

Installation and operation manual

AC MAX

NA-Smart version



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1 Information

1.1 Copyright

The ownership and all intellectual property rights of this Installation and Operation Manual (this “Manual”), including but not limited to the content, data and figures contained herein are vested by Delta Electronics, Inc. (“DELTA”). The Manual can only be applied to operation or use of the device. Any disposition, duplication, dissemination, reproduction, modification, translation, extraction or any other usage to the Manual is prohibited without obtaining DELTA’s prior written permission. As the product will be developed and improved continuously, DELTA may modify or update the Manual from time to time without any notice. DELTA disclaims any kinds or forms of warranty, guarantee or undertaking, either expressly or implicitly, including but not limited to the completeness, accuracy, non-infringement, merchantability or fitness for particular purpose or usage. Copyright © 2021 Delta Electronics, Inc. All Rights Reserved.

1.2 Intended use

The device is developed, manufactured, tested and documented according to the safety standards. If you comply with the instructions and safety instructions described for its intended use, the product normally will not pose any danger in terms of property damage or to the health of people. The instructions contained in this manual shall follow to the letter. Otherwise, sources of danger may be produced or safety equipment may be rendered inoperable.

This device may only be used to charge Electric Vehicle(EV) or Plug In Hybrid Electric Vehicle(PHEV) in accordance with the following regulations:

- AC Level 2 charging according to SAE J1772.
- Use with plugs and sockets according to UL 2231-1, 2231-2, UL 2251 and UL 2594.

In addition, the following conditions apply for intended use:

- The device is exclusively for stationary installation.
- The device is designed for installation on a wall or pedestal.
- The device can be used for indoors and outdoors.

The following uses are considered as not intended:

- The charging of electric vehicles with gassing batteries is not permitted.

1.3 Important safety instructions

Before installing, commissioning, and operating of the EVSE, review this manual carefully and consult with licensed contractors, licensed electricians and installation experts to ensure compliance with local building practices, climate conditions, safety standards, and state and local codes. DELTA is not responsible for damage caused by failure to follow the safety instructions and work instructions in this manual.



DANGER

Risk of electric shock



Dangerous voltages and currents can occur during operation of the EVSE. Therefore, before carrying out any work on the EVSE, take the following protective measures and save these instructions:

- Disconnect all electrical power prior to installing the EVSE. Failure to do so may result in electric shock,

physical injury or damage to the electrical system and charging unit.

- Do not remove circuit protective devices or any other component until all electrical power is disconnected.
- Secure the working area against access by unauthorized persons.
- The EVSE must be connected to a grounded, metal, permanent wiring system or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the EVSE.
- Use a measuring instrument to check that there is no voltage.
- Use appropriate protection when connecting to the main power distribution cable.



DANGER



Instructions pertaining to a risk of fire or electric shock

Dangerous voltages and currents can occur when operating the EVSE.

- Do not use the device to charge or supply other devices.
- Do not touch the contact pins of the charging plug when operating.
- Do not use adapters, conversion adapters or cord extension sets with the EVSE.
- Do not use this EVSE if the flexible power cord or charging cable is frayed, the insulation is broken, or the device shows signs of damage.



WARNING

- Close the charging plug with the protective cap when not in use.
- Damaged cables may only be replaced by electricians.
- Do not use this EVSE if the enclosure or the vehicle connector is broken, cracked, open, or shows any signs of damage.
- Only pull the charging cable out of the charging socket by the charging plug.
- The ambient operating temperature range for this device is between -22°F (-30°C) and 122°F (50°C). Do not operate the EVSE outside this operating range.



CAUTION



Risk of tripping

People can trip over cables lying around.

- ▶ Always hang the charging cable in the holder supplied with the EVSE after use.

- A device using pressure connectors for field wiring connections must be supplied with instructions that specify a range or nominal value of the tightening torque to be applied to the terminal screws of the connectors.
- Any repair work as well as the replacement of components on the EVSE may only be carried out by DELTA. Otherwise the warranty will become void.
- Damaged or illegible safety labels must be replaced.
- The EVSE can only be installed by licensed contractors, or licensed electricians in accordance with all applicable state, local and national electrical codes and standards in a location with non-restricted access.
- To ensure the ingress protection degree IP55, seal all external connections adequately. Seal unused

connections with the caps provided.

- Warning notices, warning symbols and other markings attached to the EVSE by DELTA must not be removed.

1.4 Operator's duty of supervision

- As the operator of the EVSE, you are responsible for the safety of the users and its proper use.
- As the operator of the EVSE, you are responsible for the safety of particularly vulnerable persons, especially children. Ensure that such persons maintain a sufficient safety distance from the EVSE and the charging cable.
- Consider the emergency routes at the installation site.
- Do not install the device at potentially explosive atmosphere areas (Ex areas).

1.5 EMC Compliance Statement

Identification of EVSE refers to below:

	Bluetooth	Cellular
Contains FCC ID	QOQMGM210L	QIPPLS8-X
Contains IC	5123A-MGM210L	7830A-PLS8X
	WiFi	RFID
FCC ID	H79EIAWU19KSS	H79EIAWU19KSS
IC ID	4259B-EIAWU19KSS	4259B-EIAWU19KSS

1.5.1 FCC Part 15 Subpart B

1.5.1.1 RF Exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

1.5.1.2 FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

1.5.1.3 FEDERAL COMMUNICATIONS COMMISSION CAUTION

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment. Referring to the multi-transmitter policy, multiple-transmitter(s) and module(s) can be operated simultaneously without C2PC.

1.5.2 IC CAN ICES-002(B) / NMB-002(B)

1.5.2.1 Canada, Industry Canada (IC) Notices

This device complies with Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Canada, avis d'Industry Canada (IC)

Cet appareil est conforme avec Industrie Canada exemptes de licence RSS standard(s). Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

1.5.2.2 Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized. This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions. (antennas are greater than 20cm from a person's body).

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal. Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (antennes sont supérieures à 20 cm à partir du corps d'une personne).

1.6 Model series

The following describes the segmentation used to describe the basic features of each available model:

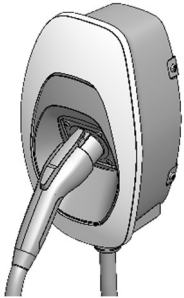
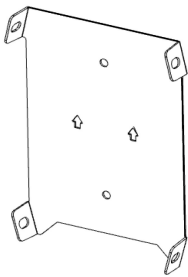
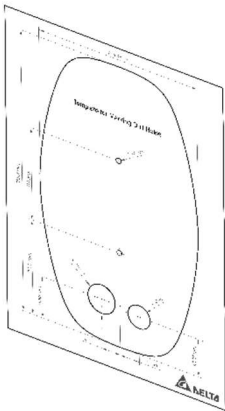
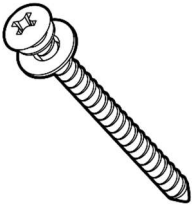
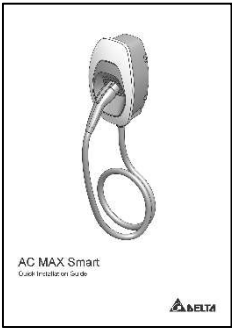
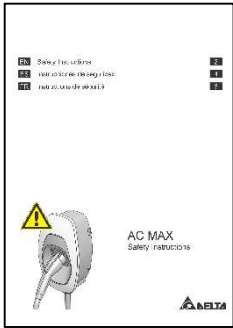
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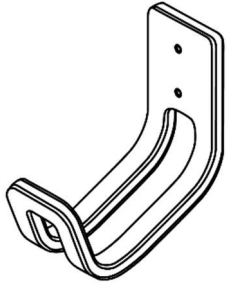
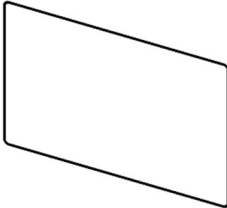
1 2 3 4 5 6 7 8

Segment	Item	Description
1	E: AU/NZ, EMEA, SEA, G: China J: Japan T: Taiwan U: Canada, US	Indicate the available region
2	From 1-99: 7: 7 kW 11: 11 kW 19: 19 kW	Indicates the nominated maximum output power
3	S: Single phase T: Three phase	Indicates the phase of input rating
4	B: Basic S: Smart P: Premium	Indicates the version of EVSE
5	U: SAE J1772 plug E: IEC 62196-2 plug S: IEC 62196-2 socket H: IEC 62196-2 shutter G: GB/T 20234.2 plug	Indicates the charging interface
6	From 1-9: 7: 25 ft	Indicates the cable length (0 for socket or shutter)
7	From A-Z: A: Generation A B: Generation B	Indicates the product generation
8	From 01-99	Indicates the serial code of EVSE

1.7 Product overview

1.7.1 Scope of delivery

Part	Description	Part	Description
EVSE	 1x	Mounting bracket	 1x
Template	 1x	Torx T30 mounting bolts	 4x
No. 8 wood screws	 2x	1/4 inch expansion bolts	 2x
Quick installation guide	 1x	Safety instructions	 1x

Part	Description	Part	Description
Cable holder	 1x	wood screws	 2x
RFID	 2x		

1.7.2 Recommended tools

The following tools are recommended for the installation of product:

Part	Description
Electro drill	Used for masonry walls
Pencil	
Spirit level	
Terminal crimper	Crimping input wire
Torque wrench	
Torque screwdriver (cross)	Securing mounting bracket to masonry walls or stand
Torque screwdriver (slotted)	Securing mounting bracket to masonry walls or stand
Torx T20 screwdriver	Securing front cover and middle cover
Torx T30 screwdriver	Securing mounting bracket

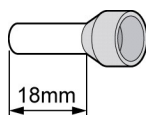
1.7.3 Installer-supplied components

Installers may prepare the following parts:

- Conduit and hub of appropriate size (1" or refer to the local rules) for input power wires to ensure the water resistance.
- DIN 46228-4 Cord end terminal:

Please use the cord end terminal for split conductors while installation.

Current	48 A	80 A
Pin length	18 mm	18 mm
Wire range	4 AWG	2 AWG



3. Upstream breakers:



CAUTION

To reduce the risk of fire, connect only to a circuit provided with 60 or 100 amperes maximum branch circuit overcurrent protection in accordance with the National Electrical Code, ANSI/NFPA 70, and the Canadian Electrical Code, Part 1, C22.1.

