedures may result in serious injury, electric shock, fire, or death.

Note: Strict adherence to the instructions in this manual does not exempt users from complying with local electrical codes, building standards, or safety regulations. IYILO is not responsible for risks or damages caused by unauthorized or improper installation.

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CONTENTS

1. Important safety instructions

1.1 Read Before Installation and Operation

Before installing or operating the IYILO charging station, please carefully read this manual in its entirety. Ensure that all installation and usage procedures comply with applicable local and national electrical codes and safety standards.
Improper or non-compliant installation may result in serious consequences, including equipment damage, personal injury, fire, or even death.
Failure to follow the instructions in this guide or to meet code requirements may void the product warranty and pose significant safety risks.

Safety messages indicate hazard levels to help prevent injury and equipment damage

DANGER

Indicates imminently hazards or unsafe practices that could result in death or serious injury.

WARNING

Indicates potential hazards or unsafe practices that could result in electric shock, fire, injury, or other serious consequences.

CAUTION

Indicates practices that could result in minor injuries or equipment damage if not followed properly.

1.2 Overall Warning & Cautions

WARNING

- Do Not insert fingers or foreign objects into the electric vehicle connector.
- This device should be supervised when used around children.
- Do not use the equipment if the flexible power cord or EV cable is frayed, broken or otherwise damaged, or fails to operate.
- Do not install or operate this equipment in areas containing flammable, explosive, corrosive, or combustible materials, substances, chemicals, or vapors.

WARNING

- Do not open the front cover or touch any internal components while the charger is powered. Always disconnect the power supply completely before accessing internal wiring or adjusting the rotary switch.
- 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 operate this equipment outside operating temperature range of-30°C~50°C(-22°F~122°F)
- To avoid a risk of fire or electric shock,do not use the device with an extensive cord.
- Do not attempt to repair any part of this IYILO EV Charger. There are no user-serviceable parts inside.
- To reduce the risk of fire, connect only to a circuit provided branch circuit over-current protection in accordance with the ANSI / NFPA 70 National Electrical Code (USA) or CSA C22.1–15 Canadian Electrical Code, Part 1 (Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico)
- The EV charger is intended for use with electric vehicles only. It is suitable only for vehicles that do not need ventilation while charging.

1.3 GROUNDING REQUIREMENT

DANGER

This product must be properly grounded to ensure safety.
Failure to do so may lead to electric shock, fire, or serious equipment damage.

▶ For plug-in installation

This charger is equipped with a plug that includes a grounding conductor. It must be plugged into a properly installed and grounded outlet that complies with all local codes.

WARNING

Do not modify the plug. If it does not fit the outlet, contact a licensed electrician to install a suitable one.

▶ For hardwired installation

The charger must be connected to a grounded, metal, permanent wiring system. Alternatively, a grounding conductor must be run together with the circuit wires and connected to the grounding terminal or lead on the charger.

If there is any doubt about proper grounding, consult a qualified electrician before proceeding with installation.

1.4 Installation Requirement

WARNING

Installation of the IYILO EV Charger—whether hardwired directly into the home's electrical system or installed with a NEMA receptacle—must be performed by a qualified and licensed electrician. The installation may also involve additional components such as a disconnect switch, dedicated electrical circuit, and appropriate conduit.

CAUTION

All work must be completed in accordance with the latest edition of National Electrical Code (NEC),as well as all applicable state and local electrical codes.

Improper installation may result in fire, electric shock, injury, or damage to the product. Ensure the electrical panel can handle the additional load, and that circuit protection (e.g., circuit breakers, GFCI) is appropriately rated and installed. Always disconnect power at the main service panel before beginning any i nstallation.

- **WARNING:** Disconnect electrical power prior to installing the charging station
- **WARNING:** Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.
- **WARNING:** UL Standard double pole or GFCI Beaker with appropriate current rating should be installed in the upstream AC distribution box.
- **CAUTION:** Disconnect power and use electrical protection equipment when wiring to the main supply.
- **CAUTION:** The device shall be mounted at height between 24inch and 48inch from ground.
- **CAUTION:** Please keep the charger in a clean area with low humidity. Not recommended to be installed in coastal environments with high humidity or high dust.

1.5 Daily Maintenance

- **CAUTION:** Please use the charger properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.
- **CAUTION:** Avoid moisture or water in the charger. If there is water or moisture ingress in the charger, it is necessary to immediately power off to avoid immediate danger, and notify the professionals to carry out maintenance before next use.
- **CAUTION:** Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
- **CAUTION:** Do not put heavy objects on the charger to avoid danger.

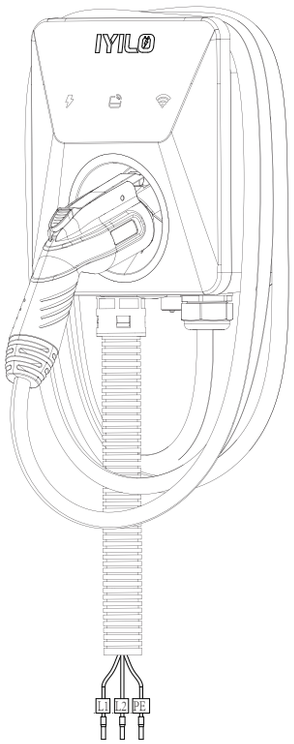
2. Product Overview

2.1 Models

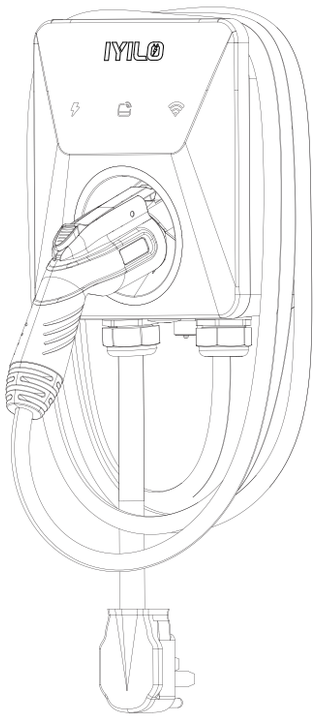
This manual applies to IYILO Level 2 EVSE Models IYILO-RA40 and IYILO-RA48.

Model IYILO-RA40: Maximum output 40A (Plug-In Version).

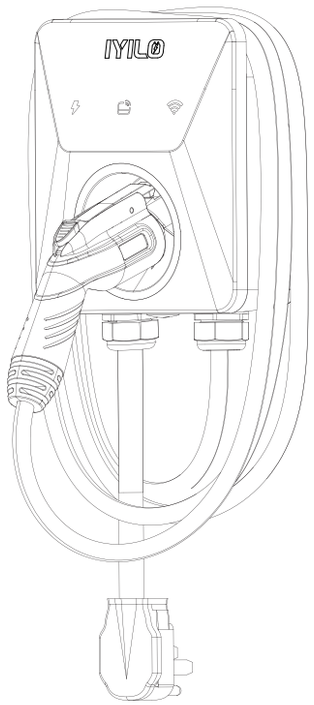
Model IYILO-RA48: Maximum output 48A (Plug-In Version and Hardwired Version).



