



Noodoe EV AC30P

User Manual



Dust and Water
Protection NEMA 3R



Authorization



Management



Easy
Maintenance



Easy Installation

CONTENTS

Introduction/User Experience /Noodoe EV Operating System (EV OS)/ Autonomous Revenue Generation	2
Pricing/User Management/Extensibility	3
1. Important Safety Instructions	4
2. Interface	6
2.1 Basic Interface	6
3. Dimensions	7
3.1 Main Size of Charger	7
3.2 Wall-Mounted Bracket	7
4. Specifications	8
5. Design Standards	9
6. Status Description of the Charger Indication Lights	10
7. Installation Instructions	11
7.1 Safty Requirements	12
7.2 Power Grid Connection and Grounding Type	12
7.3 Packing List	14
7.4 Tools and Materials Required	15
7.5 Wall-Mounted Bracket Installation Requirements	15
7.6 Installation Requirements	16
7.7 Steps for Installation	17
7.8 Wall-Mounted Bracket Installation	20
7.9 Gateway Installation	22
7.10 Gateway Installation Scenario	23
8. Charger Standard Setting	24
8.1 Time setting	24
8.2 Wi-Fi Setup	26
8.3 Re-checking the Wi-Fi Signal Strength on Power-Up	27
9. Activation Instructions	29
9.1 Activation Overview	29
9.2 Prior to Activation	30
9.3 Creating a Site	31
9.4 Adding Charging Stations	32
9.5 Taking Charging Station Photos	32
10. Operating Instructions	33
10.1 Charging Steps with the RFID Card	33
10.2 Charging Steps with the QR Code (Internet-Ready Model Only)	34
10.3 Error Handling	35
11. Federal Communication Commission Interference Statement	40
12. Industry Canada Statement	41
13. Maintenance	43
13.1 Daily Maintenance	43
13.2 Maintenance Spares	43

Introduction

Noodoe EV AC chargers offer convenience and efficiency to both customers and service providers. These charging stations feature simple installation and management. AC chargers are easy additions to any location and are highly requested by EV-driving customers. They are excellently suited to retail and commercial parking lots, workplaces, restaurants, multi-unit dwellings, and anywhere else looking to provide a smooth, convenient charging experience. Noodoe EV AC chargers are sturdy and can stand up to the elements. They are safety certified, and the design is both waterproof and dustproof. Install them anywhere without environmental concerns.

User Experience

The Noodoe EV AC charger is easy to engage with and use. It features a simple design to make charging a truly painless experience. Drivers need only scan, plug in, and charge. No annoying memberships or app downloads are necessary. Users can begin charging either through an authorized RFID smart card (perfect for office staff or apartment buildings), the Noodoe mobile app, or our online web portal.

Noodoe EV Operating System (EV OS)

Noodoe EV OS is a cloud-based operating system that unifies the management of all Noodoe EV charging stations. It centralizes charger operation and streamlines the administration of the entire charging network. The EV OS dashboard pulls together information from every connected charger, providing a wealth of information right at your fingertips. Revenue generation becomes practically hands-free as EV OS implements your chosen settings. It even runs charging station diagnostics and self-repair protocols, dramatically reducing the need for expensive maintenance and repairs.

Autonomous Revenue Generation

- Noodoe EV OS supports autonomous revenue generation by streamlining all aspects of EV charger management.
- Service providers have access to up-to-the-minute data on usage, monetization, power status, and more.

- Noodoe EV AC chargers support universal, automatic pay-at-the-pump transactions through Apple Pay, Google Pay, credit cards, or the membership management program in Noodoe EV OS.
- Funds automatically transfer to the management-designated account.

Pricing

- Connect chargers from multiple sites to a shared network in Noodoe EV OS, enabling pricing changes right from the EV OS dashboard.
- Change pricing and availability on the fly or via pre-set, automated schedules with the click of a button.
- Set pricing based on either time taken (price per minute) or energy usage (price per kW).
- Enjoy set-it-and-forget-it automatic peak hour price changes.

User Management

- Chargers can offer multiple pricing tiers through EV OS's integrated user management system.
- Users can make payments through at-the-pump mobile transactions or targeted membership plans for VIPs, special guests, residents, or staff.
- Membership management allows for charging to be available to a select few as a free amenity while still requiring payment by the wider public.
- Integrated user management is ideal for staff and fleet charging, leaving unused chargers available for public use.

Extensibility

- Noodoe EV offers additional software services specially developed for a wide range of charging environments, including those for fleets, workplaces, residences, shopping centers, dealerships, gas stations, smart cities, and more.
- To support the different needs of our customers, Noodoe EV AC chargers support intelligent load balancing, distributing power across multiple chargers on the same network.
- Noodoe EV load balancing means more chargers can be installed on the same site without costly site upgrades.

1. Important Safety Instructions

Please read all Important Safety Instructions as well as charging instructions in your vehicle owner's manual before attempting to charge your electric vehicle. Failure to do so can result in severe injury or death. Save this user manual for future reference. There are many safety features built into the charger. Read all the safety information and warnings in this manual to be avoid any risks or hazards and risks associated with using this charger.



Warning

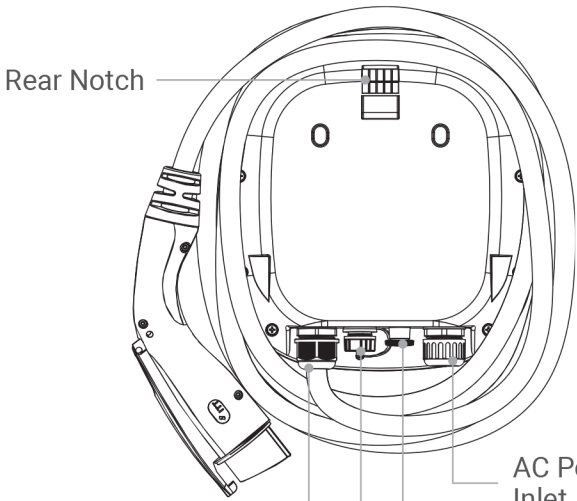
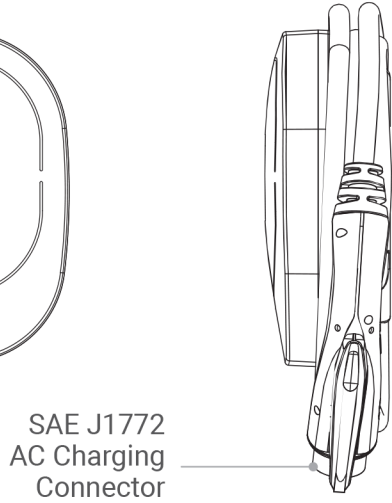
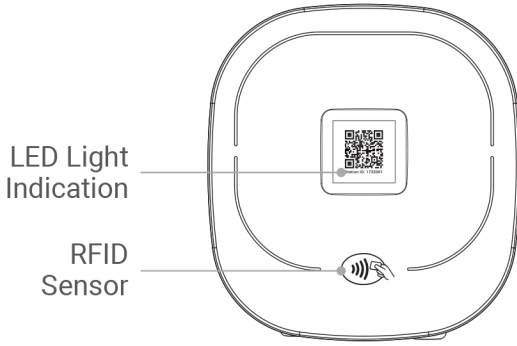
When using electric products, basic precautions should always be followed. This manual contains important instructions, including the following, that must be followed during installation, operation and maintenance.

- Do not install or use the charger near flammable, explosive, corrosive, or combustible materials, chemicals, or vapors.
- Turn off the input power of the charger before performing any maintenance to the charger.
- The device is designed only for vehicles that are compatible with the SAE J1772 charging standard.
- Do not use the charger if it is defective, appears cracked, frayed, broken or damaged.
- Do not attempt to open, disassemble, repair, tamper with, or modify the charger. Contact our Customer Service department if you have any questions or require any parts replacements or repairs.
- Do not use the charger when you are, the vehicle is, or the charger is exposed to severe rain, snow, or other severe weather.
- When transporting the charger, handle it with care. Do not drag, or step on the device.
- Do not touch the charging connector terminal with any sharp metallic objects to prevent damage.
- Do not forcefully pull the charging cable, damage it with sharp objects, put fingers, or insert foreign objects into any part of the charging connector.

