Installation and operation manual

AC MAX EU-Smart version



Version: 1.0.2 Issue date: 2022-02





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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 Battery Electric Vehicle or Plug-in Hybrid Electric Vehicle in accordance with the following regulations:

- Mode 3 charging according to IEC 61851-1 for electric vehicles with non-gas discharged batteries.
- Use with plugs and sockets according to IEC 62196.
- 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 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:

- 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.



v1.0.2

- Use a measuring instrument to check that there is no voltage.
- Use appropriate protection when connecting to the main power distribution cable.

DANGER



!

Risk of 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.

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).



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

$\mathsf{EIAW} - \underline{X} \ \underline{XX}\mathsf{K} \ \underline{X} \ \underline{X}$

1 2 3 4 5 6 7 8

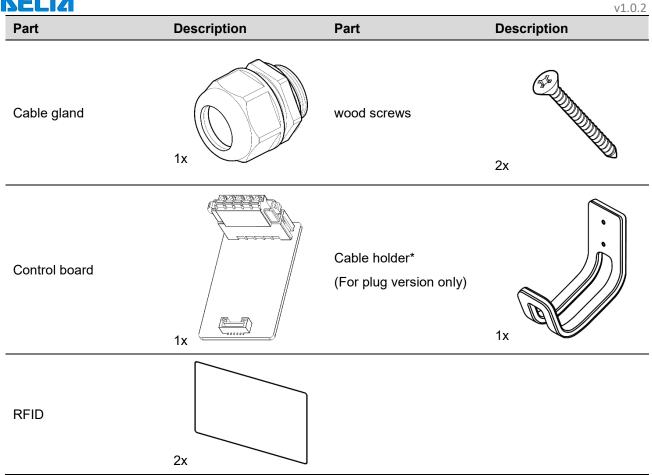
Segment	ltem	Description		
	E: AU/NZ, EMEA, SEA,			
	G: China			
1	J: Japan	Indicate the available region		
	T: Taiwan			
	U: Canada, US			
	From 1-99:			
2	7: 7 kW	Indicates the neminated maximum output newer		
Z	11: 11 kW	Indicates the nominated maximum output power		
	22: 22 kW			
3	S: Single phase	Indicator the phase of input rating		
3	T: Three phase	Indicates the phase of input rating		
	B: Basic			
4	S: Smart	Indicates the version of EVSE		
	P: Premium			
	U: SAE J1772 plug			
	E: IEC 62196-2 plug			
5	S: IEC 62196-2 socket	Indicates the charging interface		
	H: IEC 62196-2 shutter			
	G: GB/T 20234.2 plug			
	From 1-9:			
6	5: 5 m	Indicates the cable length (0 for socket or shutter)		
	7: 7 m			
	From A-Z:			
7	A: Generation A	Indicates the product generation		
	B: Generation B			
8	From 01-99	Indicates the serial code of EVSE		



1.6.1 Scope of delivery

Part	Description	Part	Description
EVSE*	1x	Mounting bracket	о о о о 1х
Template	1 1	Torx T30 mounting bolts	4x
No. 8 wood screws	2x	1/4 inch expansion bolts	2x
Quick installation guide	AC MAX Basic Dati tradiur Sara	Safety instructions	transformation of the second s





*Depends on model configuration

1.6.2 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



1.6.3 Installer-supplied components

Installers may prepare the following parts:

- 1. Conduit of appropriate size or cable gland (M32) for input power wires to ensure the water resistance.
- 2. DIN 46228-4 Cord end terminal:

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

Current	16 A	32 A	
Pin length	18 mm	18 mm	18mm
Wire range	4 mm^2	10 mm ²	

3. Upstream breakers:

To reduce the risk of fire, only connect to a circuit with circuit breaker conforming to IEC 60898-1.

Model	Circuit breaker specification	
EIAW-E7K	40A min., 230V min., 2 poles, Type B	
EIAW-E11K	20A min., 400V min., 4 poles, Type B	
EIAW-E22K	40A min., 400V min., 4 poles, Type B	

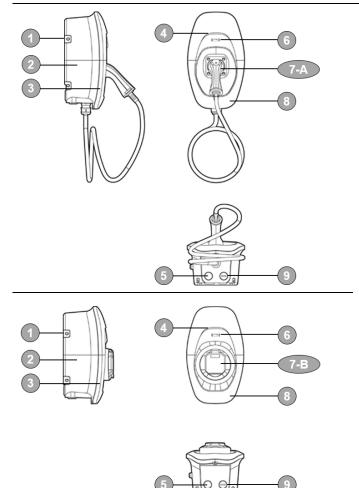
4. SIM card:

SIM card	Width	Height	Depth	4G support band
Micro SIM	15 mm	12 mm	0.76 mm	Band 1, Band 3, Band 7, Band 8, Band 20

5. Ethernet cable:

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





- 1. Mounting bracket
- 2. Body
- 3. Middle cover
- 4. LED bar
- 5. Cable gland
- 6. RFID reader
- 7-A. Vehicle connector
- 7-B. Socket/ socket with shutter
- 8. Front cover
- 9. Water proof cap

2 Installation

Before you start, please read the following instructions:

2.1 Prepartion 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

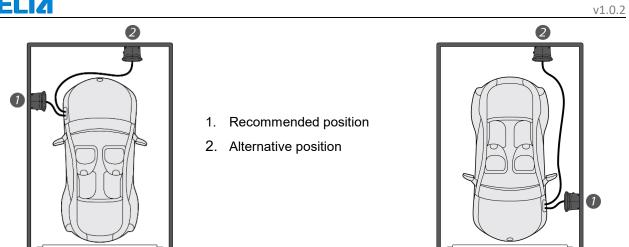
conditions and protection at the site:

- 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.