Model:IYILO-RA48
(48A Hardwired Version)

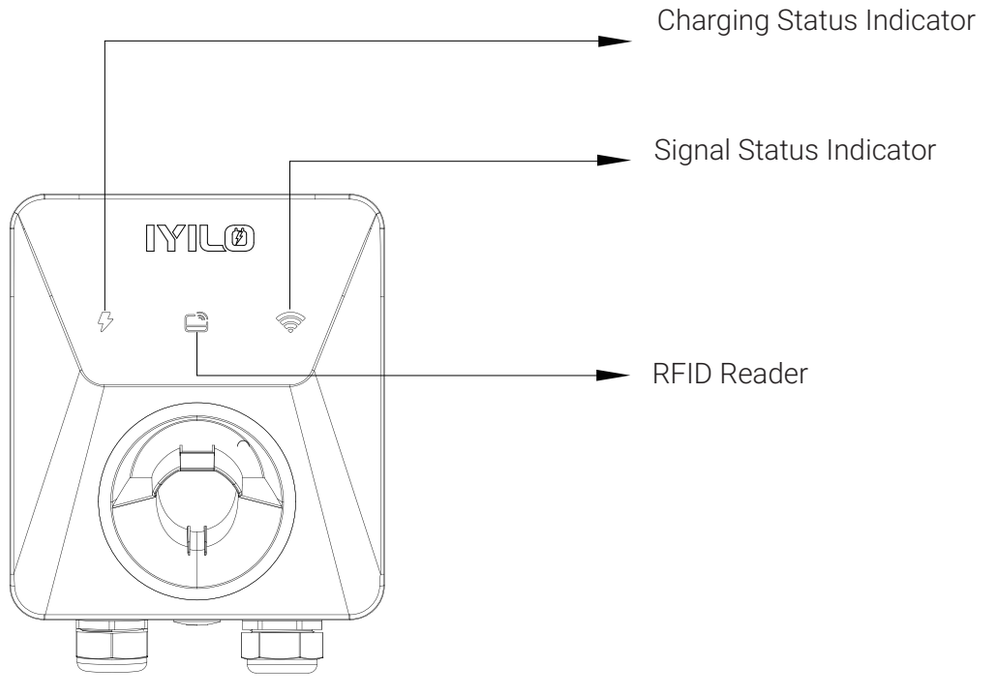


Model:IYILO-RA48
(48A Plug-in Version)

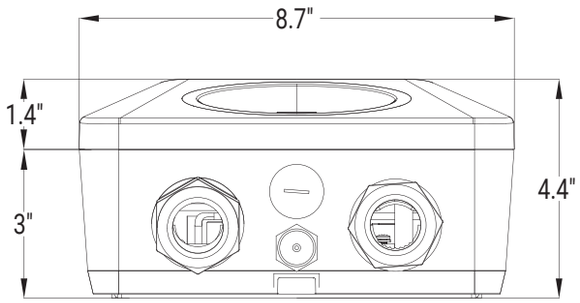


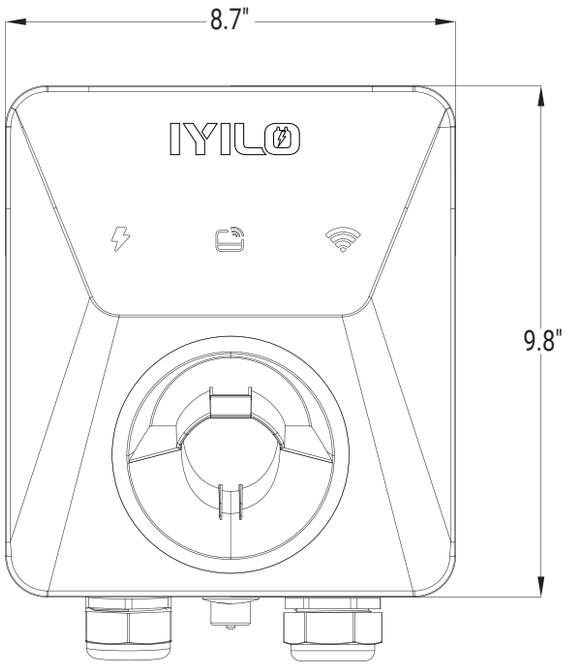
Model:IYILO-RA40
(40A Plug-in Version)

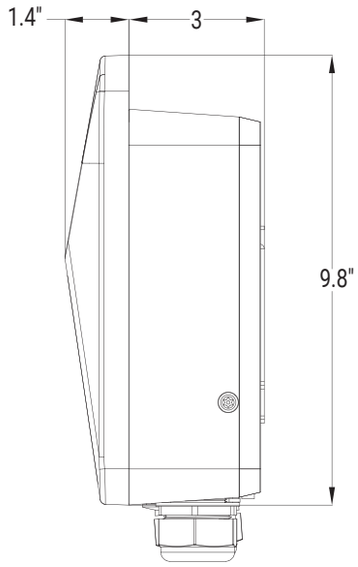
2.2 Indicators and Ports

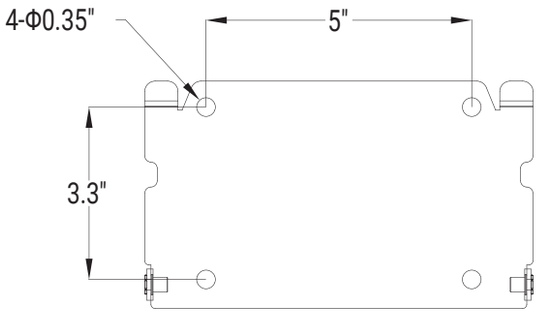


2.3 Product Dimension









2.4 Specification of IYILO EV Charger

▶ POWER

Maximum charging power	11.52KW/48A (Hardwired Version) 9.6KW/40A(NEMA PLUG Version)
Rated input Voltage	208/240V AC
Rated output Current	16A/32A/40A/48A
AC Power Frequency	60 Hz
Input Protection	OVP/UVP/RCD(CCID20)/SPD/Ground Fault Protection
Output Protection	OCP, OTP, Control Pilot Fault Protection
Connector Type	SAE J1772 AC Charging Connector
Cable length	25ft
Power cord	NEMA14-50(NTC Sensor included) /Hardwired

▶ OPERATIONAL RATING

Storage Temperature	-40°F ~+185°F (-40°C ~+85°C)
Operation Temperature	-22°F ~+122°F (-30°C ~+50°C)
Relative Operation Humidity	Up to 95% non-condensing
Relative Storage Humidity	Up to 95% non-condensing
Enclosure Rating	NEMA 4
Installation Type	Wall-mounted / Pedestal-mounted
Operating Altitude	≤6561ft
Dimensions (H*W*D)	(250*220*109)MM
Weight Total	8kg/17.6lb
Impact resistance	IK10

▶ OPERATIONAL RATING

Wi-fi Function	2.4G WIFI, 802.11 b/g/n
Status Indication	LED/APP/Built-in buzzer
Indication LED light	Blue/Green/Red/Yellow
User Interface	IYILO APP
User Authentication	APP/Plug-and-Charge/RFID Card
Conectivity	Wi-Fi, RS485(For Energy Meter Connection)
Software Update	OTA
OCPP	OCPP1.6J

▶ CERTIFICATION & COMPLIANCE

Compliance	UL 991/1998/2231/2594 NEC article 625
EMC compliant	FCC 15 Class B
CERTIFICATION	ETL/FCC/Energy Star

3. Package Contents

① IYILO EV Charger
② Operation and User Manual
③ Amperage reduction label
④ Wall Bracket Mounting Template
⑤ Welcome page
⑥ Mounting Bracket
⑦ RFID Card
⑧ Allen Wrench
⑨ M5 anti-theft round
⑩ M6 Hexagonal expansion screw
⑪ ST5.5 Phillips pan head tapping screw

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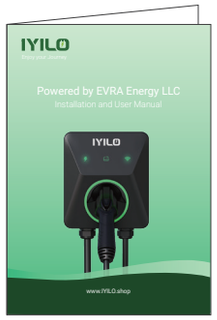

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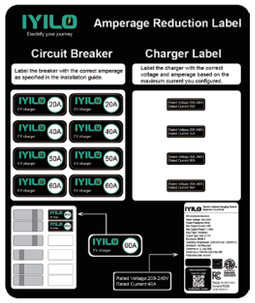

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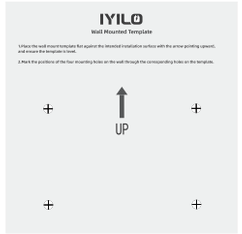

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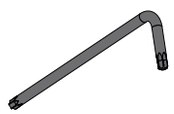

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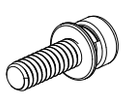

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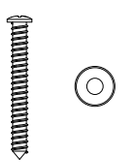

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4. Required Tools

① Wire stripper
② Socket wrench
③ Voltmeter or digital multi-meter
④ Level
⑤ Pencil or marker
⑥ Dril and drill bit
⑦ Philips screwdriver
⑧ Stud finder (optional)

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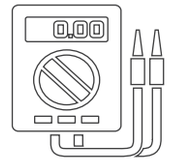

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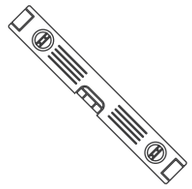

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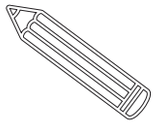

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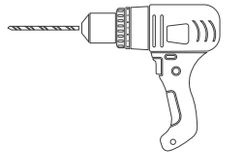

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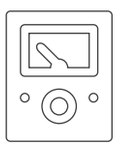

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5. Light Codes

Charging Status

Status indicator light	Description	Charger Status
	Green LED solid	Standby
	Blue LED blinking	Plugged in blinking
	Blue LED blinking	Authentication
	Green LED breathing	Charging
	Blue LED solid	Charging Stopped
	Yellow LED solid	Scheduled Charging
	Yellow LED breathing	Firmware Updating
	Yellow LED blinking	Device Unavailable
	Red LED	Fault/Error

Signal Status Indicator

Network indicator light	Description	Charger Status
	Blue LED solid	Network Not Configured
	Blue LED blinking	Connecting to Network
	Green LED solid	Network Connected
	Red LED solid	Network Connection Error

6. Mounting your EV Charger

⚠ CAUTIONS

For optimal wireless connectivity, position the charger near your Wi-Fi router. Avoid installing it on surfaces or in locations that may block or weaken the signal.