Model	Circuit breaker specification
EIAW-U11K	60A min., 240V min., 2 poles
EIAW-U19K	100A min., 240V min., 2 poles

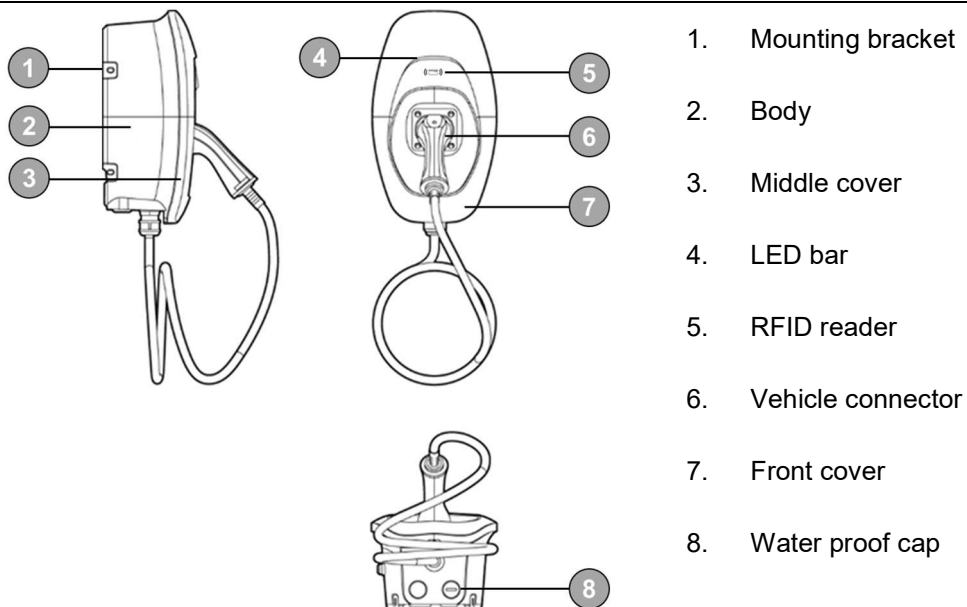
4. SIM card:

SIM card	Width	Height	Depth	4G support band
Micro SIM	15 mm	12 mm	0.76 mm	Band 2, Band 4, Band 5, Band 13, Band 17

5. Ethernet cable:

Part	Specification
Connector	Modular registered jack 45 (RJ45)
Cable	Category 5 (Cat 5), 10/100 Mbps

1.7.4 Overview of components



2 Installation

Before you start, please read the following instructions:

2.1 Preparation before start

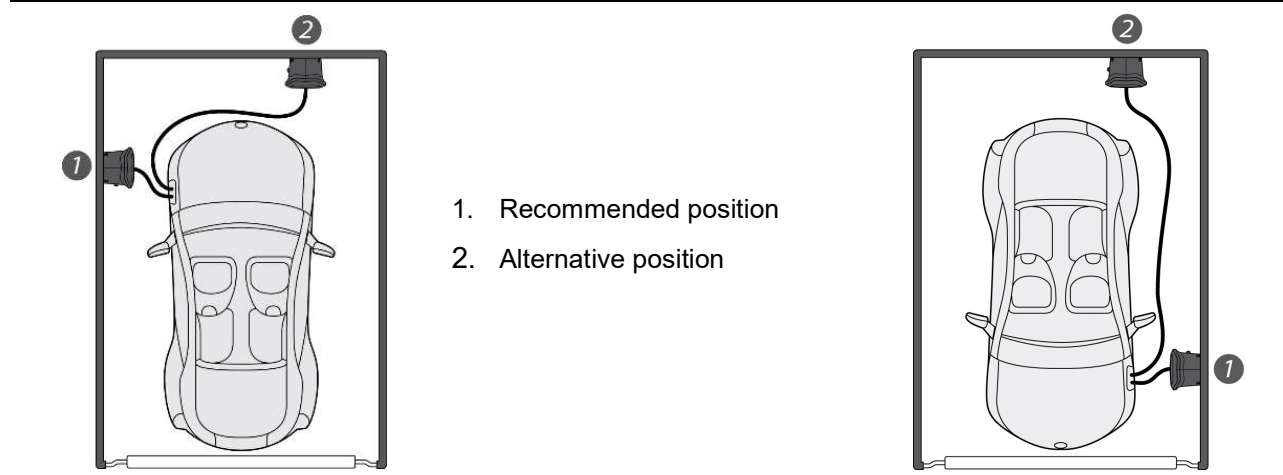
2.1.1 Installation site selection

AC MAX can be installed in both indoor and outdoor environments. It is necessary to consider the installation conditions and protection at the site:

- Follow local electrical regulation and installation standards.
- Consider the emergency routes at the installation site.
- Do not install the device at potentially explosive atmosphere areas (Ex areas).

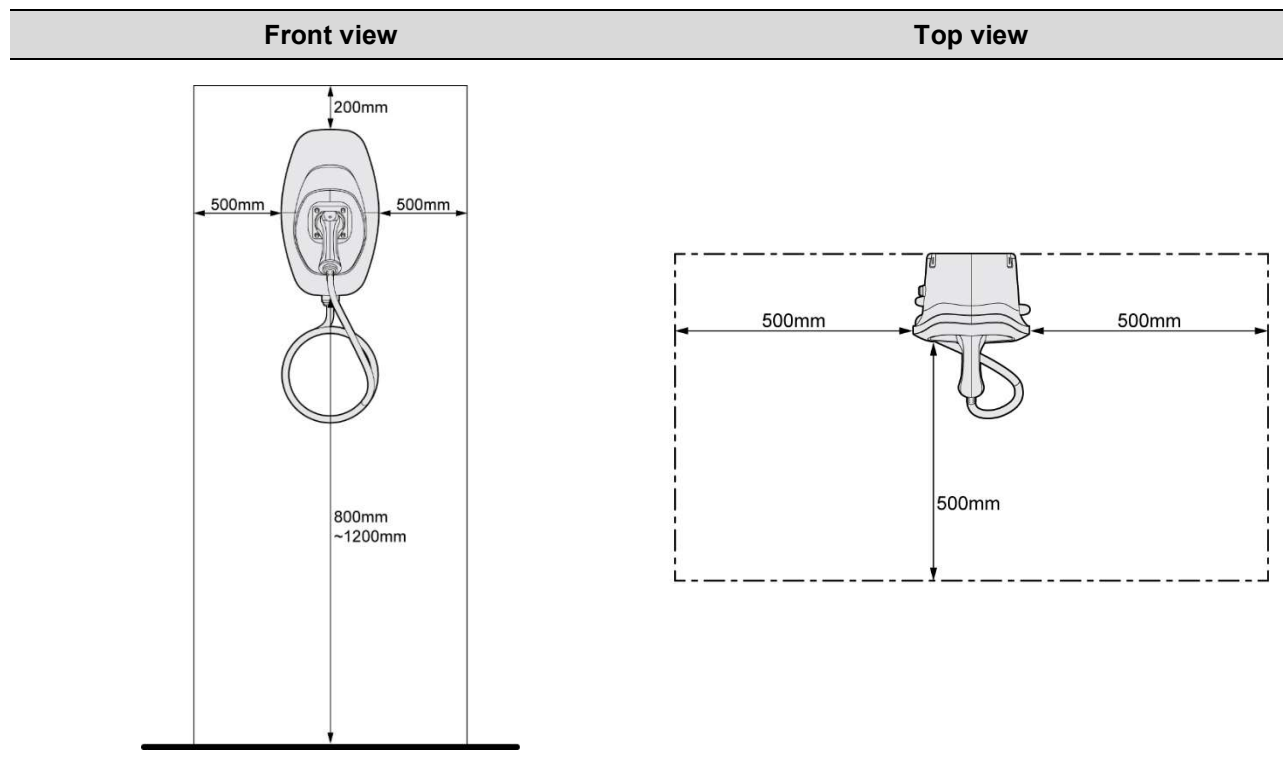
2.1.2 Recommended installation positions

When considering installation positions, make sure EV can be easily connected with EVSE and have enough space for maintenance.



2.1.3 Recommended installation space

Installers shall follow applicable accessibility requirements for the mounting position. This device shall be mounted at a sufficient height from grade such that the height of the storage means for the coupling device is located between 800 mm (31.5 inches) and 1200 mm (48 inches) from grade.

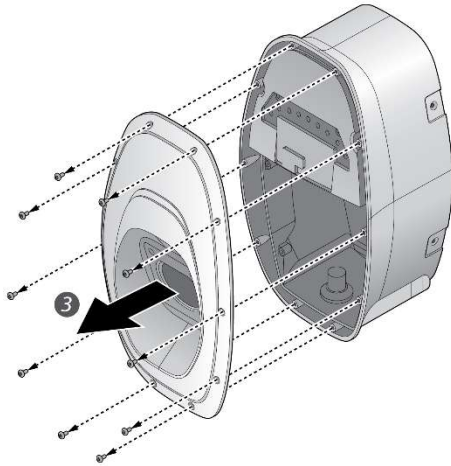


2.2 Installation steps

2.2.1 Remove front cover and middle cover

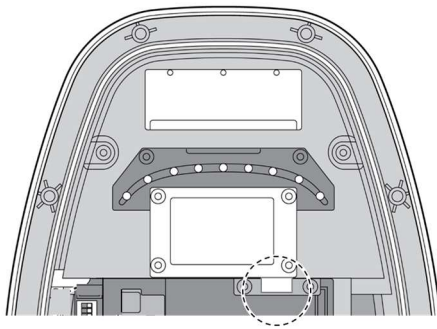


1. Remove the screw located at the bottom of front cover by using a Torx T20 screwdriver.
2. Pull the front cover upward to separate from the EVSE.



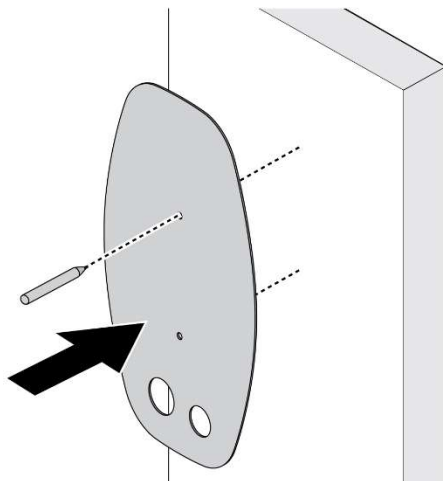
3. Remove the screw located at the middle cover by using a Torx T20 screwdriver.
4. Remove the middle cover.