- Risk of explosion. This device has arcing or sparking parts that should not be exposed to flammable vapors.
 - Risk of electric shock. Do not remove the cover or attempt to open the enclosure of this device. There are no user-serviceable parts inside. Contact a qualified service company if you require any service repairs.
 - To reduce the risk of fire, connect only to a circuit provided with 60 amperes maximum branch circuit overcurrent protection in accordance with the national Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part I, C22.1
 - This charger should be installed, adjusted, and serviced by a qualified electrician or a person familiar with the construction and operation of this type of charger and the dangers involved. Failure to observe this precaution could result in damage to the charger or even severe injury or death.
 - Incorrect installation and testing of the charger could potentially damage either the vehicle's battery or the charger. This type of damage is not covered by our warranty policy.
 - Ensure that the charging cable is well-positioned during the charging process to avoid the cable getting stepped on, tripped over, or subjected to damage or stress.
 - Do not use this charger with a frayed charging cable with damaged insulation or any other sign of damage.
 - Ensure the wire type, diameter, current rating, and temperature rating comply with the local electrical standards and requirements in your local area.
 - Before starting the installation, turn off all power.
 - For Permanently connected equipment, Protective grounding and bonding terminals - Field wiring terminals for connection of equipment-grounding conductors are identified by: "G," "GR," "GND," "Ground," "Grounding" or the ground symbol or on a wiring diagram provided on unit, or a marking on wiring diagram attached to the unit.
- * This device should be supervised when used around children.
- * Do not put fingers into the electric vehicle connector.
- * The device is not to be lifted or carried by either the flexible cord or the EV cable.

2. Interface

2.1 Basic Interface



Charging
Cable Inlet

RJ45
Cable Inlet

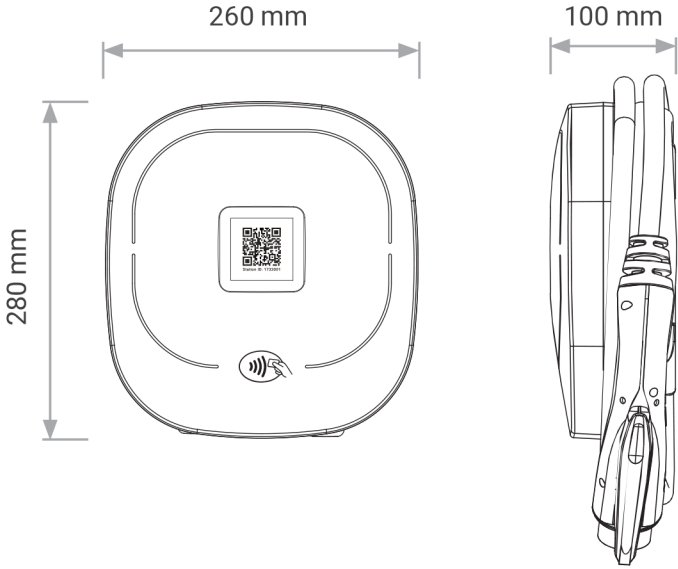
Emergency Button



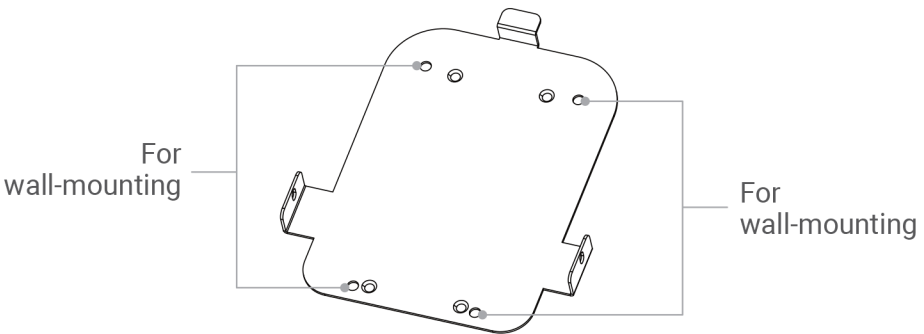
Please push the button
in case of emergency.

3. Dimensions

3.1 Main Size of Charger



3.2 Wall-Mounted Bracket



4. Specifications

Model Name	AC30P
Rated Input Voltage	200-240 Vac, 1-phase
Rated Output Current	1-phase, 32 A
AC Power Frequency	50/60 Hz
Input Protection	UVP, OVP, RCD, SPD, Ground Fault Protection
Output Protection	OCP, OTP, Control Pilot Fault Protection
Output Interface	SAE J1772 AC Charging Connector
Storage Temperature	-40 °C to +70 °C
Operation Temperature	-30 °C to +50 °C
Relative Operation Humidity	95% RH maximum
Relative Storage Humidity	95% RH maximum
User Authorization	RFID (ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™, Mifare), ISO15118
RFID Authorization	LAN Version or Wi-Fi Version
RJ45 Cable Inlet ^{*1}	10 M/100 M Base-T
Wi-Fi Function ^{*2}	802.11 b/g/n
Cable Length	5 m / 16.4 feet (From charger's body to lower edge of charging connector)
Protection Level	NEMA 3R
Installation Type	Wall-Mounted / Pedestal
Altitude	≤ 2000 m
Weight	4 ± 0.5 kg
Dimensions	265 (W) x 280 (D) x 100 (H) mm
Status Indication	Red, Green, Blue, and White LED
Certifications	UL, cUL, FCC

^{*1} LAN Version or Wi-Fi Version

^{*2} Wi-Fi Version

5. Design Standards

Safety Standards

UL2594: Electric Vehicle Supply Equipment

UL 2231-1: Personnel Protection Systems for Electric Vehicle (EV)

Supply Circuits: General Requirements

UL 2231-2: Personnel Protection Systems for Electric Vehicle (EV)

Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems

UL 2251: Plugs, Receptacles and Couplers for Electric Vehicles

UL 62: Flexible Cords and Cables

UL 991: Tests for Safety-Related Controls Employing Solid-State Devices

UL 1998: Software in Programmable Components

NFPA 70 Article 625: National Electrical Code, Electric Vehicle Charging System

UL840: Clearance and Creepage

6. Status Description of the Charger Indication Lights

6.1 With Internet

LED status	Standby	Charging	Charging Completed	Charging Abnormal
Blue	-	-	-	-
Green	-	-	-	-
Red	-	-	-	Light on Flashing
White	Light on	Dimming	Light on	-

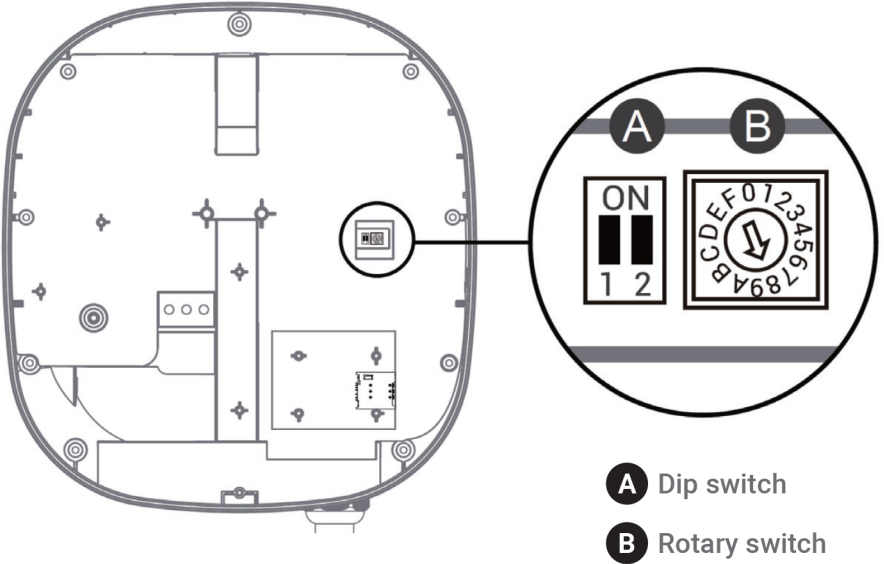
6.2 Without Internet

LED status	Standby	Charging	Charging Completed	Charging Abnormal
Blue	-	-	-	-
Green	-	-	-	-
Red	-	-	-	Light on Flashing
White	-	Dimming	Light on	-
Yellow	Light on	-	-	-