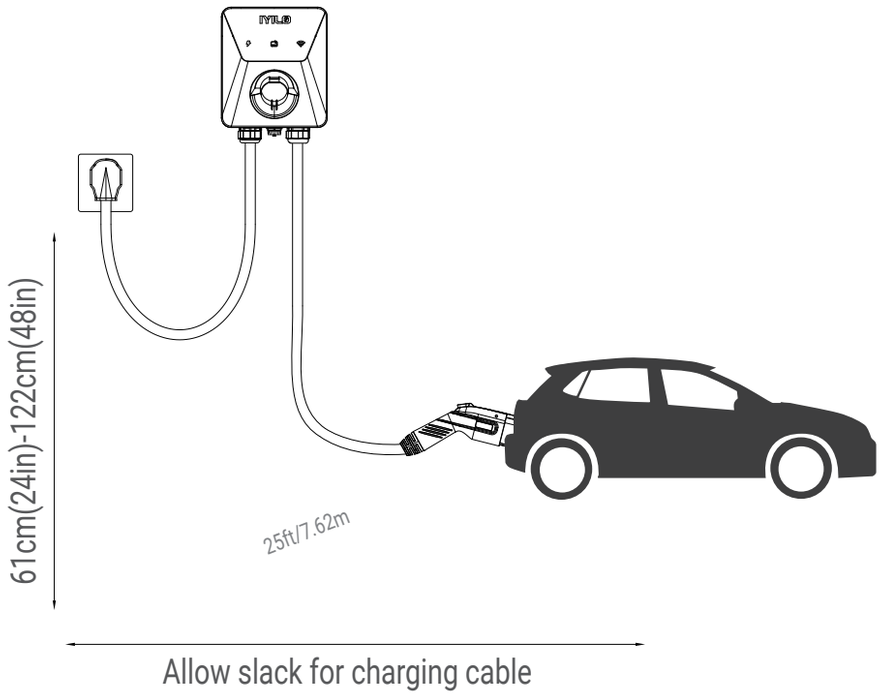
This EV charger is rated for use at altitudes up to 2000 meters. Use in environments with high humidity or excessive dust is not recommended.

6.1 General Placement Requirement

1. Cable Reach: Select a mounting location where the charging cable (25 ft / 7.62 m) can easily reach the vehicle's charging port with some slack to avoid tension.

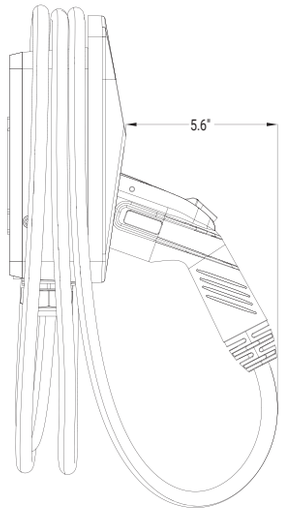
2. Height Recommendation: For most installations, it is recommended to mount the charger between 24 and 48 inches (61–122 cm) from the finished floor surface. This height range also aligns with ADA accessibility guidelines.

3. If installing the IYILO EV Charger outdoors, you must use either: A weather-resistant, outdoor-rated NEMA 14-50 outlet (for plug-in installation), or A properly sealed hardwired connection using outdoor-rated conduit and fittings.



4. When the charging connector is docked on the front panel, The distance from the wall to the handle of the charging connector is approximately 26 cm. Please ensure adequate clearance is left in front of the unit to avoid obstruction in walkways or accidental contact.

5. Ensure all components exposed to weather meet local code and environmental protection standards.



▶ For NEMA14-50 Plug-in Installations (Model IYILO-RA40 & IYILO-RA48)

1.Choose a position that allows the NEMA cable to bend naturally without being overstretched or strained.

2..Leave enough clearance for the plug and outlet to stay

▶ For Hardwired Installation location & Requirements (Model IYILO-RA48)

1.Choose a mounting location that allows the included 2.3ft Liquid-tight conduit whip(Hardwired Version) to reach your junction box or breaker panel.

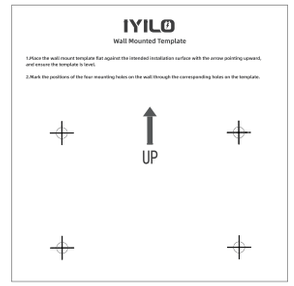
2.The bottom access port must be used. There is no rear-entry option.

3.Plan routing to avoid strain on the conduit and ensure a watertight connection at the entry point.

6.2 Mounting

Step 1

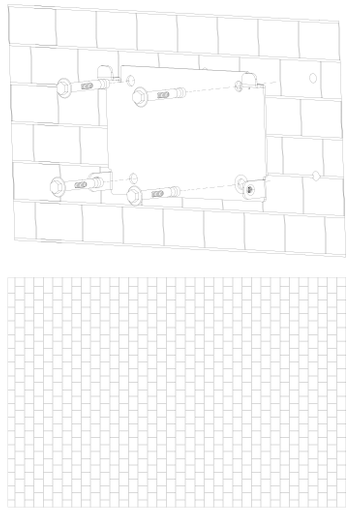
Place the mounting template (included in the product packaging) at the desired installation location. Use a level to ensure the template is straight. Mark and pre-drill the screw holes as indicated. Once complete, remove the template before proceeding with bracket installation.



Step 2

For brick or concrete walls

Use the 4 hexagonal expansion screws to attach the wall bracket securely



For drywall installation

Locate the wall studs using a stud finder.

For holes aligned with studs, use drywall screws only.

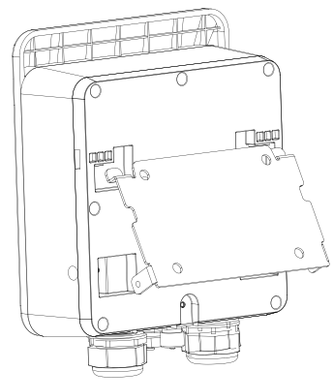
For holes without studs behind, use drywall anchors together with screws.

This ensures the bracket is securely fastened to both the wall and the supporting studs where available.

Step 3

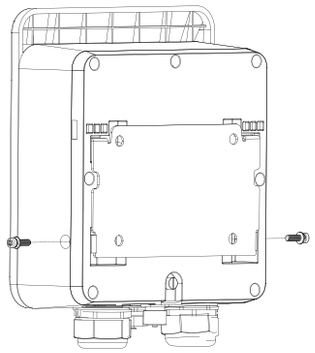
1. Align the rear mounting notches on the back of the charger with the corresponding hooks on the wall-mounted bracket.