2.2.2 (Optional) insert SIM card for cellular function



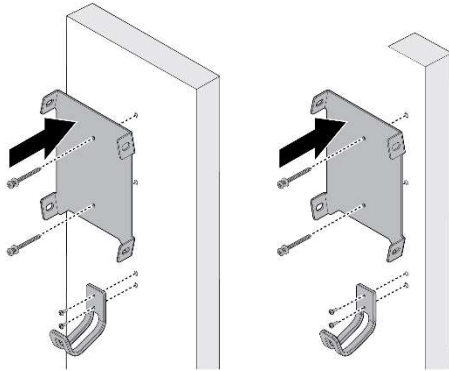
Insert the SIM card into the socket and ensure the connection is well connected.

2.2.3 Mark drill holes

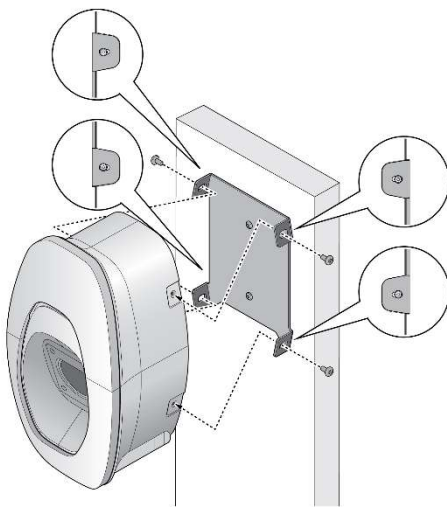


The EVSE is a stationary wall-mounted equipment. Using the template to mark the screw locations for the mounting bracket and cable holder (optional).

2.2.4 Secure mounting bracket



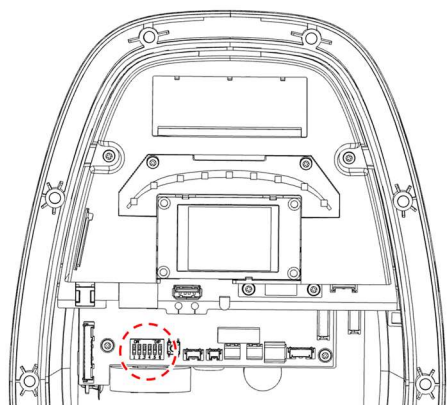
1. The cable holder is optional and depicted in the figure for demonstration purposes. The following are recommended bolt types:
 - Masonry walls: 1/4" expansion bolts.
Torque: 8.8 N·m (78 lb·in)
 - Finished walls supported by wood studs: #8 wood screws of 2" or above screw length.
Torque: 3 N·m (26 lb·in)



2. Align the EVSE with the screw holes on the mounting bracket.
3. Secure the EVSE on the mounting bracket with the supplied Torx T30 screws.

Torque: 1.5 N·m (13 lb·in)

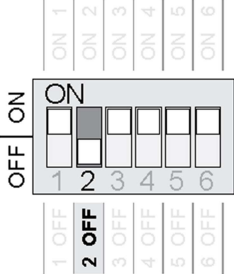
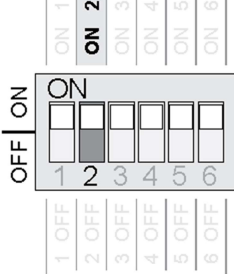
2.2.5 Configure dip switches



Configure the dip switches with following steps:

2.2.5.1 Authorization mode

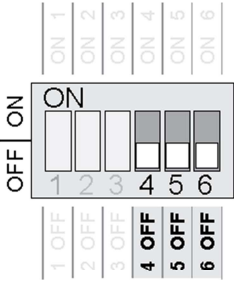
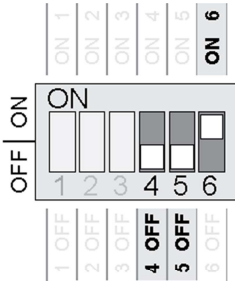
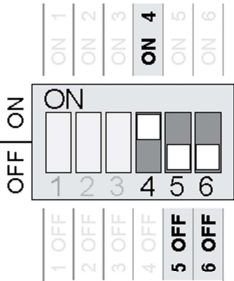
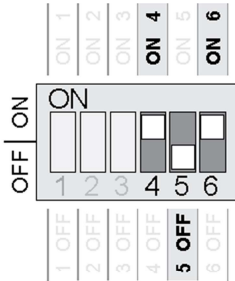
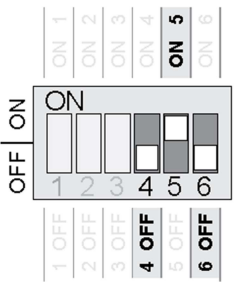
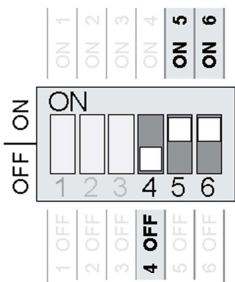
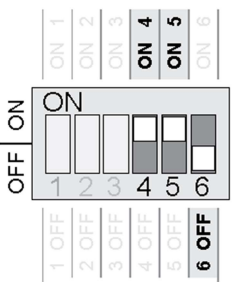
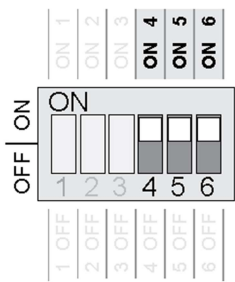
Choose the pin 2 to configure the authorization mode for bluetooth availability.

Configuration	Function	Configuration	Function
	Not available		Bluetooth* (Default)

*Bluetooth connection is reserved for commissioning purpose.

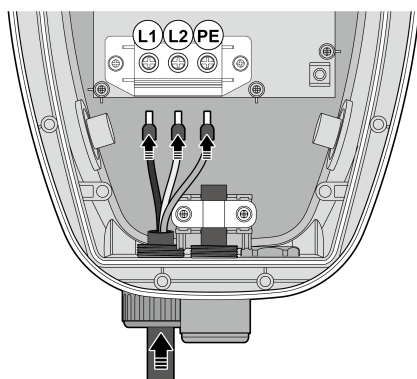
2.2.5.2 Maximum current setting

Choose the pin 4-6 to configure the maximum output current ratings.

Configuration	Max. Current Ratings	Configuration	Max. Current Ratings
	10A (Default)		48A
	20A		60A*
	30A		70A*
	40A		80A*

* Depends on model configuration

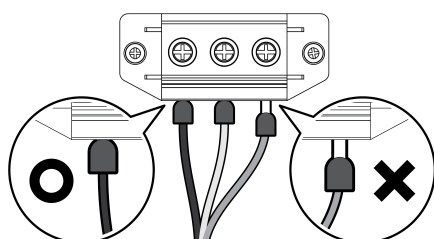
2.2.6 Connect input wire



1. Install the copper wire as described. The section of copper wire connected to terminal shall be reserved enough tolerance to prevent any tension or stress from the external force.

Note: Copper wire type: 4 AWG for 48 A, and 2 AWG for 80 A

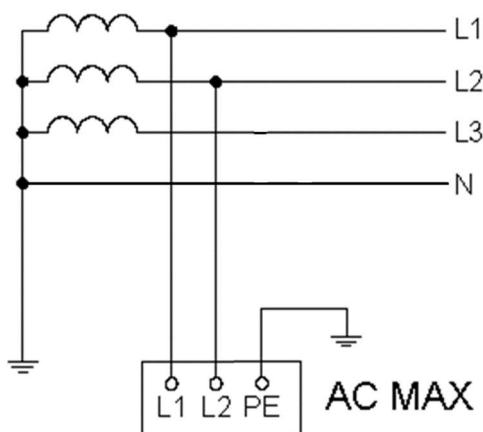
2. Insert the input wire into the terminal accordingly. The cord end terminal shall be inserted to the end without any deviation.
Note: Bottom-fed/rear-fed is available for indoor/outdoor installation with cable gland.



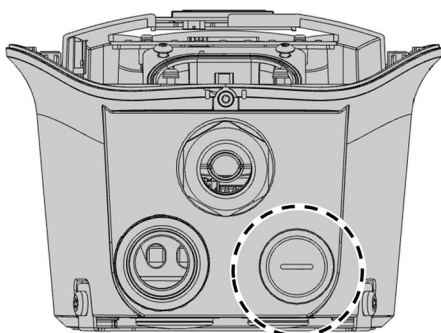
3. Make sure the terminal block is secured correctly with screwdriver.

Torque: 4.2 N·m (36.5 lb·in)

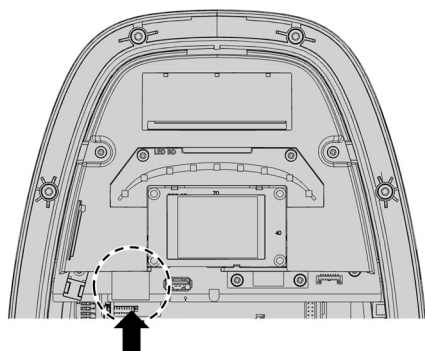
2.2.6.1 Wiring diagram



2.2.7 (Optional) connect RJ45 port for Ethernet function

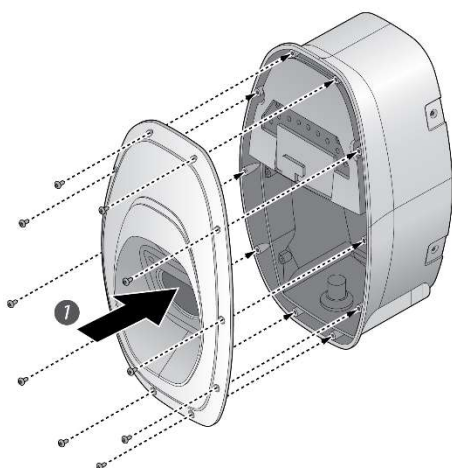


1. Remove the water proof cap and pass through the Ethernet cable with appropriate conduit or cable gland.



2. Connect the Ethernet cable into the RJ45 port.

2.2.8 Secure middle cover and front cover



1. Recover the middle cover on the EVSE and secure the middle cover by using Torx T20 screwdriver.

Torque: 1.2 N·m (10.5 lb·in)

Note: rubber sealing shall be put on the appropriate position before recovery.