7. Installation Instructions

7.1 Safety Requirements

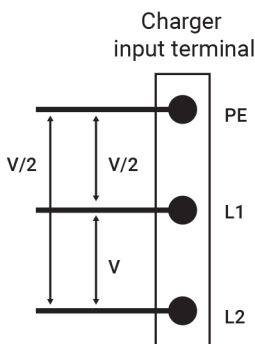
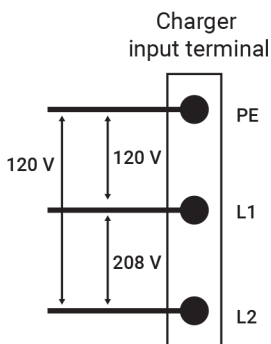
- Read this user manual thoroughly and make sure to review all local building and electrical codes before installing the AC charger.
- A qualified technician should install the AC charger according to the user manual and local safety regulations.
- Use appropriate protection when connecting to the main power distribution cable.
- Type B, C or D breaker with a rating current of 40 Amp should be installed in the upstream AC distribution box.



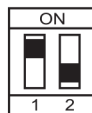
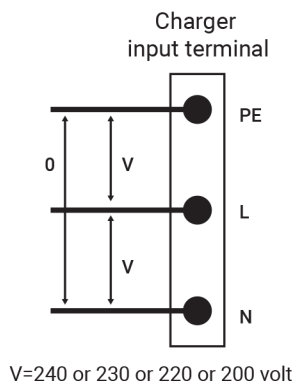
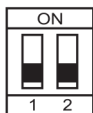
7.2 Power Grid Connection and Grounding Type

- This AC charger supports different power grid connections and grounding types. You can configure through the setting dip switch. Setting methods are shown below.
- Before setting the dip switch, make sure the input power is turned OFF.
- Use a non-conductive object to set the dip switch.

	Switch 1 (Power Grid Type)	Switch 2 (Grounding System)
ON	LN	IT
OFF	LL	TT-TN



V=240 or 220 or 200 volt



* Note 1: The default value in North America and Japan is (LL / TT-TN).

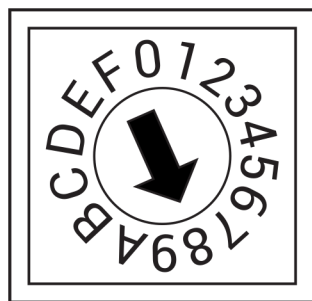
* Note 2: The default value for other regions is (LN / TT-TN).

* Note 3: If it is not the above standard grid type, please contact our technical staff for assistance and confirmation.

Maximum Output Current

This AC charger can support different maximum output currents through the settings rotary switch. Setting methods are shown below:

- Before setting the rotary switch, make sure the input power is turned OFF.
- Use a non-conductive object to set the rotary switch.



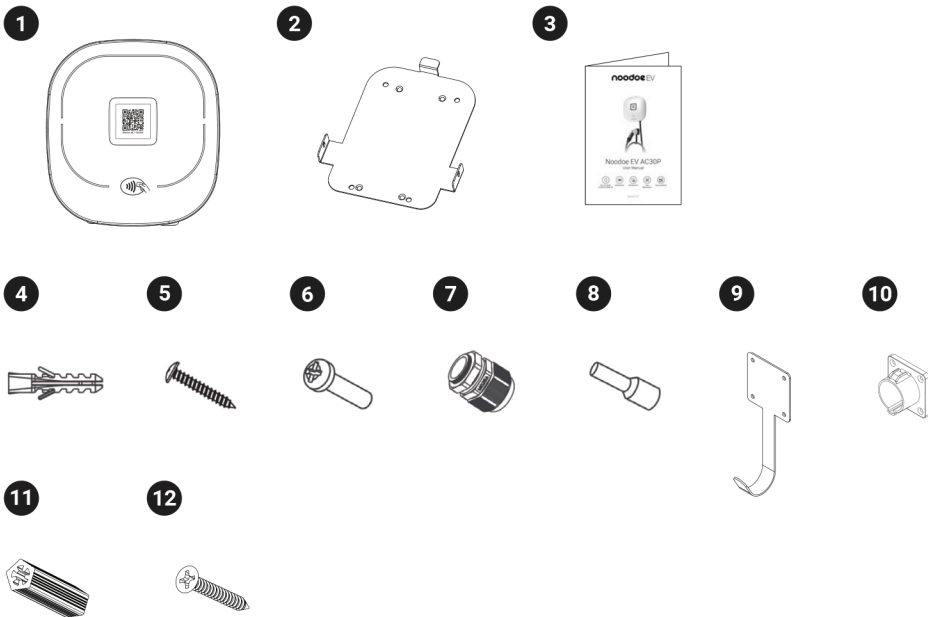
Switch Setting Number	0	1	2	3	4	5	6	7
Maximum Output Current	Test Mode	6 A	8 A	10 A	13 A	16 A	20 A	25 A

Switch Setting Number	8, 9	A	B-E	F
Maximum Output Current	32 A	30 A	Invalid Setting	Slave Mode

* Note 4: The default value for Japan is 30 A.

* Note 5: The default value in other countries is 32 A.

7.3 Packing List



No.	Product Name	Quantity	Note
1	AC Charger (with Charging Cable)	1	
2	Wall-Mounted Bracket	1	
3	User Manual	1	
4	Expansion Screws (Grey)	4	
5	M6 Self-Tapping Screws	4	
6	M4 Screws	2	
7	M25 Cable Gland	1	
8	Needle Terminals	3	
9	Hook	1	
10	Resting Socket	1	
11	Expansion Screw Anchors (Green)	4	
12	Self-Tapping Screws	4	

7.4 Tools and Materials Required

Tools required for installing the charger onto the wall-mount bracket are:

- Wire stripper
- Crimpers for ring terminals
- Phillips screwdriver for M4-M6
- Voltmeter or digital multimeter (for measuring AC voltage at the installation site)
- The inserting cable should meet the best waterproof performance. It is recommended to use a 3 core AWG # 8 or 8 mm² cables (XLPE-90 °C, THHN-90 °C, or equivalent) to pull the cable from the distribution box. The maximum outer diameter of the cable should be 13 mm - 18 mm.
- Level ruler
- Pencil or marker
- Machine drill

7.5 Wall-Mounted Bracket Installation Requirements

- Before installing the wall-mounted bracket, you confirm that the loading capacity of the wall can support a weight of 36 kg. When installing on a cement wall, you can use the included expansion screws to install the bracket and use a cement drill to drill holes in the cement wall (Ø8 mm). Space holes to match those on the “**3.2 Wall-Mounted Bracket**”.
- When installing on a wooden wall, use the included M6 self-tapping screws to install the wall-mounted bracket. Use the back-mounted backplane to lock and install the bracket onto the wall.

7.6 Installation Requirements

To determine the best position for the wall-mounted component, first clarify the parking position for the vehicle to ensure that the charging connector can be inserted into the vehicle's charging inlet.

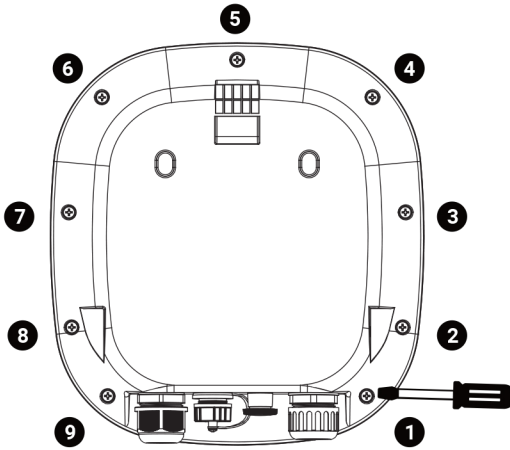
Wall-mounted components should be located:

- In an enclosed garage, usually on the side matching the vehicle charging inlet.
- In a well-ventilated area. Avoid installing in closed boxes or near exothermic chargers.
- 1.2 meters or 4 feet off the ground.
- 250 mm (10 inches) from any obstacles to allow cables to loop around the holding hooks and to allow access for maintenance.