2. Gently press the charger against the bracket and slide it downward until it locks securely into place.



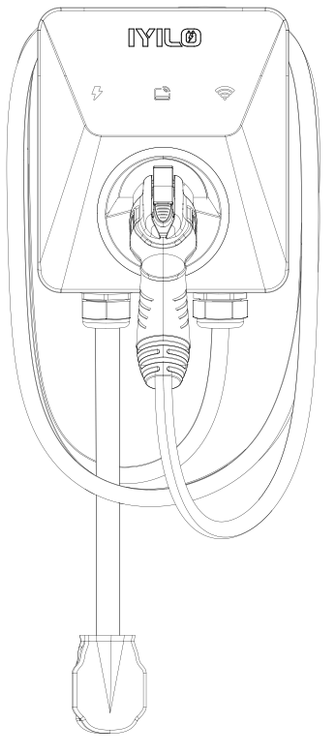
Step 4

1.Insert the Anti-Theft Countersunk Head Screws into the screw holes on the left and right sides of the bracket.
2. Use the included Allen wrench to securely tighten the screws, fastening the IYILO EV Charger firmly to the wall-mounted bracket.



Step 5

Once the EV charger is securely mounted, wrap the cable around the charger when not in use, and insert the charging plug into the holster.



7. Choose the Installation Method According to Your Version

WARNING

1. The IYILO EV Charger is a continuous load device. The dedicated circuit must be rated at 125% of the charger's maximum current to ensure safe and proper operation.
2. Integrated GFCI (CCID20) protection is included in all models.
3. Table (1) shows the minimum wire size needed for the circuit between the panel and the EVSE when installed in a raceway, based on NEC 310.15(B)(16). The actual wire size may need to be increased depending on temperature and cable length.

WARNING

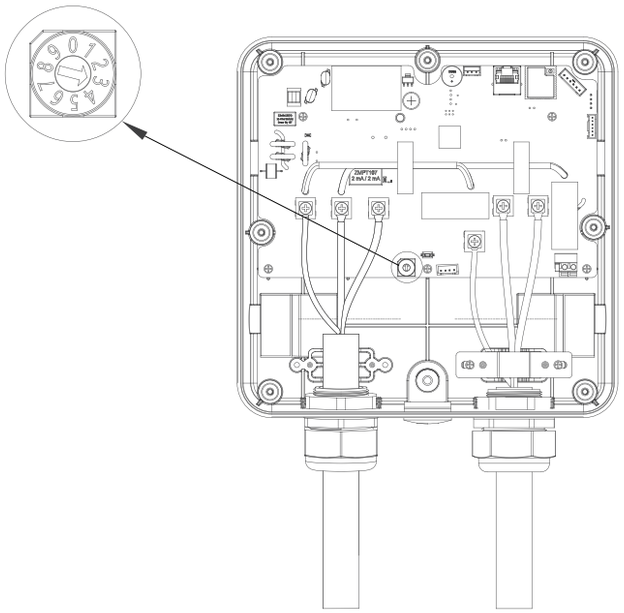
The IYILO EV Charger has built-in GFCI protection. Installing it on a GFCI-protected circuit can create double protection, which may cause nuisance tripping. Make sure to coordinate installation to meet safety requirements and avoid false trips.

Rotary Switch setting & Circuit Breaker option (IYILO-RA48)						
Rotary Switch Position	Charger Rating	Circuit Breaker Rating	Minimum Conductor Size (75C)AWG L1/L2	Minimum Equipment Grounding Conductor AWG	PLUG-IN	Hardwired
3-9	48A	60A	6AWG Copper	10AWG Copper	NO	YES
2	40A	50A	8AWG Copper	10AWG Copper	YES	YES
1	32A	40A	8AWG Copper	10AWG Copper	YES	YES
0	16A	20A	12AWG Copper	12AWG Copper	YES	YES
Rotary Switch setting & Circuit Breaker option (IYILO-RA40)						
2-9	40A	50A	8AWG Copper	10AWG Copper	YES	We do not recommend
1	32A	40A	8AWG Copper	10AWG Copper	YES	We do not recommend
0	16A	20A	12AWG Copper	12AWG Copper	YES	We do not recommend

Table（1）

7.1 Setting the desired output current

The IYILO EV Charger allows for adjustable maximum output current settings via the rotary switch on the mainboard, located behind the front cover.
Use a non-conductive tool to adjust the switch. Refer to the table（1）to select the appropriate setting number corresponding to your desired maximum output current.
For example, when the rotary switch is set to position 1, the maximum available charging current will be 32A. The same maximum current will also be reflected in the IYILO app.



Note

The Model IYILO-RA40 or IYILO-RA48 Plug-in Version has pre-set for default 40 amp out of the box which is the maximum amperage allowed by the regulation for NEMA14-50 Plug-in EV Charger.
The Model IYILO-RA48 hardwired version is pre-set to a default output of 48 amps and comes with a 3-wire whip enclosed in a non-metallic liquid-tight flexible conduit.

Tip: **Unless you plan to switch between plug-in and hardwired configurations, or need to lower the current due to circuit breaker limitations, no adjustment is necessary.**

7.2 Plug-In Version Installation

Note

The Model IYILO-RA48 and IYILO-RA40 Plug-in Version can supply a max of 40A.
1. The IYILO-RA48 plug-in EV charger is factory-set to a default charging current of 40 amps. Adjustable to 48A when hardwired.
2. The IYILO-RA40 plug-in EV Charger is factory-set to a default charging current of 40 amps, which is also the maximum for this Model.

WARNING

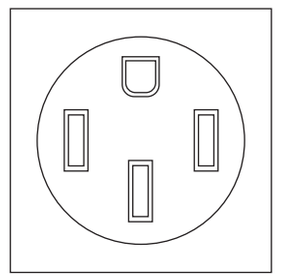
For safe operation, connect this charger only to a NEMA 14-50 receptacle that is EV-rated (industrial grade, suitable for continuous EV charging use).
Using a standard residential-grade outlet may cause overheating, damage to the plug and outlet, or fire hazards.

Model IYILO-RA40/ IYILO-RA48 plug-in EV Charger installation:

For a 40A or 48A plug-in version setup, use the appropriate NEMA 14-50 outlet and ensure it is wired correctly. Once installed, simply plug in the IYILO EV Charger.

NEMA 14-50 Circuit Requirements:

In both the U.S. and Canada, a NEMA 14-50 plug-in installation must be connected to a dedicated 50A double-pole circuit breaker in compliance with NEC 625 (U.S.) and CEC (Canada) requirements.
The IYILO-RA48 Plug-In version is factory-set to 40A, which meets the 125% continuous load rule (40A × 125% = 50A).



14-50

7.3 Hardwired Version Installation

Note

For hardwired installation, Model IYILO-RA48 is recommended.
Model IYILO-RA40 supports hardwiring at a maximum output of 40A

The following installation instructions are based on Model IYILO-RA48. Installation steps for Model IYILO-RA40 are identical unless otherwise specified

CAUTIONS

For the Model IYILO-RA48 hardwired version, the maximum charging rate is 48 amps. To support a 48-amp continuous charging load, a dedicated 60-amp double-pole circuit breaker is required in accordance with NEC guidelines.(See table 1 for reference).

WARNING

Electrical Hazard

1. Before installing the hardwired version, make sure to disconnect all power sources.
2. You must verify that there is no live current during any step of the installation process.
3. Always wear appropriate personal protective equipment (PPE) when installing a hardwired EV charger.

7.3.1 Hardwiring Version Instructions — Model: IYILO-RA48 Plug-In Version

When making the 48A plug-in EV Charger for hardwired installation, please follow the instruction below.