2. Recover the front cover on the EVSE.
3. Secure the screw located at the bottom of front cover by using a Torx T20 screwdriver.
Torque: 0.5 N·m (4.4 lb·in)

3 Commissioning

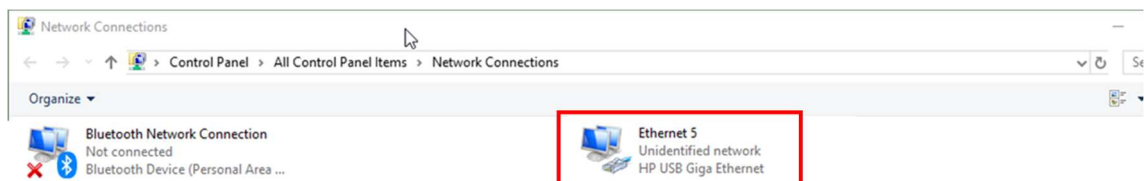
AC MAX can use the **Web Configuration Tool** to do the configuration, firmware upgrade, log download, etc.
General process:

1. Finish the installation process and power on the EVSE.
2. Connect to the EVSE with your Laptop or smart phone. If using the Ethernet connection, please finish the connection during installation process.
3. Configure the EVSE based on following instruction, and click the button “Save and Restart Charger”.
4. Start to charge your EV with operating instruction.

3.1 Connection setting

3.1.1 Through “Ethernet” connection

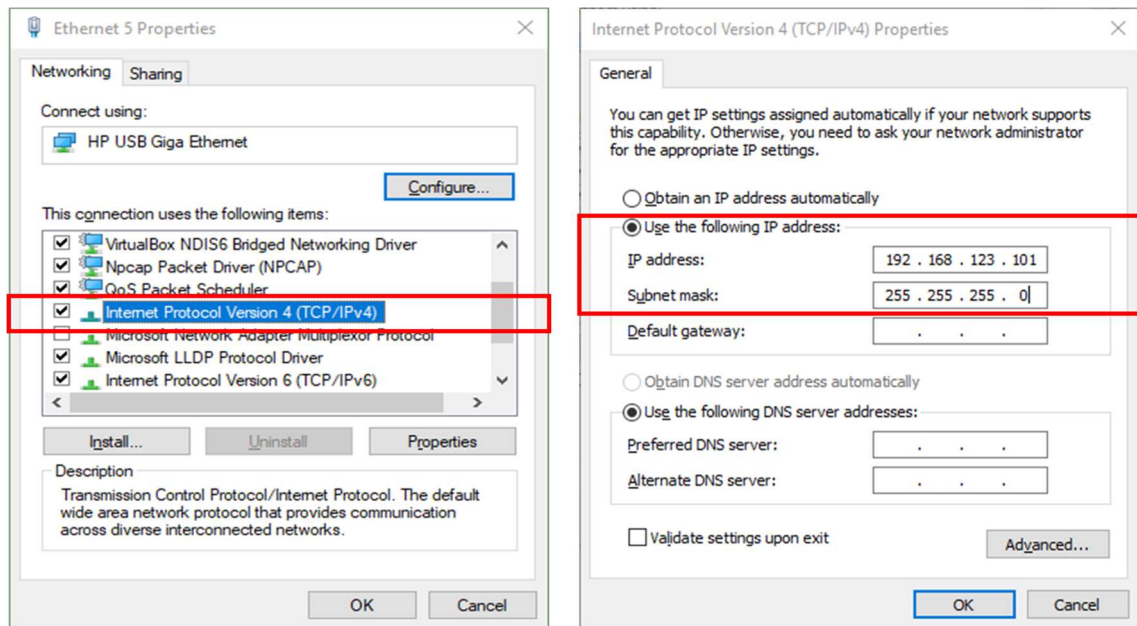
1. Click network icon  in the taskbar. Open “network and internet setting” and choose the network.



- Choose TCP/IPv4 and enter the IP address

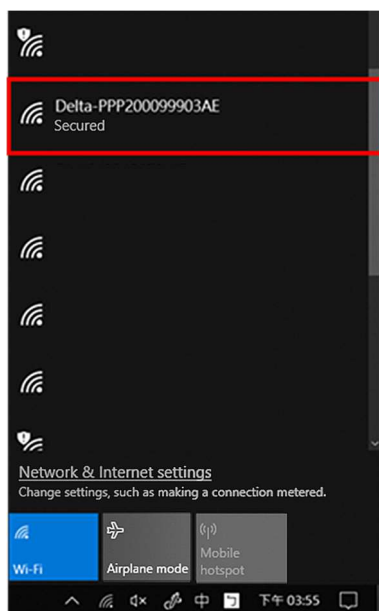
IP address: 192.168.123.101

Subnet mask: 255.255.255.0



3.1.2 Through “WiFi” connection

- Click network icon  in the Taskbar. Open “network and internet setting” and choose the connected network.(SSID: Delta-serial number/ Password: please refer to the last page of “Quick Installation Guide”)



Note: serial number refers to the spec label on EVSE.

3.2 Login

1. Open web browser.

Note: recommended web browser includes Chrome 67, safari 11, IE 10, Firefox 61 and above version.

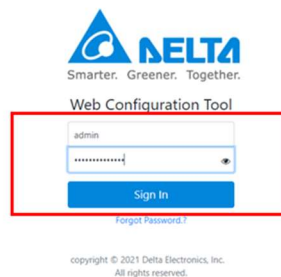
2. Enter the web address and login.

Web address: 192.168.123.123 (Ethernet)/ 192.168.5.1(WiFi)

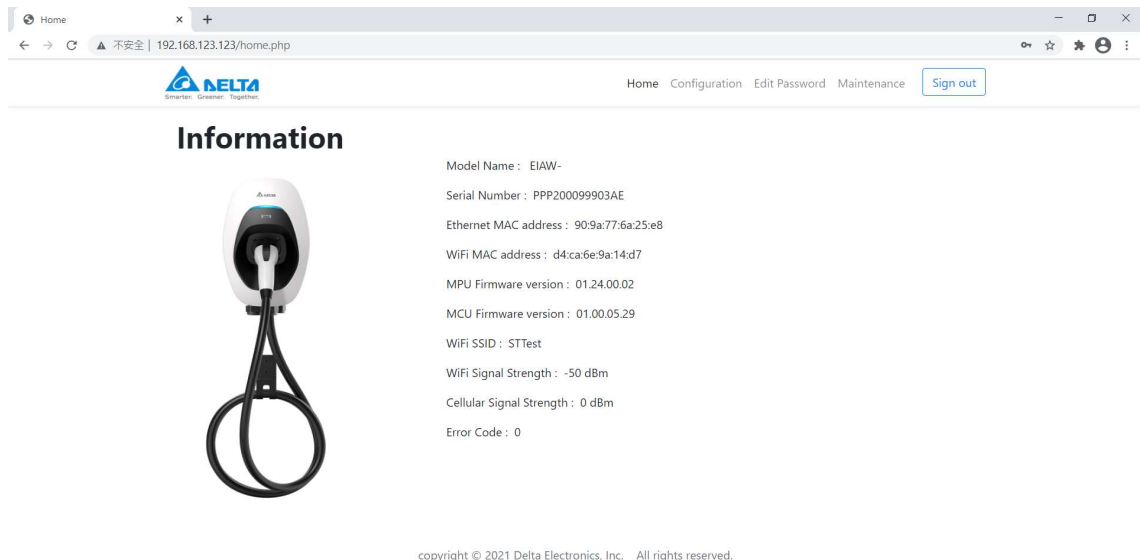
User account: admin

Password: please refer to the last page of “Quick Installation Guide”

Only allow 5 times “Failed login attempts” and account will be locked. User can try it again after 5 minutes.



3. After login, user can see the “Home” page and EVSE information.

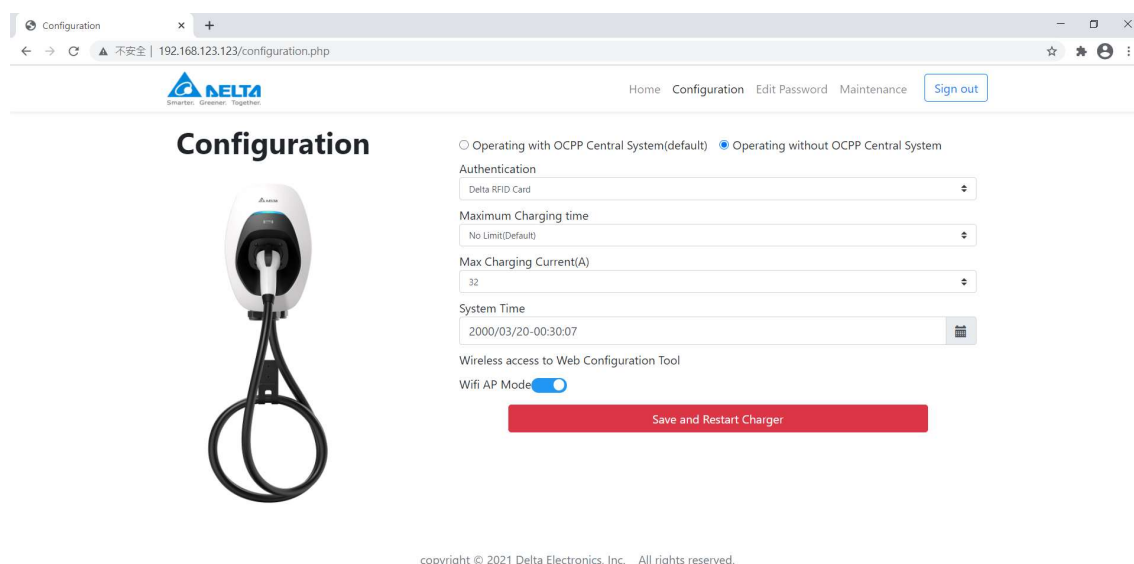


3.3 Configuration

3.3.1 Operating without OCPP system

User can configure the below information for EVSE:

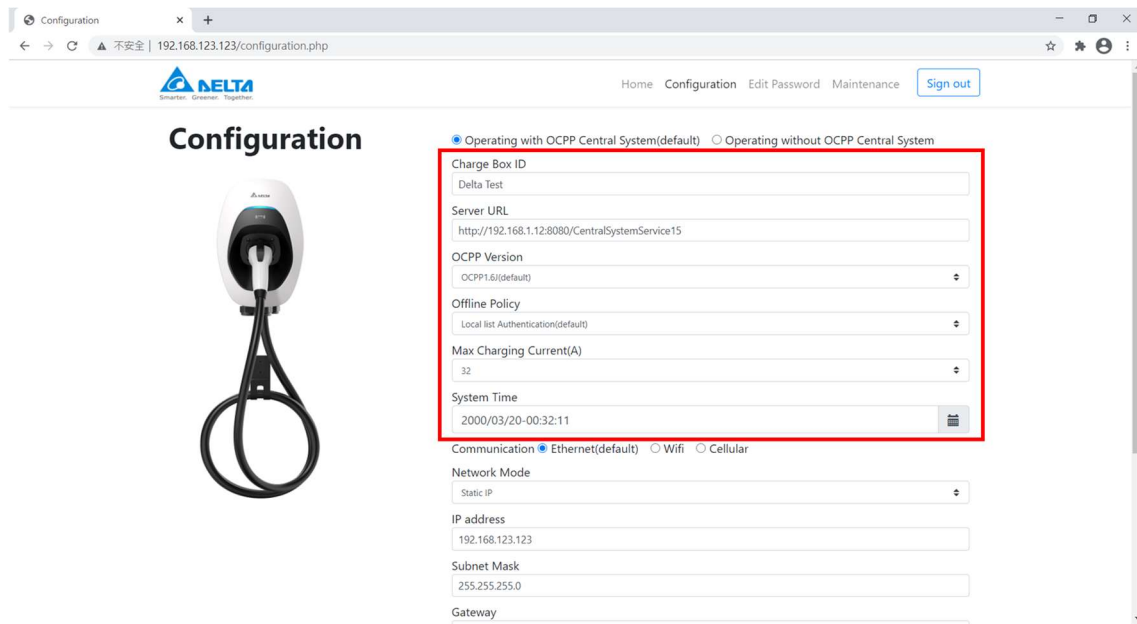
Item	Description
Authentication	Choose the authorized mode for user authentication. Default will be "RFID mode".
Maximum charging time	Choose the maximum charging time for each charging session. Default will be "No limit".
Maximum charging current	Choose the maximum charging current per phase. It is limited by the dip switch setting.
System time	Choose the system time "YYYY/MM/DD- HH:MM:SS"
WiFi AP mode	When active, EVSE is capable of commissioning through WiFi connection.



3.3.2 Operating with OCPP system

User can configure the below information for EVSE:

Item	Description
Charge Box ID	The Box ID shall be consistent with the one in your OCPP system.
Server URL	Enter the URL to connect to your OCPP system
OCPP version	Choose OCPP version. Default will be "OCPP 1.6J".
Offline policy	Choose the behavior when disconnection. Default will be "Local authentication".
Maximum charging current	Choose the maximum charging current per phase. It is limited by the dip switch setting.
System time	Choose the system time "YYYY/MM/DD- HH:MM:SS"
WiFi AP mode	When active, EVSE is capable of commissioning through WiFi connection.



Configuration

Operating with OCPP Central System(default) ☐ Operating without OCPP Central System

Charge Box ID
Delta Test

Server URL
http://192.168.1.12:8080/CentralSystemService15

OCPP Version
OCPP1.6j(default)

Offline Policy
Local list Authentication(default)

Max Charging Current(A)
32

System Time
2000/03/20-00:32:11

Communication ☒ Ethernet(default) ☐ Wifi ☐ Cellular

Network Mode
Static IP

IP address
192.168.123.123

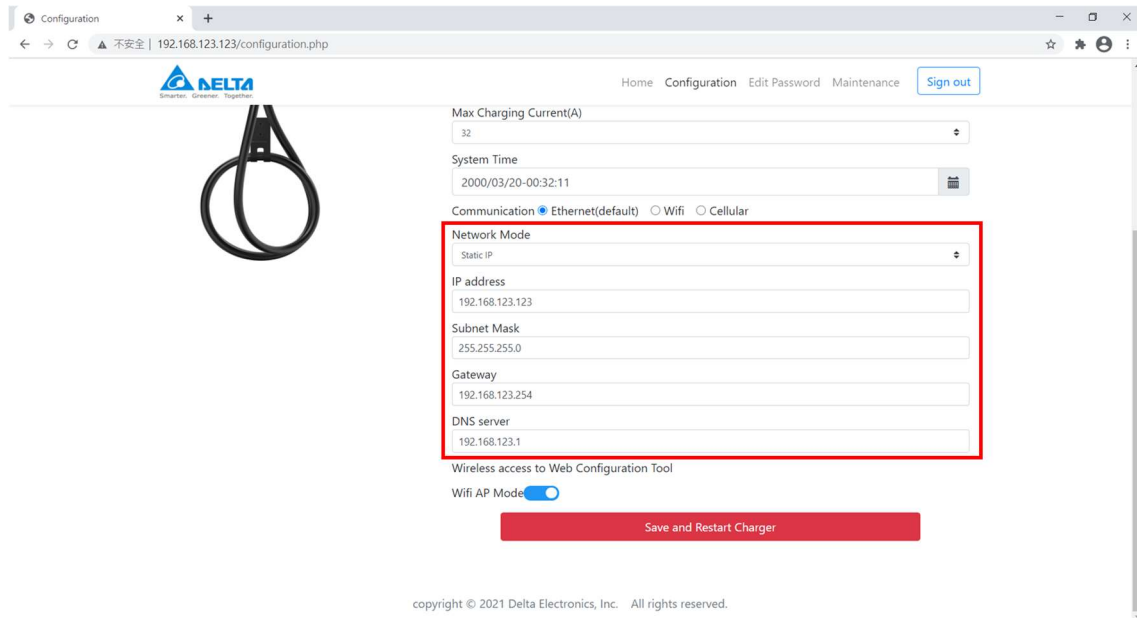
Subnet Mask
255.255.255.0

Gateway

For communication setting, please refer to below section. Users are able to connect the OCPP system through either “Ethernet”, “WiFi”, or “Cellular” connection.

3.3.2.1 Connection through “Ethernet”

Choose the “Network mode”, and enter the corresponding information.



Max Charging Current(A)
32

System Time
2000/03/20-00:32:11

Communication ☒ Ethernet(default) ☐ Wifi ☐ Cellular

Network Mode
Static IP

IP address
192.168.123.123

Subnet Mask
255.255.255.0

Gateway
192.168.123.254

DNS server
192.168.123.1

Wireless access to Web Configuration Tool

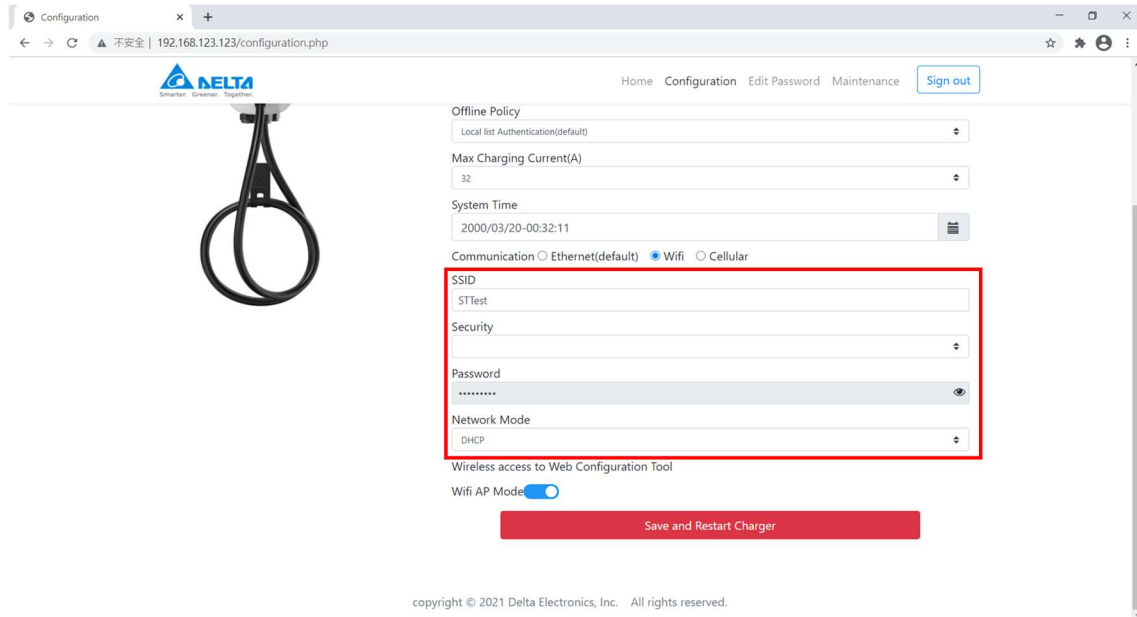
Wifi AP Mode ☒

Save and Restart Charger

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3.3.2.2 Connection through “WiFi”

Enter the information based on your wireless AP setting.