7.7 Steps for Installation

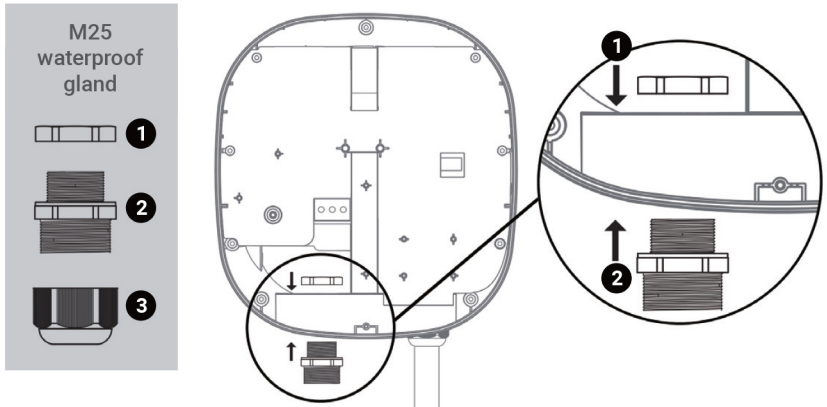
STEP 1

Use a screwdriver to loosen the 9 screws on the rear of the charger. Remove the front cover.



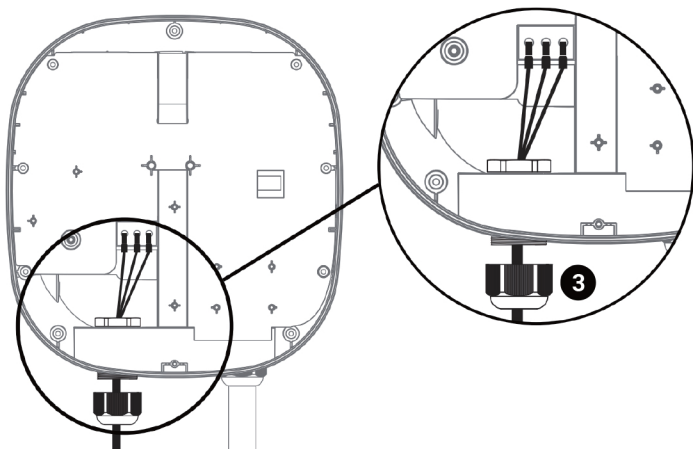
STEP 2

Lock the M25 waterproof gland by securing part 1 and part 2 in the mounting hole.



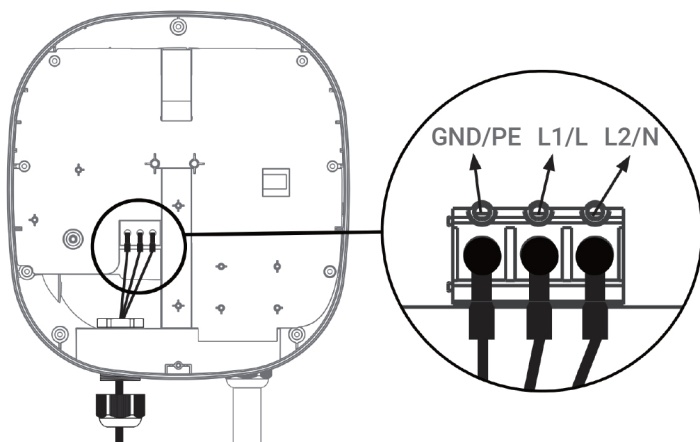
STEP 3

Strip 15~18 mm of the insulation sheath from the three AC wires. Take out the included needle terminal and install the needle terminal on the three GND/PE, L1/L, L2/N wires. Pass the three wires through the M25 waterproof gland Part 3.



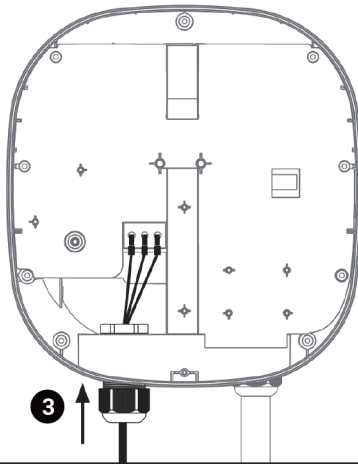
STEP 4

Insert the three wires into the wire holes of the green terminal block. Connect them to the corresponding GND/PE, L1/L, L2/N and lock them in place. The recommended screw torque is 1.5 N·m (13.3 lb-in).



STEP 5

After finishing, lock the M25 waterproof gland Part 3, affix and tighten 9 screws on the front cover after the front cover is put back, the recommended screw torque is 0.7 N.m (6.2 lbf.in).



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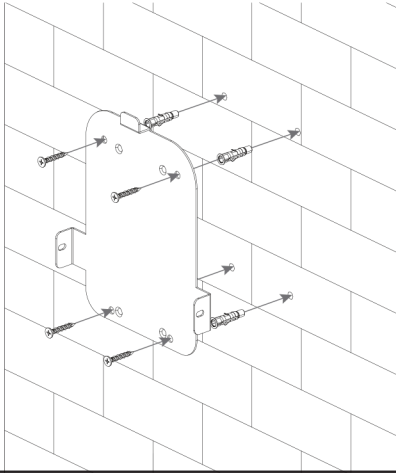
☎ Phone: (813) 314-7617

✉ E-mail: sales@powertechnologysolutions.net

7.8 Wall-Mounted Bracket Installation

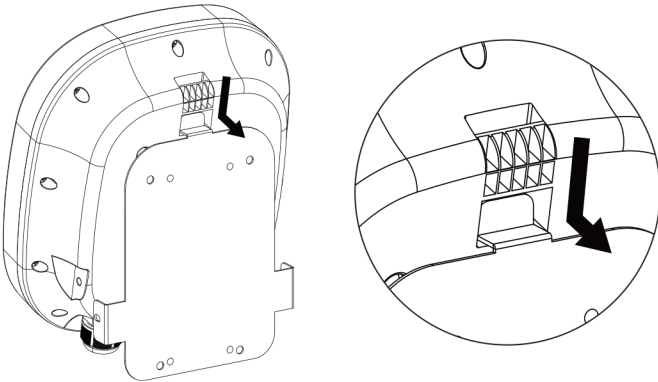
STEP 1

Use the 4 sets of expansion screws and M6 screws to attach the wall mounted bracket to the wall.



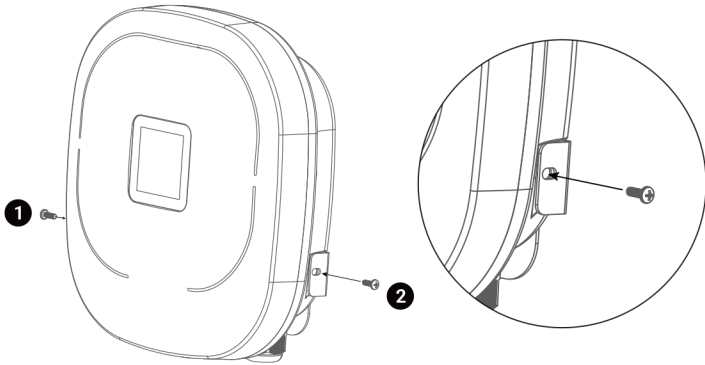
STEP 2

First align the rear notch of the charger into the wall-mounted bracket, and then align the screw holes on the right and left sides.