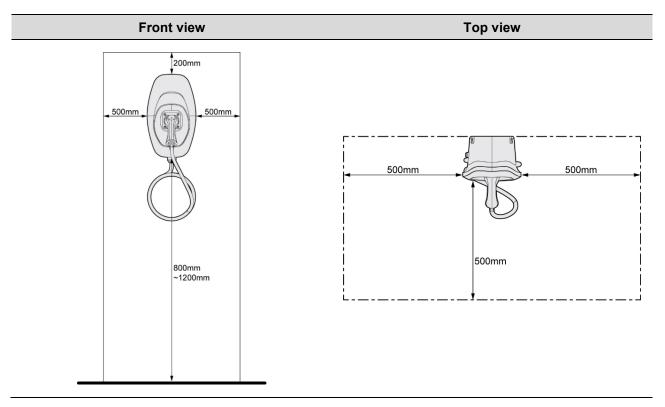






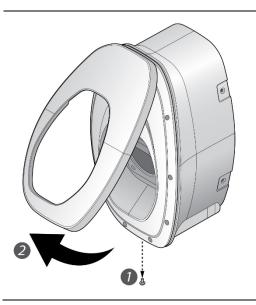
2.1.3 Recommended installation space

Installers shall follow applicable accessibility requirements for the mounting position. The EVSE shall be mounted at a height between 800 mm (31.5 inches) and 1200 mm (47.2 inches) above ground.



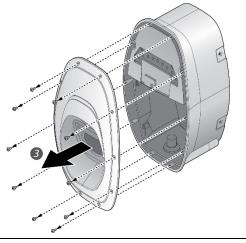
2.2 Installation steps

2.2.1 Remove front cover and middle cover



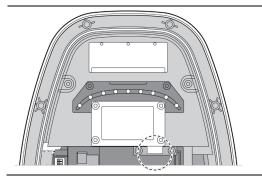
- 1. Remove the screw located at the bottom of front cover by using a Torx T20 screwdriver.
- 2. Pull the front cover upward to separate from the EVSE.





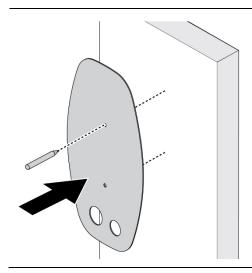
- Remove the screw located at the middle cover by using a Torx T20 screwdriver.
- 4. Remove the middle cover.

2.2.2 (Optional) insert SIM card for cellular function



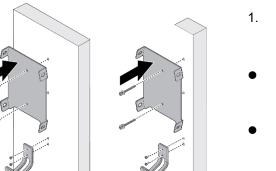
Insert the SIM card into the socket and ensure the connection is well connected.

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).



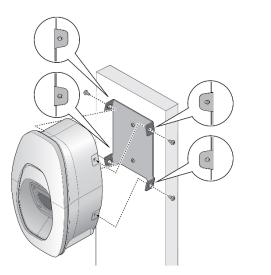


- The cable holder is optional and depicted in the figure for demonstration purposes. The following are recommended bolt types:
- Masonry walls: 1/4" expansion bolts.

Torque: 8.8 N·m (78 lb·in)

Finished walls supported by wood studs: #8 wood screws of 2" or above screw length.

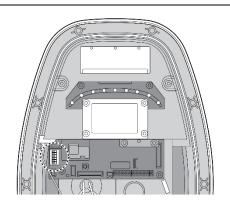
Torque: 3 N·m (26 lb·in)



- 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



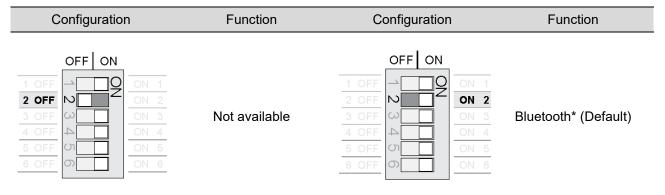
2.2.5.1 Phase unbalance protection

Choose the pin 1 to enable or disable the phase unbalance protection. When the function enabled, the protection will limit the phase unbalance to 15 A.

Configuration	Function	Configuration	Function
OFF ON 1 OFF ON 2 OFF ON 3 OFF 4 OFF 5 OFF 6 OFF 0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6	Disable (Default)	OFF ON 1 OFF 2 OFF 3 OFF 4 OFF 6 OFF 0 0N 1 0N 2 0N 3 0N 4 0N 4 0N 5 0N 6	Enable

2.2.5.2 Authorization mode

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



*Bluetooth connection is reserved for commissioning purpose.