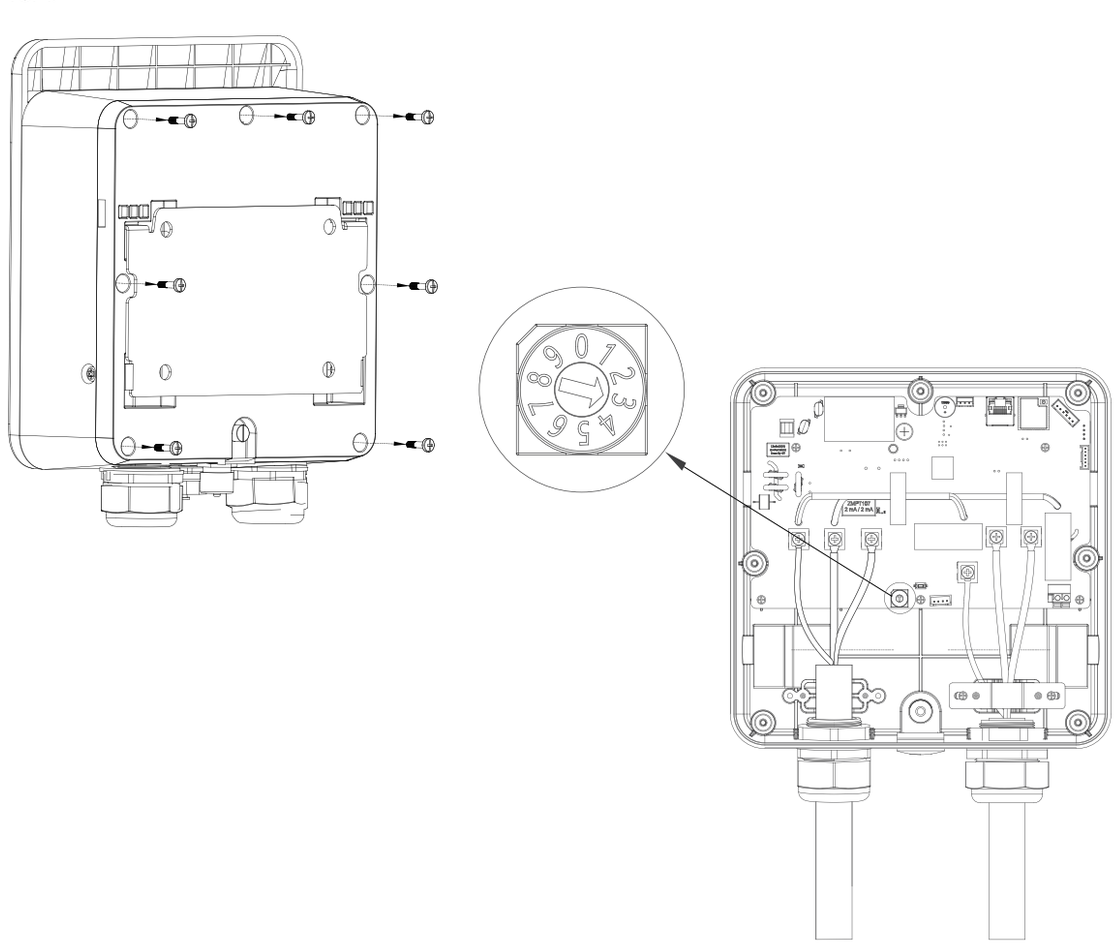
Note

If you wish to hardwire your 48A plug-in version, you will need to provide your own copper wires and conduit.

Step 1

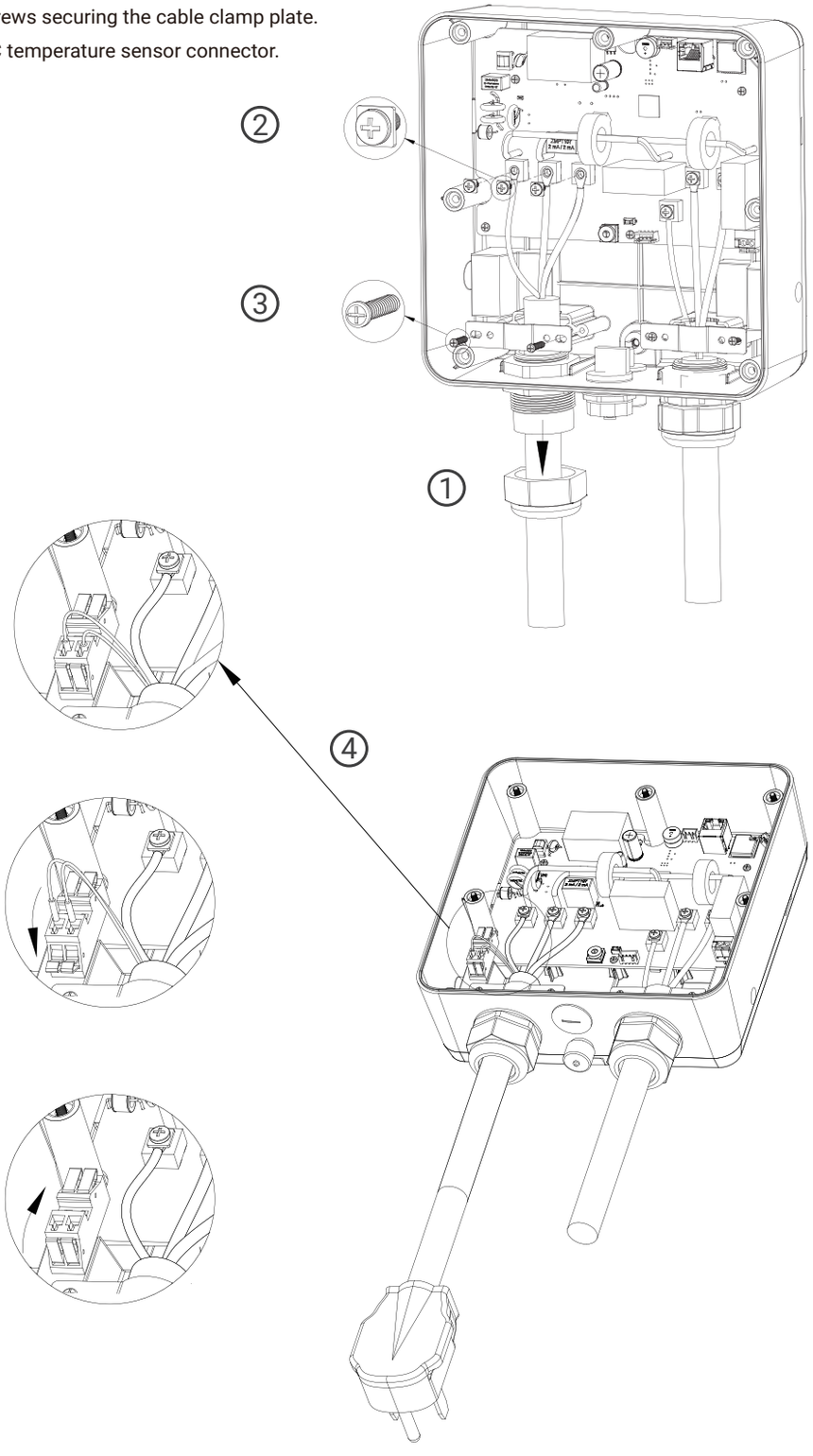
Turn off the power and remove the Original Input cable:

1. Shut off power at the main breaker panel.
2. Remove the front cover by unscrewing the 7 screws located on the bottom housing.
3. To enable 48A charging, change the Rotary switch from the default 40A setting to 48A.



4. To remove the input cable (NEMA 14-50 plug and cable):

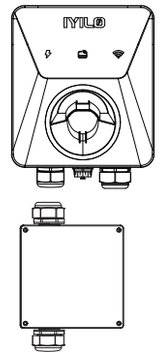
① Loosen the cable gland.
② Unscrew the three input terminal screws.
③ Remove the two screws securing the cable clamp plate.
④ Disconnect the NTC temperature sensor connector.



Step 2

Install Junction Box Near the Charger:

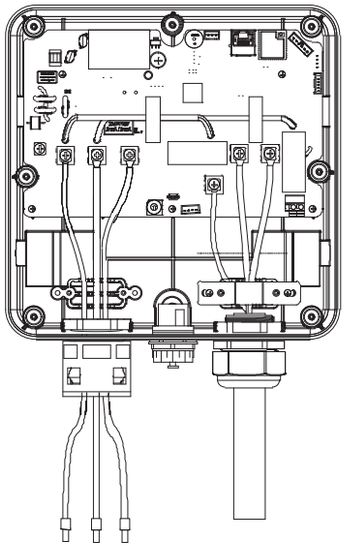
Mount a weatherproof or indoor-rated junction box within a short distance of the charger.(For proper installation, please consult a qualified electrician.)