STEP 3

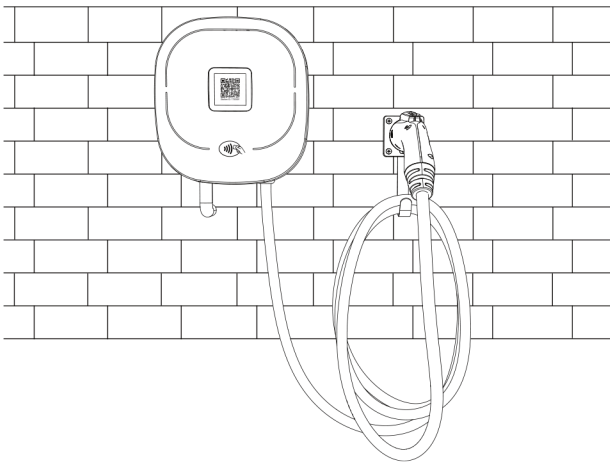
Secure the charger in place using two M4 screws to complete the installation.



View after installation

Wall-mounted cable hanging

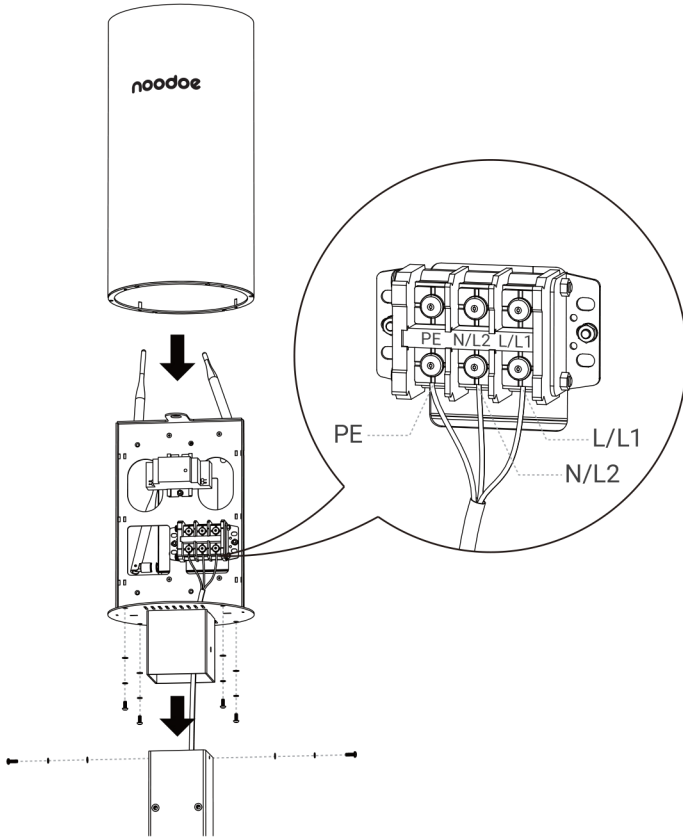
1. Place the resting socket into position and mark the points where you want to insert the screws.
2. Drill the four screw holes in the corresponding points.
3. Insert the expansion screw anchor in each screw hole and place the resting socket and the hook into position.
4. Tighten the four self-tapping screws to complete the installation.







7.9 Gateway Installation

For consistent internet access, we recommended using the Noodoe Gateway G100 (please contact Noodoe to purchase).

7.9.1 Mounting on the pedestal

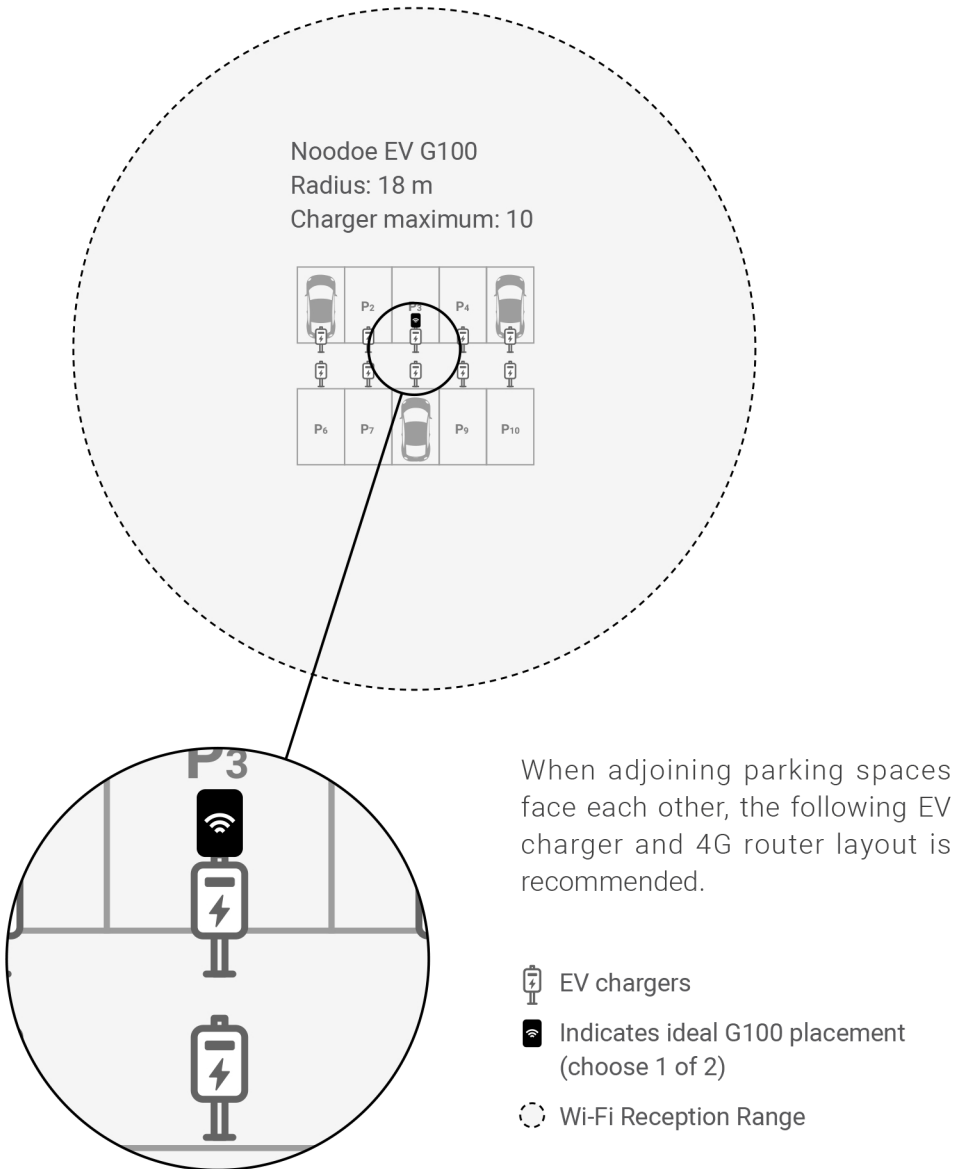


No.	Part	Name of Part	Unit
1		M4*12 Cross recessed binding head screws	2
2		M4 Plain washers	6
3		M4 Spring washers	6
4		M4x10 Hex Drive Screws	4

7.10 Gateway Installation Scenario

As different installation environments may affect connection quality, we highly recommend thorough consideration of the installation site layout prior to installation. The proper layout will help prevent suboptimal connection quality or disconnection issues.

Best receiving range: radius 18 m (60 feet).



8. Charger Standard Setting

8.1 Time setting

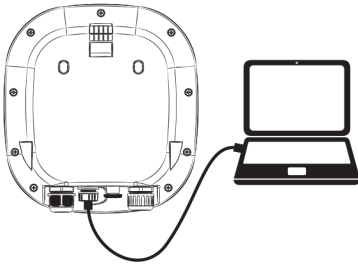
Automatic setting :

The time will be adjusted automatically when the charger connects to the internet.

Time server :

- time.windows.com
- cn.ntp.org.cn
- tock.stdtime.gov.tw

Note: Firewall and network environment may influence the time server connection.



Step 1

Connect the RJ45 cable to the charger.
Connect the RJ45 cable to the notebook.

Step 2

Change the IP Address on your laptop computer by accessing the network card settings. Change the TCP / IP automatic IP to fixed IP.