Configuration

192.168.123.123/configuration.php

Home Configuration Edit Password Maintenance Sign out

DELTA

Offline Policy

Local list Authentication(default)

Max Charging Current(A)

32

System Time

2000/03/20-00:32:11

Communication ☐ Ethernet(default) ☒ Wifi ☐ Cellular

SSID

STTest

Security

Password

Network Mode

DHCP

Wireless access to Web Configuration Tool

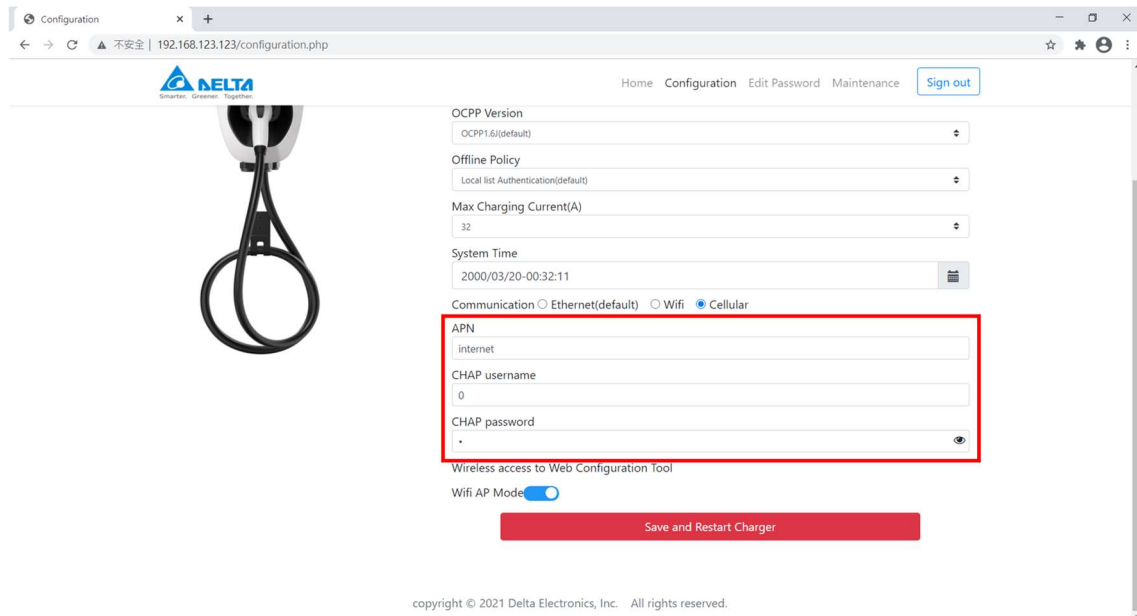
Wifi AP Mode ☒

Save and Restart Charger

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3.3.2.3 Connection through “Cellular”

Enter the information based on your contract with telecom operator.



Configuration

192.168.123.123/configuration.php

Home Configuration Edit Password Maintenance Sign out

DELTA

OCPP Version

OCPP1.6j(default)

Offline Policy

Local list Authentication(default)

Max Charging Current(A)

32

System Time

2000/03/20-00:32:11

Communication ☐ Ethernet(default) ☐ Wifi ☒ Cellular

APN

internet

CHAP username

0

CHAP password

*

Wireless access to Web Configuration Tool

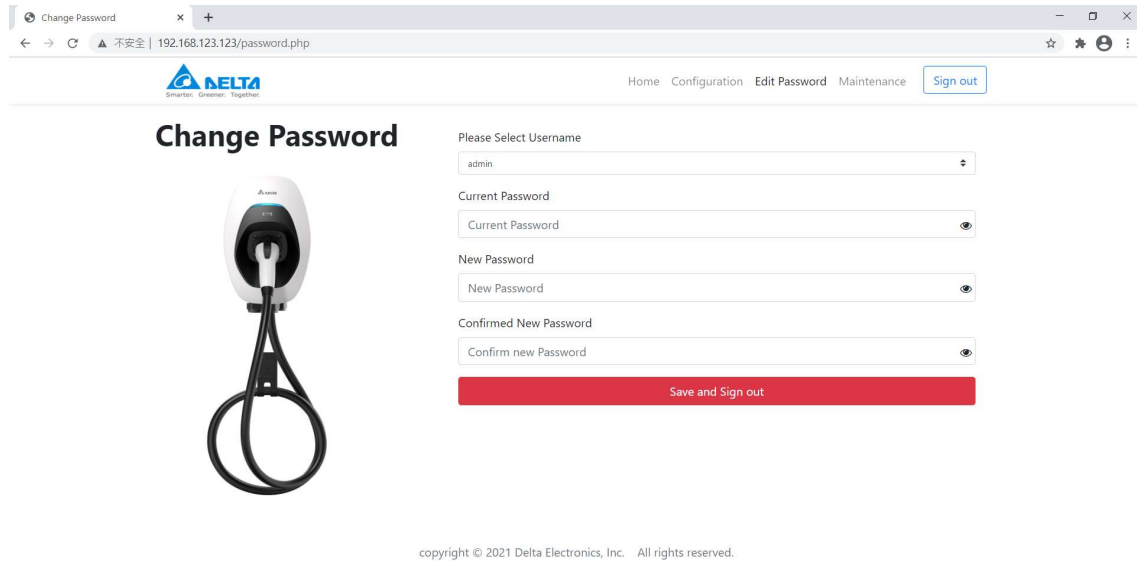
Wifi AP Mode ☒

Save and Restart Charger

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3.4 Edit password

User can find default password on quick installation guide, and use it for the setting of new password.



Change Password

Please Select Username

admin

Current Password

Current Password

New Password

New Password

Confirmed New Password

Confirm new Password

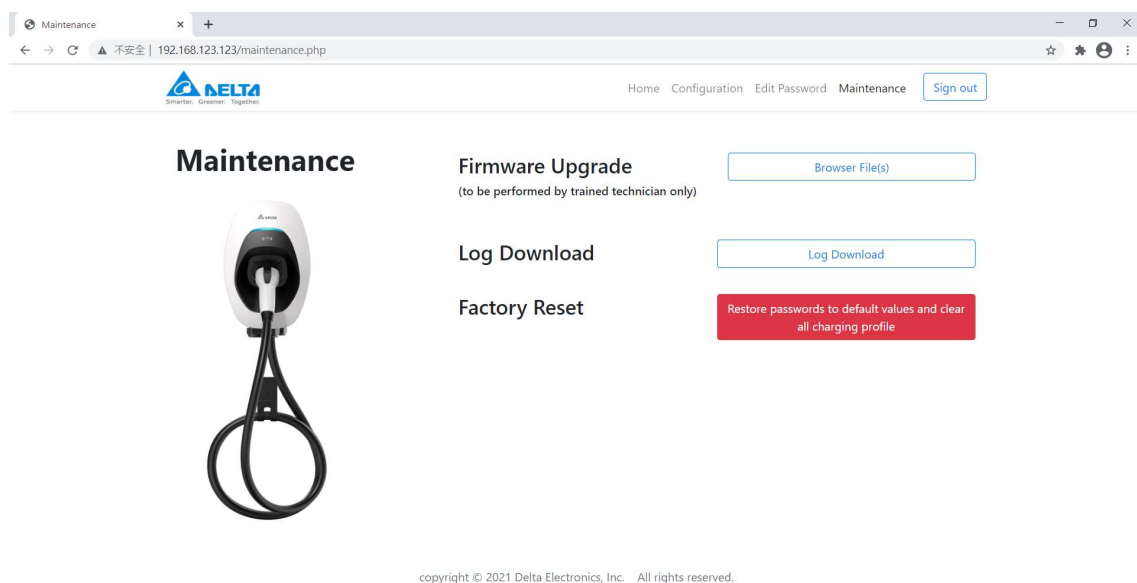
Save and Sign out

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3.5 Maintenance

To get the better user experience, users are recommended to do the maintenance with following instruction:

Item	Description
Firmware update	User can get the latest or improved function through firmware update, and please contact the local dealer or DELTA service partner for the support.
Log download	User can download the log file to analyze the EVSE status.
Factory reset	User can reset the EVSE to default setting.



Maintenance

Firmware Upgrade
(to be performed by trained technician only)

Browser File(s)

Log Download

Log Download

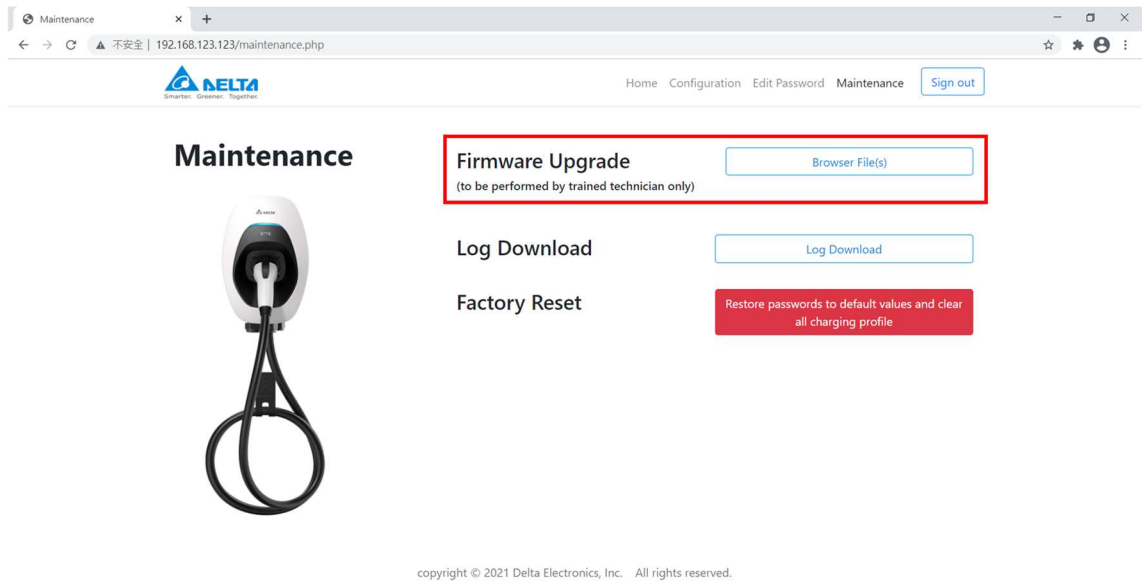
Factory Reset

Restore passwords to default values and clear all charging profile

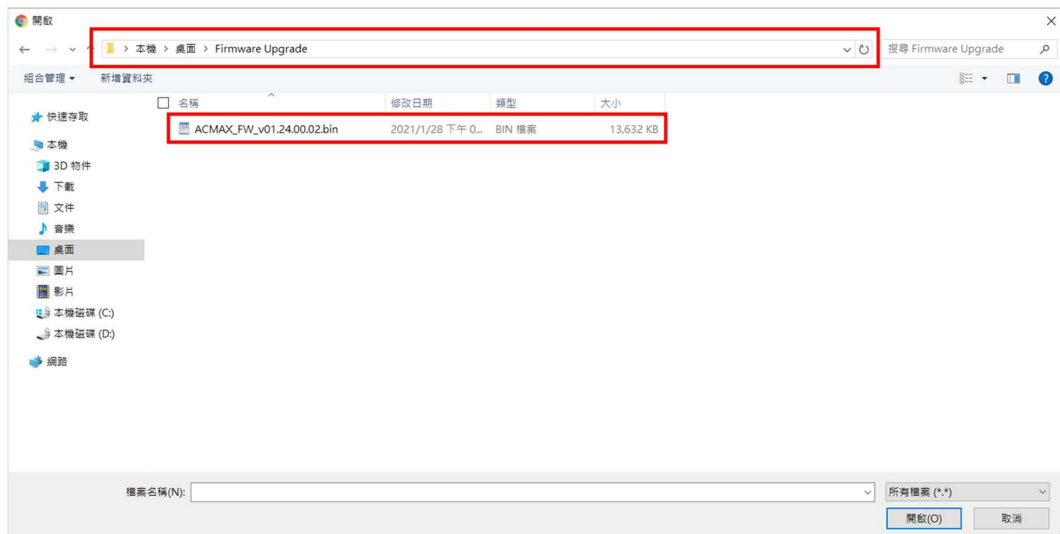
copyright © 2021 Delta Electronics, Inc. All rights reserved.