Step 3

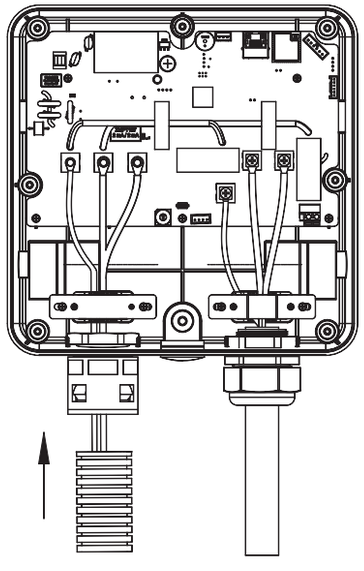
Wire to the charger:

1. Feed the 6 AWG THWN-2 copper wires through the conduit and connect them to the corresponding terminals as follows: L1 to L1, L2 to L2, and GND to the ground (GND) terminal. Tighten the L1/L2 input terminals to a torque of 1.2N·m (10.62 in·lbs).



Note

Use insulated M4 #8 ring terminals for 6AWG conductors or appropriate wire connectors to ensure safe and secure terminal connections.



2. Attach a AD34.5 Conduit Fitting (Included) to the EV charger's conduit entry port.

AD34.5 Conduit Fitting (Included)

3. Tighten the conduit fitting using an appropriate wrench. Ensure that the connection is watertight and firmly sealed to prevent moisture or dust ingress.

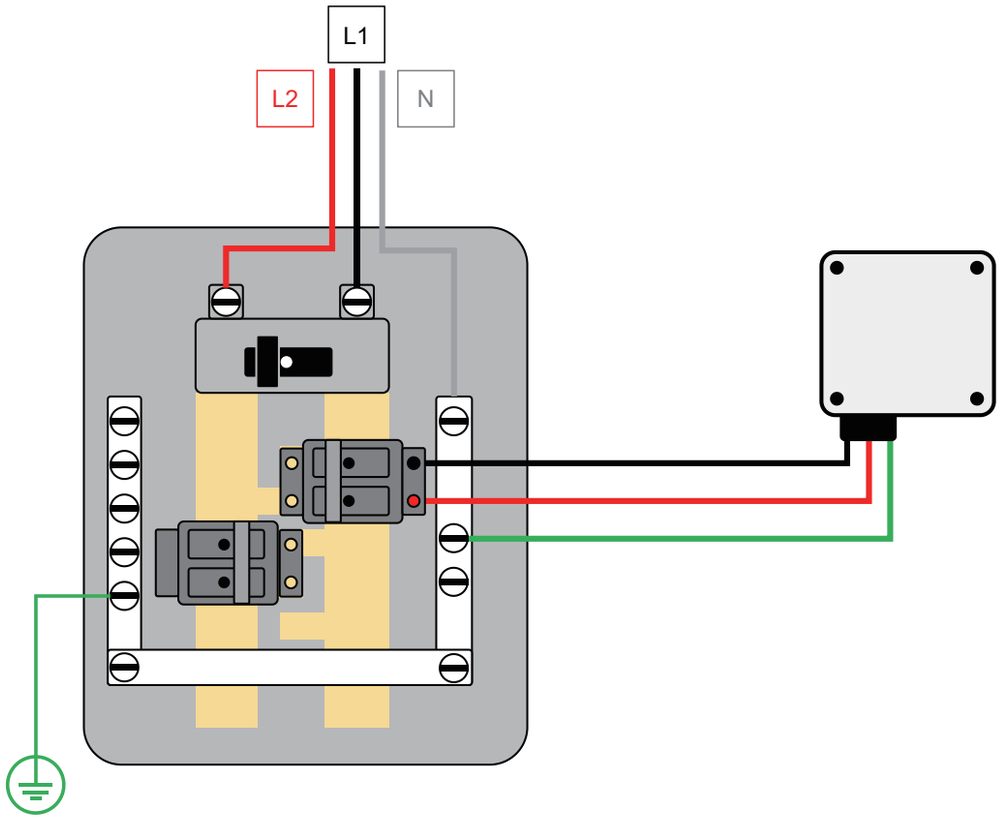
4. Connect an 1" liquid-tight conduit of suitable length to the conduit fitting and ensure the connection is secure.

Step 4

Run the wires from the breaker:

1. Route two hot conductors and one ground wire from a double-pole 60A circuit breaker(Connect the L1 lead to the grid L1, the L2 to L2, and GND lead to the grid GND ground bar) inside your electric panel to a junction box near the EV charger installation location.

⚠ WARNING：(This step must be performed by a qualified electrician.)



2. Conduit must be used for outdoor or exposed indoor installations to comply with NEC requirements.

Step 5

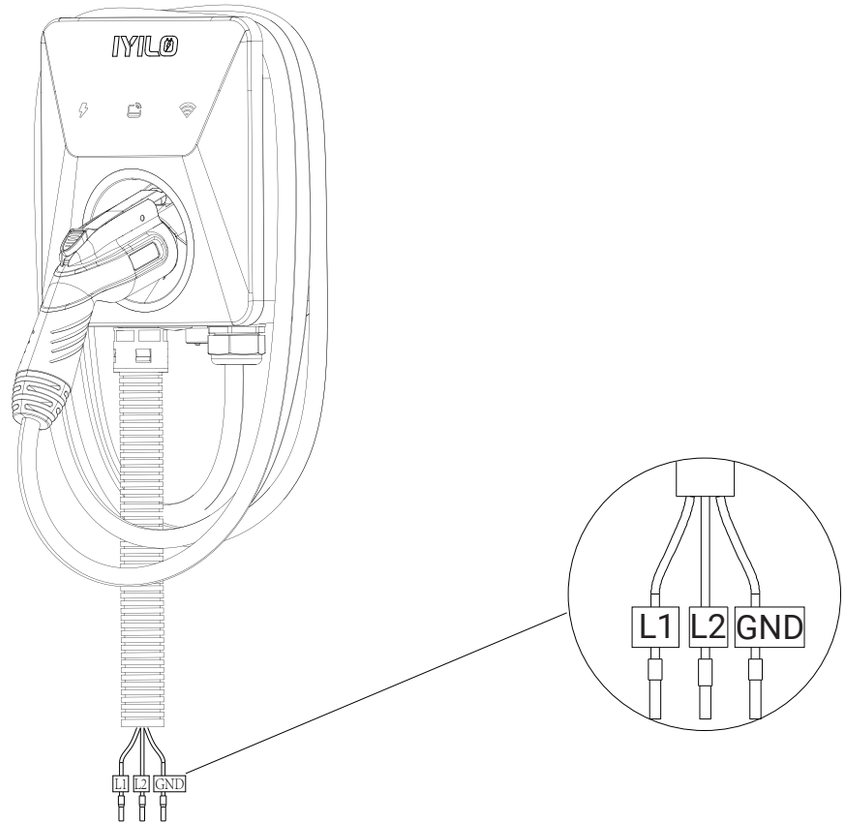
Connect to the junction box:

1. Inside the junction box, connect the wires from the circuit breaker to the corresponding wires from the EV charger:

① Hot Line 1 (usually black) from the breaker panel →to the L1 wire of the EV charger

② Hot Line 2 (usually red) from the breaker panel → to the L2 wire of the EV charger

③ Ground wire (usually green or bare copper) → to the GND (ground) wire of the EV charger



2. Use appropriately sized terminals and wire nuts to ensure they can handle the current for 6 AWG or equivalent conductors.

3. Verify all wire labels and colors match before completing the connection.

7.3.2 Hardwiring Instructions — Model： IYILO-RA48 Factory Hardwired Version

This section applies to the factory hardwired version of the 48A EV charger.
Please refer to the“7.3”above for detailed conduit connection, wiring steps,
and breaker sizing. Most procedures remain the same, with the following key differences:

Key Differences

▶ Skip Step1 and Step3

For the IYILO-RA48 Factory Hardwired Version, if your allowed maximum current is 48A, there is no need to adjust the rotary switch.
In addition, the unit comes factory hardwired with all necessary accessories included.

Ensure all wiring is performed in accordance with NEC code and local regulations.

8.Instruction For Use

8.1 Charging Step

Note

Ensure the EV charger is properly connected to the power supply.

1. Plug the connector into the vehicle’s charging port.
2. Start Charging：

(1) **Plug-and-charge:** By default, the charger operates in plug-and-charge mode, so you can start charging without using your phone.
(2) **Mobile App Control:** After the app and the charging station complete Bluetooth pairing, click Start Charging to begin charging. (Please refer to the app user guide for detailed instructions.)
(3) **RFID Control:** Card-Tapping charging function. (For details, please refer to the app instructions or section 8.2 About IYILO RFID Card.)
(4) **Scheduled charge:** If you have configured a charging schedule in the IYILO app, the charger will automatically start a charging session according to the set schedule.