- IP Address: 192.168.1.1
- Subnet Mask: 255.255.255.0

Use the following IP address:

IP address:

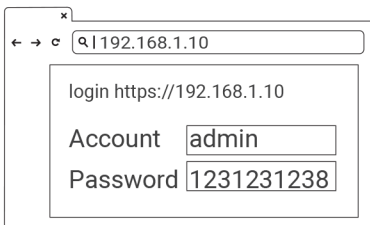
Subnet mask:

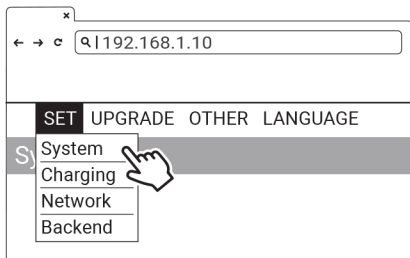
Default gateway:

Step 3

Open a browser and enter IP Address 192.168.1.10 to login into the setup page. Use the following credentials to login.

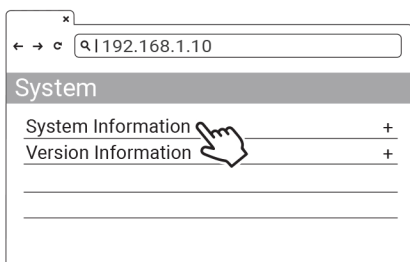
- Account: admin
- Password: 1231231238





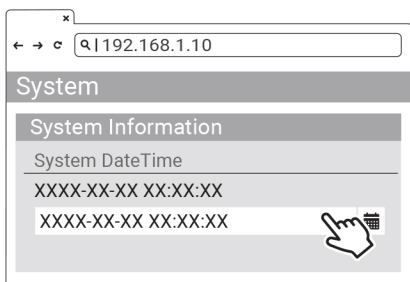
Step 4

Select "SET" at the top of the webpage to enter the settings page. Select "System" to enter the time settings page.



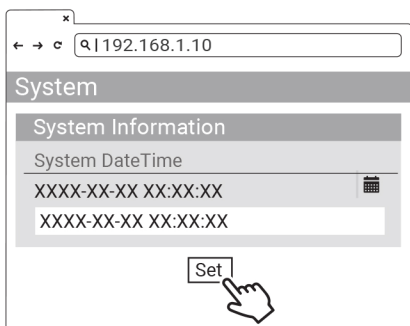
Step 5

Click "System information".



Step 6

Click system date time.
Click the calendar graphic on the right to set the current time.



Step 7

After the settings are complete, click SET and wait until the setting completion window appears.

For the Networking Edition, restart the charger.

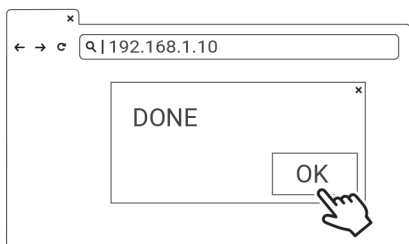
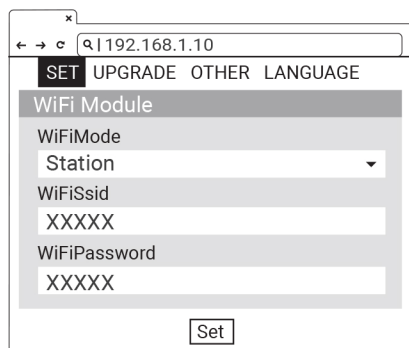
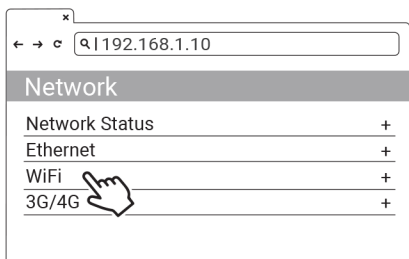
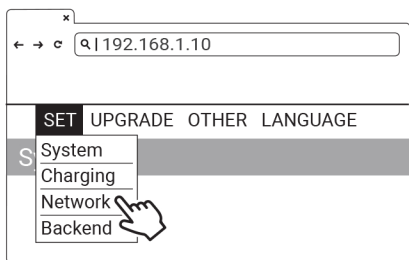
For Wi-Fi and 4G versions, continue to step 8.2 or 8.3 to complete the settings process.

8.2 Wi-Fi Setup

Note: If the junction box is installed (section 7.9), no further steps below are required.

Tools required before setting:

- Notebook with RJ45 interface x 1
- One RJ45 cable connector is male to male x1



Step 1

Select "SET" at the top of the webpage to enter the settings page. Select "Network" to enter the network settings page.

Step 2

Select Wi-Fi to enter the Wi-Fi Module settings page.

Step 3

Keep the Wi-Fi Mode set to "Station" and enter the Wi-Fi SSID name and the Wi-Fi password. Save settings by selecting "Set".

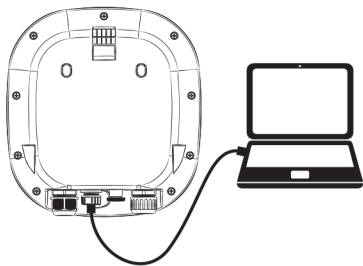
Step 4

After completion, click SET and wait until the setting completion window appears. Restart the charger.

*For other settings (such as OCPP, etc.), please contact our professional staff.

8.3 Re-checking the Wi-Fi Signal Strength on Power-Up

After restarting the charger, check the connection signal strength. The RSSI (Received Signal Strength Indication) should be higher than -65 dBm. If the value is lower, you may experience a weak Wi-Fi signal connection or even disconnection. The cause could be interference.



Step 1

Connect the RJ45 cable to the charger.
Connect the RJ45 cable to the notebook.

Step 2

Change the IP Address on your laptop computer by accessing the network card settings. Change the TCP / IP automatic IP to fixed IP.

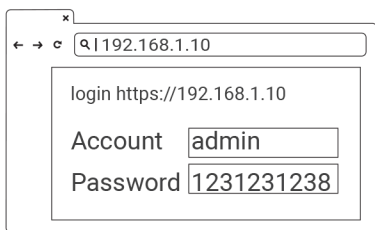
- IP Address: 192.168.1.1
- Subnet Mask: 255.255.255.0

Use the following IP address:

IP address:

Subnet mask:

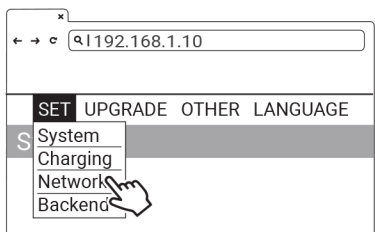
Default gateway:



Step 3

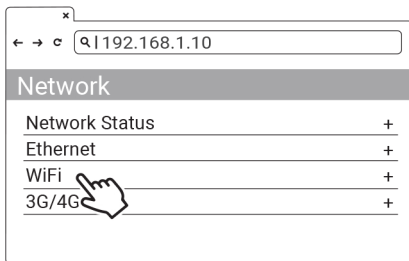
Open a browser and enter IP Address 192.168.1.10 to login into the setup page. Use the following credentials to login.

- Account: admin
- Password: 1231231238



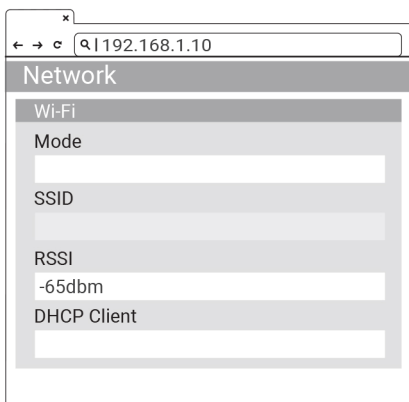
Step 4

Select "SET" at the top of the webpage to enter the settings page. Select "Network" to enter the network settings page.



Step 5

Select the Wi-Fi and 3G/4G module to enter the setting.



Step 6

Make sure the Wi-Fi strength is higher than -65 dbm.