3.5.1 Firmware update

1. Press the button "Browser Files(s)".

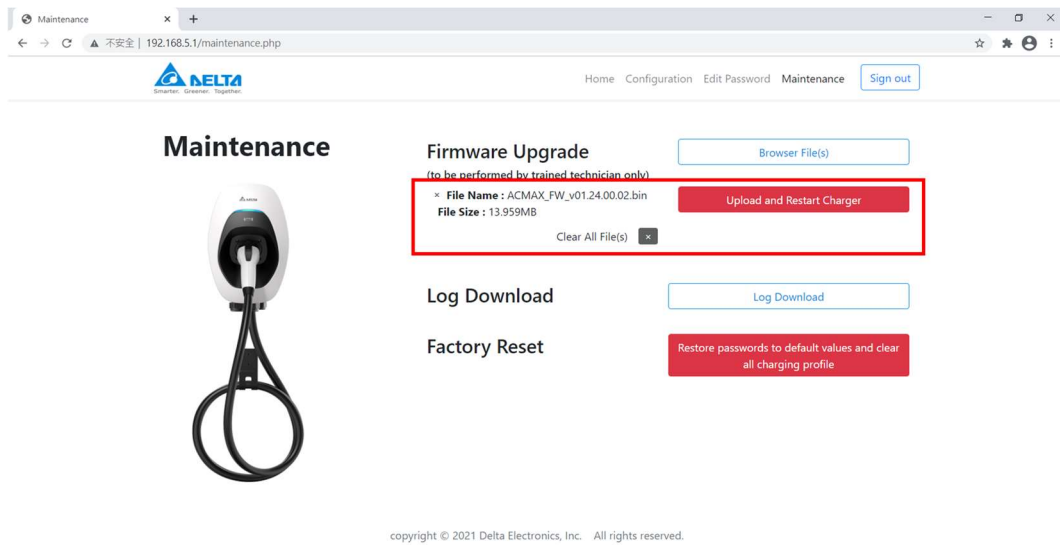


2. Choose the correct path and file to upload.

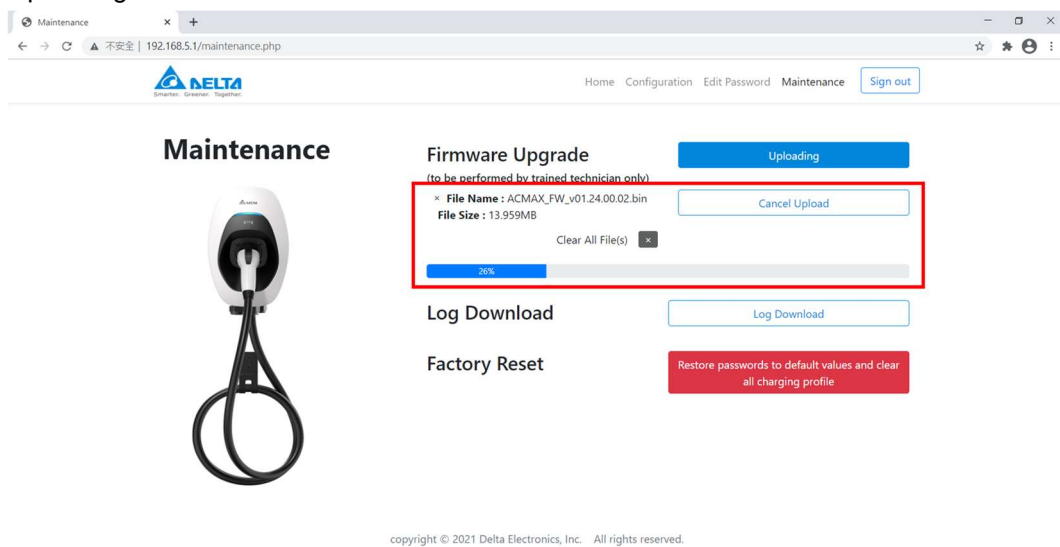


Note: please contact the local dealer or DELTA service partner for the latest firmware file.

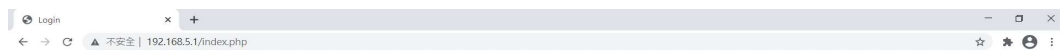
- Press the button "Upload and restart charger" to start uploading.



- Uploading the file.

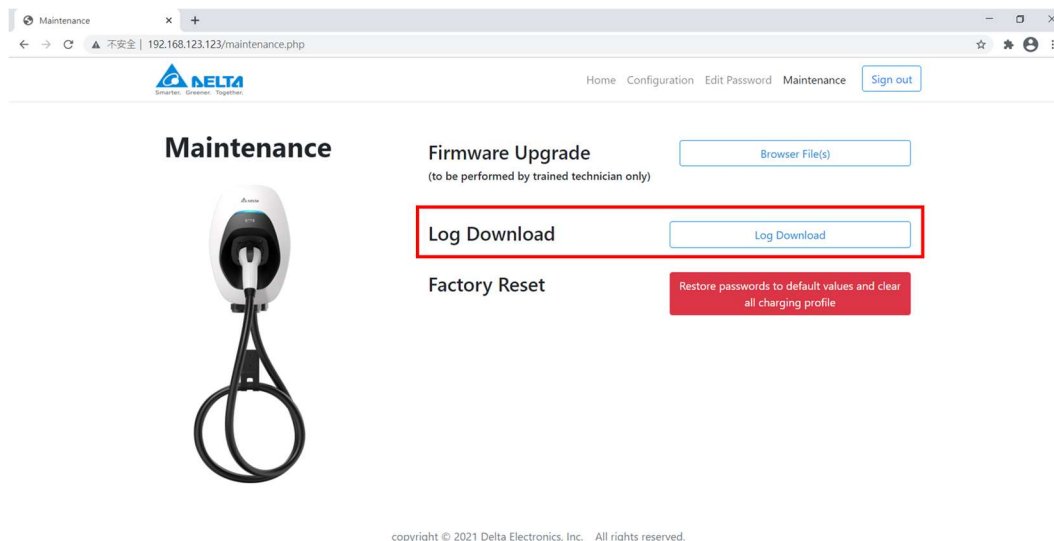


- After uploading, EVSE will restart automatically.



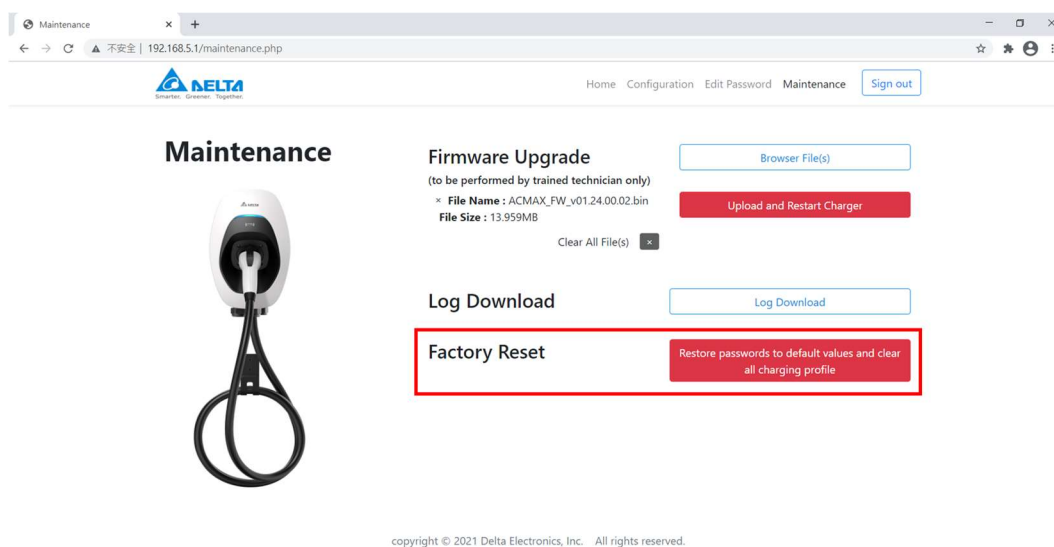
3.5.2 Log download

Press the button “Log download” to get the log file.



3.5.3 Factory reset

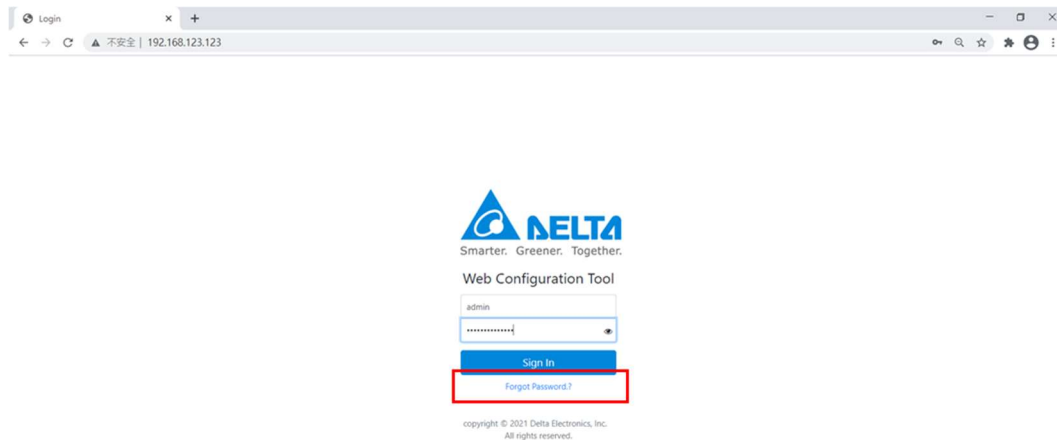
User can restore the EVSE to factory setting by pressing the button “Restore passwords to default values and clear all charging profile”.