3. Stop Charging

(1) When charging is started in plug-and-charge mode, tap the “Stop Charging” button in the mobile app to stop charging.
(2) When charging is started via RFID card, you can stop charging either by tapping the card again or by tapping the “End Charging” button in the mobile app.
(3) If charging is started through the app, tap “Stop Charging” in the app to stop charging.
(4) If the charging started by a scheduled session, tap the “Stop Charging” button in the mobile app to stop charging.

4. Unplug the connector and put it back in place.

WARNING

Do not disconnect the connector during charging. Otherwise, there is a risk of damage to the connector or Electric Vehicle Supply Equipment.

8.2 About IYILO RFID Card

IYILO RFID Card needs to be configured through the app.You will need to enter the card number in the app:

1. Open the app and click the avatar icon at the left upper corner
2. click "DEVICE Info".
3. Click "RFID Card".
4. Click "Add" and Enter the card number and account name.
5. Click "OK"
6. Configuration completed.

8.3 Download IYILO APP

Download on the App Store

GET IT ON Google Play

APP User Guide

9. Power Sharing (Load Balancing)

9.1 Feature Overview

The Power Sharing feature is a load balancing function that allows up to two IYILO EV chargers to share the available electrical capacity of a single circuit breaker.
The chargers evenly distribute the charging current to prevent breaker overload while maximizing charging efficiency.

Note

Power Sharing is only supported between two IYILO chargers and is recommended to be configured using the hardwired installation method for better stability and safety

WARNING

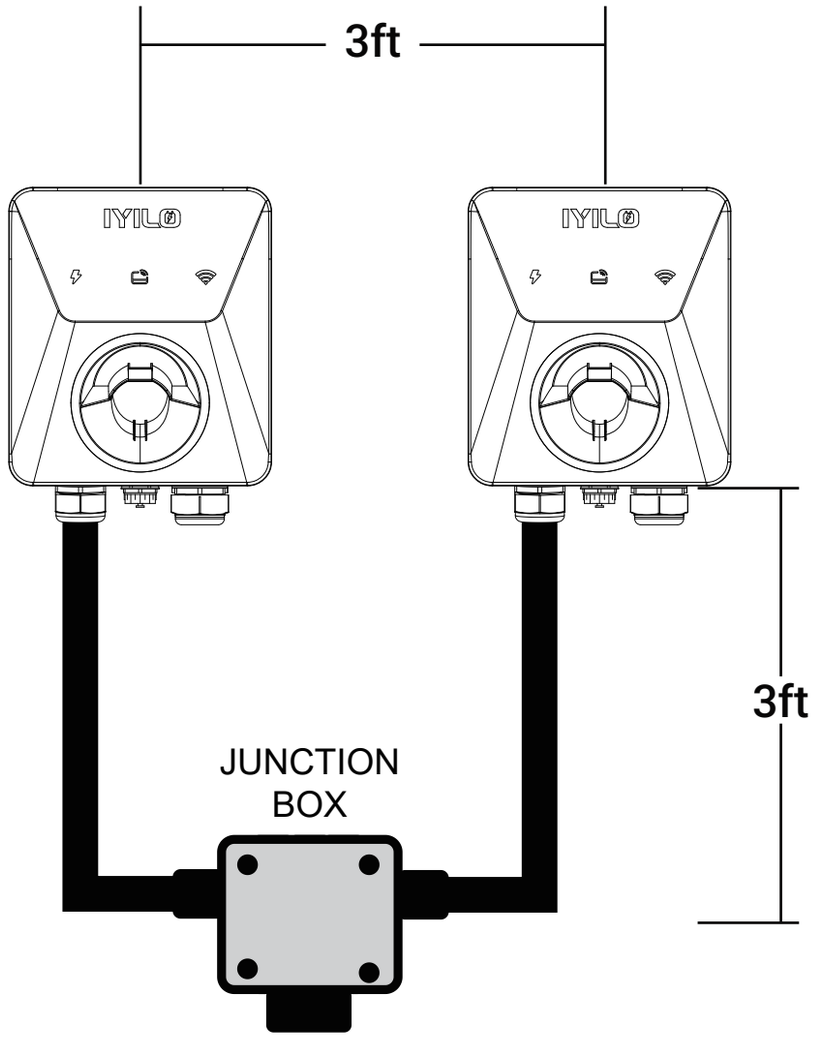
Disconnect Power: Before starting any hardwired installation, turn off the main power supply and confirm there is no live circuit in the installation area.

Qualified Personnel Only:

Hardwired installation must be carried out by a licensed electrician or qualified installer.

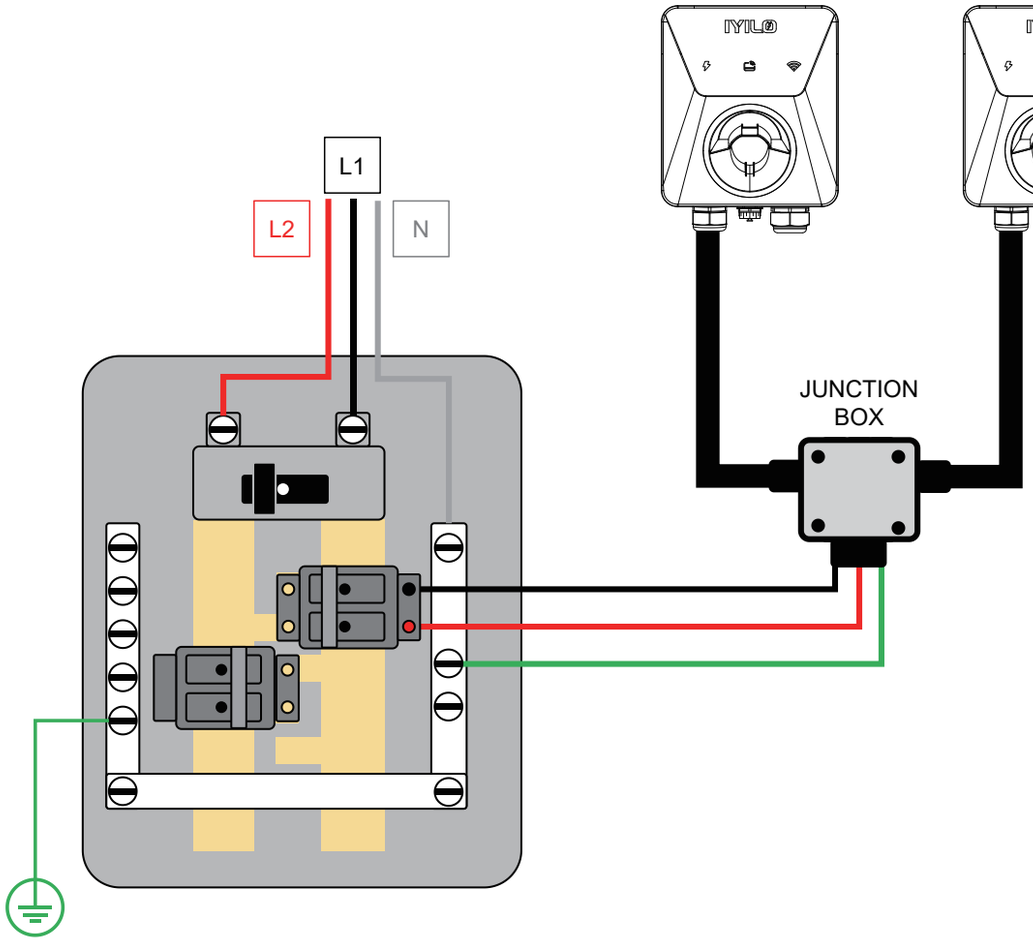
9.2 Installation Prepration

Please refer to the wiring connection method described in Section 7.3 for the installation of the charging station. Pay attention to the following points during installation:
1. Position both chargers so that the conduit can be routed into the junction box without stretching, bending excessively, or causing strain on the cable.
2. If the existing conduit length is insufficient for your installation location, use an approved junction box and additional wiring to extend the connection in compliance with local electrical codes.