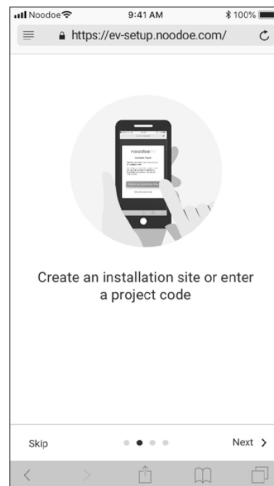
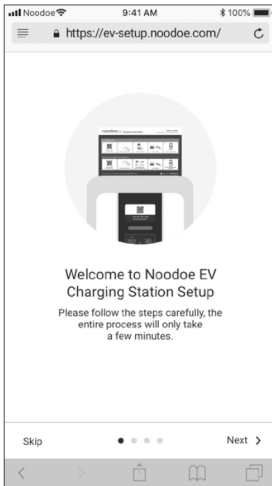
9. Activation Instructions

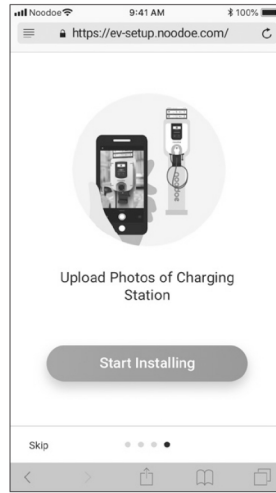
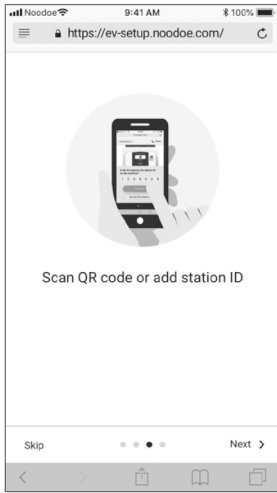
9.1 Activation Overview



Prior to activation, make sure to collect the necessary information for the site and charging station owner. Each charger has a visible Station ID QR code on it.

- Scan the QR code to begin the activation process through our web portal.
 1. Enter the project code provided by Noodoe or your Charge Point Operator. If you do not have one, create a site. (see 9.3)
 2. Confirm or add station ID. (see 9.4)
 3. Upload photos of the charging station. (see 9.5)





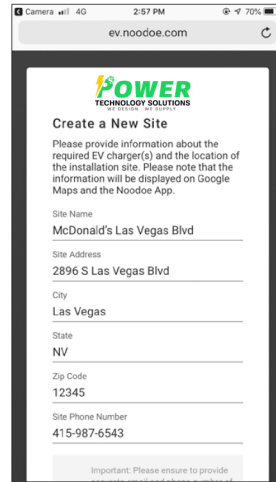
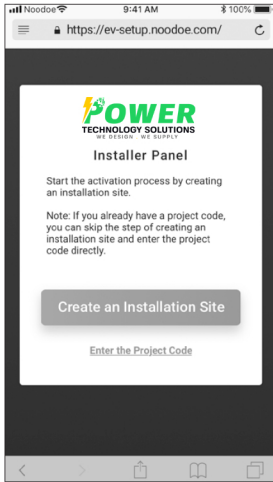
9.2 Prior to Activation

Before starting, collect the following information:

- Site Details
 1. Address
 2. Phone number
- Charging Station Owner's Credentials
 1. Full name
 2. Email address
 3. Phone number
- NOTE: The Charging Station Owner is responsible for setting prices, collecting revenue, and ensuring that the subscription service to Noodoe EV OS is paid for.

9.3 Creating a Site

If you have a project code provided either by Noodoe or your charge point operator, use that to begin the process. If there is no code, choose “Create an Installation Site” to begin activation.



Site & Owners Information

- To finalize site creation, you will need a few pieces of information. Make sure you have all of this information before moving ahead with the activation procedure.
- Site Information:
 1. Site name
 2. Site address
 3. Site phone number
- Station Owner’s Information
 1. Charging Station Owner’s name
 2. Charging Station Owner’s email address
 3. Charging Station Owner’s phone number
- Installer information
- NOTE: This site information will be used on a charger location map, so it must be accurate. Additionally, the Charging Station Owner of the site will be responsible for managing the chargers, receiving payments made through them, and paying the subscription fees for Noodoe EV OS.

9.4 Adding Charging Stations

Make sure the stations are powered up and the site has been created in the setup program.

- Add each station one by one.
 1. Add stations by scanning their QR codes OR
 2. Add stations using their Station IDs

9.5 Taking Charging Station Photos

Photos are important for helping EV drivers find your charging stations. Take a photo of each station to be used in Google Maps and in the Noodoe App.

Photo Suggestions:

- Take closeups of each charger (with the QR code visible).
- Include pictures taken from a distance so drivers can see the parking environment.
- State parking instructions where necessary or useful.

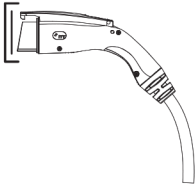
10. Operating Instructions

10.1 Charging Steps with the RFID Card



Step 1. Standby Mode

After powering on the charger, the white light will flash for around 90 seconds. The yellow light will be lit when the charger is in standby mode.



Step 2. Connecting

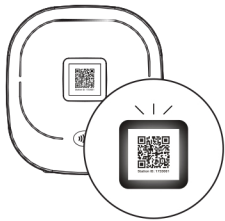
Plug the charging connector into the vehicle charging inlet.

* When using an RFID card, plug in the connector within 60 seconds of tapping the card. After 60 seconds, the user will need to tap the card again.



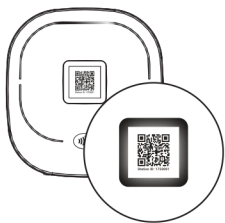
Step 3. Tap the RFID card

Tap the RFID card to start charging.



Step 4. Charging

The white light will start flashing when charging is in progress.



Step 5. Charging Complete

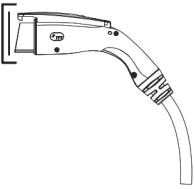
Unplug from the vehicle or tap the card to stop charging. The white light will be lit when charging is completed.

10.2 Charging Steps with the QR Code (Internet-Ready Model Only)



Step 1. Standby Mode

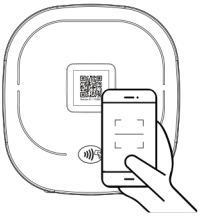
After powering on the charger, the white light will flash for around 90 seconds. The yellow light will be lit when the charger is in standby mode.



Step 2. Connecting

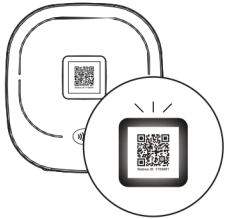
Plug the charging connector into the vehicle charging inlet.

* When using an RFID card, plug in the connector within 60 seconds of tapping the card. After 60 seconds, the user will need to tap the card again.



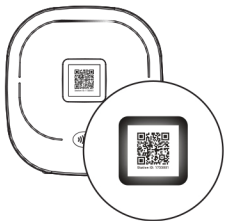
Step 3. Scan the QR Code

Scan the QR code (to enter the charging code or to select payment) to start charging.



Step 4. Charging

The white light will start flashing when charging is in progress.



Step 5. Charging Complete

Unplug from the vehicle or tap the card to stop charging. The white light will be lit when charging is completed.

10.3 Error Handling

Light	Status	Recommended Actions
<p>RED Flicker for 3 sec (on/off 0.2s or 0.5s)</p>	<p>RFID Authorization Failed or Hankshake Timeout</p>	<p>Solution1:</p> <p>It divideds into Non-Internet or Internet edition of the charger.</p> <ol style="list-style-type: none"> 1. Non-Internet edition of the charger: Please tag RFID close to RFID reader for 3 seconds, or change to valid RFID card. 2. Internet edition of the charger: <ol style="list-style-type: none"> a. Please top up RFID card if you card need it. b. Reconnection Internet. 3. Reconnect the wires of RFID reader (Note: Only qualified EV charger installers or electricians should perform the tests.) 4. If still cannot be recovered, please contact Noodoe customer service team. <p>Solution 2:</p> <ol style="list-style-type: none"> 1. Please plug in charging connector tightly within 180 sec after tap RFID or plug in first then tag RFID . 2. It might the electric vehicle not allow to charge, please reset the Battery Management System by turn electric vehicle on and off. 3. Check charging setting and indication of electric vehicle by instruction of electric vehicle manual . 4. If still cannot be recovered, unplug the charging plug and restart the charger. 5. If electric vehicle still not allow to charge, please contact electric vehicle service center for help.