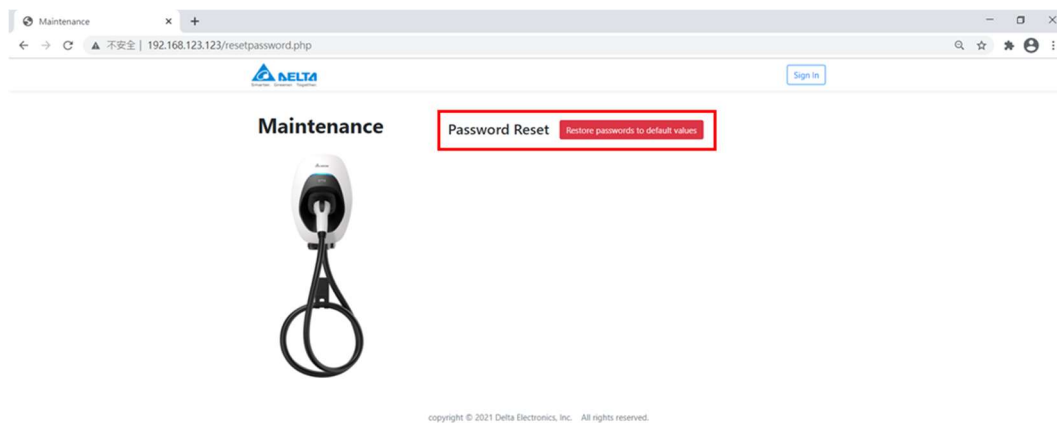
3.6 Forgot password

If user forgot the password, please follow below to recover.

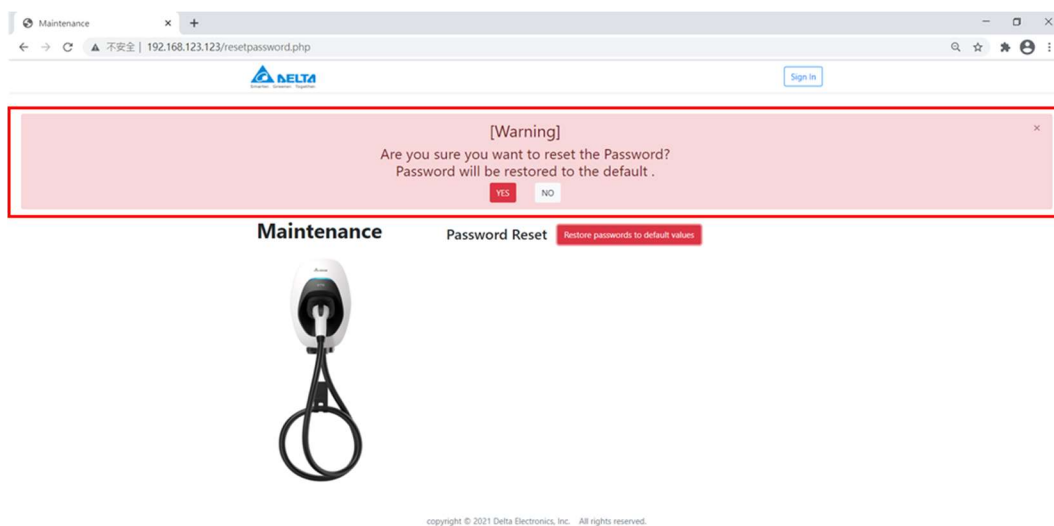
1. Click the “Forgot Password.?”.



2. Click the button “Restore passwords to default values”



3. Confirm if the user want to reset the password. After clicking the button “Yes”, the EVSE will restart automatically.



4 Operation

Turn on the upstream breaker. The indicator flashes in yellow during a system self-test. After the self-test completed, the indicator illuminates in blue and the EVSE is ready to charge.

4.1 Start charging

1. Connect the vehicle connector to vehicle inlet.
2. Place the RFID card over the sensor area to initiate the charging process.
Note:
 - a. Successful card detection is indicated by two short beeps. A long beeping sound indicates authentication failure. Please check your card and try it again.
 - b. The EVSE returns to standby mode if the vehicle connector is not connected to the EV within 60 seconds after card authentication.
3. The indicator flashes blue to indicate the charging is initiated.

4.2 Stop charging

1. Stop charging session at the vehicle or swipe the RFID card again to stop the charging process.
2. Disconnect the vehicle connector from the vehicle inlet.
Note: the plug would be locked by the EV and please unlock the plug if needed.
3. Recover the vehicle connector to vehicle connector inlet.

5 LED Indicator

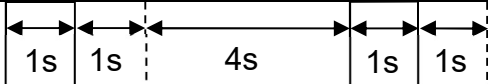
Status	Description
Black	Power off.
Yellow, fast flashing	Initial configuration and self-test, firmware upgrade or log download.
Blue	Standby mode (not connecting to EV).
Yellow	Ready to charge (connecting to EV).
Blue, slow flashing	Charging in progress.
Green	Charging process completed or network connection success.
Yellow, 1 Flash	Network connection fail
Yellow, slow flashing	Limited output power by OCPP command
Red, slow flashing	Refer to fault event.
Red	Failed self-test, general malfunction

5.1 Fault events

Status	Description	Action
Red, 1 Flash	High/under voltage protection	The EVSE will be auto-recovery once the voltage is normal. If not, please restart the EVSE or contact customer support.
Red, 2 Flashes	Ground fault protection.	Check the ground system, and wait for recovery.

Red, 3 Flashes	Ground does not correctly connect to the EVSE.	Check if ground (PE) is well connected.
Red, 4 Flashes	Over current protection.	Unplug the vehicle connector and plug it again.
Red, 5 Flashes	Over temperature protection.	Wait for recovery and check if any heat source around the EVSE. If yes, please try to remove the heat source.
Red, 7 Flashes	Control pilot signal error	Unplug the vehicle connector and plug it again. If not recovery, please contact customer support.

5.2 Symbol description

Status	Description
Slow flashing	Slow flashing (period = 2s, duty cycle = 50%)
Fast flashing	Fast flashing (period = 0.8s, duty cycle = 50%)
1 Flash	
2 Flashes	
3 or more Flashes refer to previous figures of time duration.	

6 Troubleshooting

Contact Customer Support if the EVSE appears to malfunction or if the LED indicators display a fault event. DO NOT open the EVSE, touch or remove the circuit protective devices or any other component.

Situation	Action
Indicator does not light	1. Make sure the power input is connected correctly and the power is within operating range of the unit. 2. Power cycle the EVSE. 3. If the problem persists, contact customer support.
Indicator does not flash after plugging vehicle connector	1. Check if the vehicle connector is fully inserted to EV 2. Check if the battery is full on EV 3. If the problem persists, contact customer support.
Indicator starts to flash in red while charging	1. Wait until the temporary error is resolved and the EVSE returns to normal condition, typically less than 10 seconds. 2. Unplug the vehicle connector. 3. Power cycle the EVSE. 4. If the situation persists, contact customer support.
Indicator illuminates in red	1. It might be a critical error (e.g. hardware fault). 2. Unplug the vehicle connector. 3. Power cycle the EVSE. 4. If the situation persists, contact customer support.

7 Specifications

Version	Smart
Model name	EIAW-U11KSSU7A04 or EIAW-U19KSSU7A04
Charge method	AC level 2
Charging interface	SAE J1772
Input/output rating	208-240 Vac, 1-phase, 48 or 80 A max., 60 Hz
Input wiring	1-phase: L1, L2, PE
Grounding system	TT/TN
Standby power	< 5 W*
Altitude	2000 m
Ground fault circuit interrupter	Integrated (CCID20)
Surge protection	Class II
Electrical protection	Over current protection, short circuit protection, over voltage protection, under voltage protection, ground fault protection, surge protection, over temperature protection
Cold load pick-up	Randomized delay between 5 and 100 seconds before the charge resume after power outages.
Status indicators	Blue, green, red, yellow
Network interface	Bluetooth, Ethernet, WiFi or Cellular
Charging protocol	OCPP 1.6J
Card reader	RFID card reader compliant to ISO/IEC 14443 A/B
Operating temperature	-22°F to 122°F (-30°C to 50°C)
Storage temperature	-40°F to 176°F (-40°C to 80°C)
Relative humidity	< 95%, non-condensing
Length of charging cable	25 ft, straight cable
Ingress protection	NEMA 3R
Impact protection	IK09
Cooling	Natural cooling
Dimension (H x W x D)	371 x 218 x 167 mm (14.6 x 8.6 x 6.6 inch), excluding charging cable, mounting bracket and cable holder
Net weight	9.5 kg*
Compliance/ certificate	UL, cUL, Energy Star

*Depends on model configuration

8 Moving, Transportation and Storage



WARNING

- Improper moving or storage of this device may result in a risk of fire or electric shock.
- Do not lift or carry the EVSE by the cords.
- Do not allow the connector cable to drag or touch the ground when moving the EVSE.
- This device should be stored in a dry location between -40°F (-40°C) and 176°F (80°C).

9 Cleaning

Regular cleaning of EVSE is required while standby state. Using a soft damp cloth with clear water is highly recommended and make sure no water enters the vehicle connector.

10 Warranty

Customer service can provide more information on the terms of warranty. However, the following cases are not covered by the warranty.

- Defects or damage caused by not using the product as specified in the Installation and Operation Manual.
- Costs and damage caused by repair work which is not provided by DELTA approved authorized specialist or electrician.

11 Disposal



The EVSE is an electronic device and must be disposed of separately from normal house wastes. Please have it disposed in compliance with the waste disposal and recycle local regulation.