9.3 Electrical Connections

1. Feed the power cables of both chargers into the junction box.
2. Inside the junction box, connect the L1, L2, and Ground wires from both chargers in parallel.
3. From the junction box, run a single set of L1, L2, and Ground wires to the same circuit breaker.
4. Select wire size according to the breaker rating:
Example: 60A breaker → 6 AWG copper wire
5. Ensure all terminal connections are tightened and properly insulated to prevent loosening or short circuits.



9.4 APP Configuration (Scan QR Code for APP user guide at 8.3)

1. After wiring is complete, restore the power supply.
2. Open the IYILO APP and navigate to the Power Sharing settings
3. Enter the maximum current required for the two chargers, so the system can automatically adjust charging current distribution.
4. Confirm that both chargers are connected via WiFi and display “Online” status.

9.5 When to Use the Power Sharing Feature

Power Sharing should be used when two IYILO hardwired chargers are connected to the same circuit breaker and the breaker’s capacity is lower than the combined maximum-charging demand of both chargers.

Example:
If the circuit breaker is rated at 60A, but each charger can draw up to 48A at full load (96A total), running both chargers at full capacity could overload the breaker. By enabling Power Sharing, the chargers automatically limit their combined output to the breaker’s maximum capacity (in this case, 60A), evenly distributing the current between the two chargers based on the set configuration.

10.Fault Description

Fault Type	Red LED Indicator Signal	APP Display Message	Recovery Method
Plug OTP	Solid Light	Charging is paused due to over-temperature protection of the NEMA14-50 plug. Threshold to stop charging: 95°C (203°F)	1. Check if NEMA plug is damaged. 2. Ensure the socket is an EV-dedicated outlet. 3. Wait for temperature to drop below 90°C. 4. If issue persists, contact support.
Meter Fault	Red LED: 1 flashes, 3s pause	Meter communication failure	1. Restart the charger 2. If the issue persists, contact after-sales support
CP Fault	Red LED: 2 flashes, 3s pause	Control pilot signal error at charging plug	1. Restart the charger. 2. If problem persists, contact support.
UVP	Red LED: 3 flashes, 3s pause	Input voltage of the charging station is below 90% of the rated value (187V)	1. Check if voltage is normal when not charging. 2. Turn off someheavy loads to see if charger works normally. 3. If voltage remains high, have an electrician check for phase imbalance on power supply side.
OVP	Red LED: 4 flashes, 3s pause	Input voltage of the charging station exceeds 110% of the rated value (264V)	1. Check if the voltage is normal when not charging. 2. Turn off some heavy loads to see if the charger operates normally. 3. If low voltage persists, have electrician check capacity.

Fault Type	Red LED Indicator Signal	APP Display Message	Recovery Method
OTP	Red LED: 5 flashes, 3s pause	Temperature of charging cable/charging station exceeds limit value Over temperature thresholds: Cable: 105°C Station: 85°C	1. Check if the charging station temperature is too high. 2. If temperature is high, wait for it to cool down; charging will resume automatically. 3. If temperature is normal but fault persists, contact aftersales support.
OCP	Red LED: 6 flashes, 3s pause	Charging current exceeds 110% of the limit Example: Current exceeds 52A (rated 48A)	1. Unplug the charging connector and check for foreign objects inside the plug. 2. After unplugging, check if the fault clears; if not, contact after-sales support.
Ground Fault	Red LED: 7 flashes, 3s pause	Abnormal grounding circuit of the charging station	1. Restart the charging station and perform self-check to see if the issue is resolved. 2. Have an electrician verify the grounding; if normal, please contact after-sales support.
Relay Fault	Red LED: 8 flashes, 3s pause	Charging station relay control fault	1. Restart the charging station and check if the fault is cleared. 2. Retry the sequence: start charging → stop charging → unplug the connector. If relay fault occurs, contact after-sales support.
RCD Abnormal	Red LED: 9 flashes, 3s pause	Charging station detected leakage current	1. Safely turn off the charging station input power. 2. Have an electrician investigate the cause of leakage. 3. If fault persists after inspection, contact after-sales support.

11. Warranty

11.1 Warranty Coverage Period

EVRA Energy ILC. ("EVRA") warrants this IYILO residential EV charger against defects in materials and workmanship for a period of three (3) years from the original date of purchase. This warranty is non-transferable and only valid for the original purchaser.

11.2 What Is Covered

If the IYILO charger experiences a malfunction due to defects in materials or workmanship under normal use and installation, IYILO will provide warranty service within the three (3) year coverage period, as follows:

1. Repair First
IYILO will first evaluate the issue and, if determined repairable, will provide the required parts and factory labor to restore the product to working condition.

2. Replace if Not Repairable
If the charger is found to be irreparable after diagnostic evaluation, IYILO will provide a replacement unit. The replacement may be a new, refurbished, or reconditioned product of equal function and value.

3. Warranty Continuation
The replacement charger or parts will inherit the remaining warranty period of the original product. No new warranty period will be issued for replacements.

11.3 What Is Not Covered

This limited warranty does not apply to:

1. Improper Installation or Usage:
Installed outside IYILO installation guidelines.
Operated beyond intended residential use or voltage range.
Inadequate wiring, or unstable power supply.

2. Environmental or External Damage:
Power surges, lightning, water intrusion, floods, fire, or pest damage.
Physical damage caused by vehicle collision or mishandling.

3. Unauthorized Repairs or Modifications:
Disassembly, alteration, or repair by anyone not authorized by IYILO.
Use of third-party accessories, parts, or software.

4. Normal Wear and Cosmetic Damage:
Scratches, discoloration, dents, or other non-functional appearance damage.
Normal aging of materials not affecting performance.

5. Missing/Altered Identification:
Tampered, missing, or unreadable serial number, label, or safety certification.

11.4 Warranty Claim Process

To initiate a warranty claim, please follow the steps below:

1. Contact IYILO Support Provide the following

- Description of the issue
- Product serial number
- Photo or error code (if applicable)
- Copy of original purchase receipt

2. Troubleshooting & Remote Diagnosis
IYILO support may attempt to help you troubleshoot the issue remotely via phone or email.

3. Product Evaluation
If required, IYILO may ask you to return the charger for inspection.
Customer is responsible for shipping the item to IYILO.
If the product is confirmed defective, IYILO covers shipping the repaired or replacement unit back to you.

4. Repair or Replacement
If repairable: IYILO will repair and return the unit.
If irreparable: IYILO will issue a replacement unit.

5. Non-Covered Cases
If the issue is determined to be outside of warranty coverage, the product will be returned to the customer as-is, or repairs may be offered at customer expense upon approval.

11.5 Limitation of Liability

IYILO shall not be held liable

Indirect, incidental, or consequential damages
Loss of data, vehicle damage, or business interruption
Any damages exceeding the purchase price of the product

IYILO makes no other warranties, express or implied, beyond those stated herein. No agent or reseller is authorized to modify this warranty.

11.6 Quick Reference Summary

- Warranty Term: 3 Years
- Applies To: Original purchaser only
- Coverage: Material/workmanship defects Repair or
- Replace: At IYILO's discretion
- Replacement Warranty: Continues from original term
- Not Covered: Misuse, weather, accidents, modifications
- Claim Requires: Proof of purchase & product info Shipping:
- Customer pays return, IYILO pays replacement

11.7 Need Help?

Contact IYILO Customer Service:

WHATSAPP: +1(213) 804-0158

EMAIL: SUPPORT@IYILO.SHOP

WEBSITE: WWW.IYILO.SHOP/CONTACT

Note

Please retain your proof of purchase and original packaging in case warranty service is needed. Only IYILO-authorized technicians are allowed to diagnose, repair, or approve replacement of any unit under warranty.

12.FCC Declaration

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:
This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Note: 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 the user will be required to correct the interference at his own expense.

WIFI module: Containing FCC ID:2AC7Z-ESPWROOM32UE

To satisfy FCC RF exposure requirements, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.

RF Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
To ensure safe operation and avoid RF exposure beyond the permissible limits:
The equipment should be installed and operated with a minimum distance of 20 cm (8 inches) between the radiator (antenna) and your body.
This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.