Light**Status****Recommended Actions**

RED Flicker
continuously
(on/off 0.2s
or 0.5s)

Rotary Switch
Invalid Setting
or Control
Pilot Fault

Solution1:

1. Check charging setting and indication of electric vehicle by instruction of electric vehicle manual .
2. If still cannot be recovered, unplug the charging plug and restart the charger.
3. If electric vehicle still not allow to charge, please contact electric vehicle service center for help.

Maximum Output Current

This AC charger can support different maximum output currents through the settings rotary switch. Setting methods are shown below:

- Before setting the rotary switch, make sure the input power is turned OFF.
- Use a non-conductive object to set the rotary switch.



Switch Setting Number	0	1	2	3	4	5	6	7
Maximum Output Current	Test Mode	6 A	8 A	10 A	13 A	16 A	20 A	25 A

Switch Setting Number	8, 9	A	B-E	F
Maximum Output Current	32 A	30 A	Invalid Setting	Slave Mode

* Note 4: The default value for Japan is 30 A.

* Note 5: The default value in other countries is 32 A.

Solution 2:

1. Please Restart charger or restart the electric vehicle.
2. Replug in charging connector, start charging process again.
3. Check charging setting and indication of electric vehicle by instruction of electric vehicle manual. (Drive car away for few meters and back to charger, then start charging process again or start charging in another charger.)
4. If still not recover, please contact Noodoe customer service team.

Light	Status	Recommended Actions
1 RED flash followed by 3 sec pause	AC input Over Voltage Protection	<p>Note: Only qualified EV charger installers or electricians should perform the tests below:</p> <ol style="list-style-type: none"> 1. Please turn off the breaker on distribution box, measure input voltage of this breaker. If voltage is higher than specification value (265 Vac), please wait for Grid voltage back to normal value or call Grid service center. 2. When input voltage is less than specification value (275 Vac), turn on the AC input and restart charger. 3. If still cannot be recovered, please contact Noodoe customer service team.
2 RED flash followed by 3 sec pause	AC input Under Voltage Protection	<p>Note: Only qualified EV charger installers or electricians should perform the tests below:</p> <ol style="list-style-type: none"> 1. Please Turn off the breaker on distribution box, measure input voltage of this breaker. If input voltage is lower than specification value (190 Vac), please wait for Grid voltage back to normal value or call Grid service center. 2. If input voltage is not lower than specification value when AC input is off, check if there is any power connection loose or power capacity be insufficient. 3. When input voltage is higher than specification value, turn on this breaker and restart charger. 4. If still cannot be recovered, please contact Noodoe customer service team.
3 RED flash followed by 3 sec pause	AC output Over Current Protection	<p>Note: Only qualified EV charger installers or electricians should perform the tests below:</p> <ol style="list-style-type: none"> 1. Please Use current meter to measure L or N Line, if the EV sink current is over 32 A, please contact EV service center for help. 2. If the EV sink current is not over 32 A, please replug in charging connector, start charging process again. 3. Please restart the charger. 4. If still cannot be recovered, please contact Noodoe customer service team.

Light	Status	Recommended Actions
4 RED flash followed by 3 sec pause	Ambient/inlet Over Temperature Protection	<p>Note: Only qualified EV charger installers or electricians should perform the tests below:</p> <ol style="list-style-type: none"> 1. Please Lower down the ambient temperature of charger . 2. Check if any component is over temperature. 3. Reconnect the wires of thermal sensors. 4. If still cannot be recovered, unplug the charging plug then restart the charger. 5. If not resolved, please contact Noodoe customer service team.
5 RED flash followed by 3 sec pause	RCD/CCID Trip	<p>Note: Only qualified EV charger installers or electricians should perform the tests below:</p> <ol style="list-style-type: none"> 1. If still happened before charging, please unplug charging connector and restart charger. 2. Unplug the charging connector then do charging again. 3. If still happened during charging, the leakage current of electric vehicle might be higher than specification value (eg. >20 mA), please check charging setting and indication of electric vehicle by instruction of electric vehicle manual. (Drive car away for few meters and back to charger, then start charging process again or start charging in another charger.) 4. If still not recover, please contact Noodoe customer service team.

Light	Status	Recommended Actions
6 RED flash followed by 3 sec pause	Ground Fault	<p>Note: Only qualified EV charger installers or electricians should perform the tests below:</p> <ol style="list-style-type: none"> 1. Please check whether the grounding system complies with the charger's grid connection and grounding type settings. (eg. Switch 2 off is for TT or TN grounding). 2. Connect the N and PE tightly to reduce the resistance between N and PE. 3. If still cannot be recovered, please unplug the charging plug and restart the charger . 4. If it still cannot be recovered, pull a separate ground wire or ground rod. 5. If not resolved, please contact Noodoe customer service team.
7 RED flash followed by 3 sec pause	Emergency Stop	<ol style="list-style-type: none"> 1. Please Rotate emergency stop button 60 ° clockwise to release. 2. If still cannot release, unplug the charging plug and restart the charger. 3. If still not recover, please contact Noodoe customer service team.
RED lit continuously	MCU self-test Fault	<ol style="list-style-type: none"> 1. Please unplug the charging plug and restart charger. 2. If still not recover, please contact Noodoe customer service team.
RED lit continuously	RCD/CCID self-test Fault	<ol style="list-style-type: none"> 1. Please unplug the charging plug and restart charger . 2. If still not recover, please contact Noodoe customer service team.
RED lit continuously	Relay self-test Fault	<ol style="list-style-type: none"> 1. Please unplug the charging plug and restart charger . 2. If still not recover, please contact Noodoe customer service team.

11. Federal Communication Commission Interference Statement

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 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20 cm between the radiator and your body.

12. Industry Canada Statement

This device complies with ISED's licence-exempt RSSs. 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.

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 a distance greater than 20 cm between the radiator and 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.

This device is intended only for OEM integrators under the following conditions: (For module device use)

- (1) The antenna must be installed and operated with a distance greater than 20 cm between the antenna and users, and
- (2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as both conditions above are met, further transmitter tests will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

Cet appareil est conçu uniquement pour les intégrateurs OEM dans les conditions suivantes: (Pour utilisation de dispositif module)

- (1) L'antenne doit être installé et exploité avec plus de 20 cm entre l'antenne et les utilisateurs, et
- (2) Le module émetteur peut ne pas être coimplanté avec un autre émetteur ou antenne.

Tant que les 2 conditions ci-dessus sont remplies, des essais supplémentaires sur l'émetteur ne seront pas nécessaires. Toutefois, l'intégrateur OEM est toujours responsable des essais sur son produit final pour toutes exigences de conformité supplémentaires requis pour ce module installé.

IMPORTANT NOTE:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate Canada authorization.

NOTE IMPORTANTE:

Dans le cas où ces conditions ne peuvent être satisfaites (par exemple pour certaines configurations d'ordinateur portable ou de certaines co-localisation avec un autre émetteur), l'autorisation du Canada n'est plus considéré comme valide et l'ID IC ne peut pas être utilisé sur le produit final. Dans ces circonstances, l'intégrateur OEM sera chargé de réévaluer le produit final (y compris l'émetteur) et l'obtention d'une autorisation distincte au Canada.

13. Maintenance

13.1 Daily Maintenance

Please keep the charger clean and keep the charger in a clean area with low humidity. Do not install it in an environment near the sea, with high oil, high humidity or high dust.

- Avoid moisture or water in the charger. If water or excess moisture gets into the charger, immediately power off the charger to avoid immediate danger. Proceed to contact the appropriate maintenance personnel before the next use.
- If there is any damage or dirt on the vehicle connector, charging cable, or vehicle connector holder, please contact the maintenance personnel immediately.
- Please use the charger correctly. Do not hit or press hard on the case. If the case is damaged, please contact a professional technician.
- Avoid placing the charger near hot objects and at high-temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
- Do not place external objects or heavy objects on the charger to avoid danger.


13.2 Maintenance Spares

This product is equipped with adequate spare maintenance parts for regular maintenance use under and over the warranty period. Warranty services and repairs must be performed by company certified maintenance technicians. For details, please contact the charger distributor or customer service of the company.



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