2.2.5.3 Grounding system

Choose the pin 3 to configure the grounding system for TT/TN or IT system.

Configuration	Function	Configuration	Function
OFF ON 1 OFF ON 2 OFF OFF 3 OFF 0 0 1 0 0 2 0 0 3 0 0 4 0 0 4 0 0 5 0 0 6 0 0 6	TT/TN (Default)	OFF ON 1 OFF 2 OFF 3 OFF 4 OFF 5 OFF 6 OFF 0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6	IT



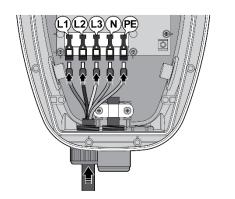
Choose the pin 4-6 to configure the maximum output current ratings.

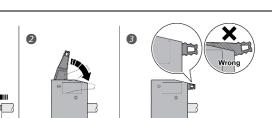
Configuration	Max. Current Ratings	Configuration	Max. Current Ratings
OFF ON 1 OFF ON 2 OFF ON 3 OFF ON 4 OFF ON 4 OFF ON 5 OFF ON 0 0 1 0 0 2 0 0 3 0 0 4 0 0 6	6 A (Default)	OFF ON 1 OFF ON 2 OFF ON 3 OFF 4 OFF 5 OFF 6 OFF ON 0 0 1 0 0 2 0 0 3 0 0 4 0 0 6	16 A
OFF ON 1 OFF ON 2 OFF ON 3 OFF ON 1 ON 2 ON 2 ON 3 4 OFF A 5 OFF ON 0 0 1 ON 2 ON 3 ON 4 ON 5 0 0 6	8 A	OFF ON 1 OFF 2 OFF 3 OFF 4 OFF 5 OFF 6 OFF 0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6	20 A*
OFF ON 1 OFF 2 OFF 3 OFF 4 OFF 5 OFF 6 OFF 0 0 1 0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6	10 A	OFF ON 1 OFF 2 OFF 3 OFF 4 OFF 6 OFF 0 0 1 0 0 1 0 0 2 0 0 3 0 0 4 0 0 5 0 0 6	24 A*
OFF ON 1 OFF ON 2 OFF ON 3 OFF ON 4 OFF ON 5 OFF ON 6 OFF ON 0 ON 1 0 N 2 0 N 3 0 N 4 0 N 5 0 N 6	12 A	OFF ON 1 OFF ON 2 OFF ON 3 OFF ON 4 OFF 5 OFF ON 4 OFF 6 OFF ON 0 N 1 0 N 2 0 N 3 0 N 4 0 N 5 0 N 6	32 A*

*Depends on model configuration



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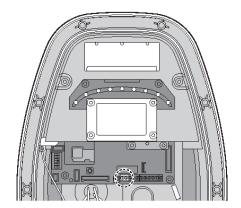
1. Install the copper wire as described. The section of copper wire connected to terminal shall be reserved enough tolerance to prevent any tension or stress from the external force.

Note: Copper wire type: 10 mm², 70°C.

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.



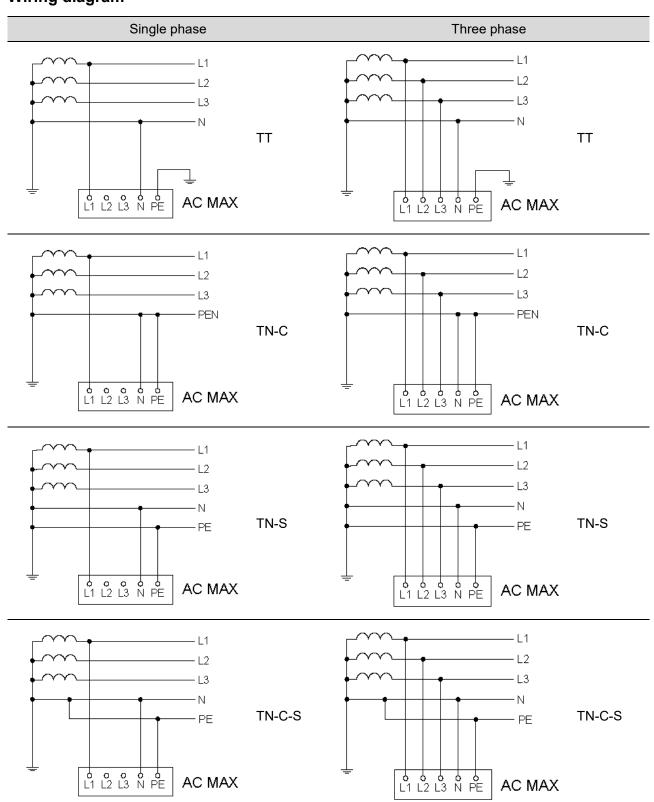
<u>Dry contact</u>

Use appropriate wires (0.75 mm^2) and connect each of them to the correct terminal connector for dry contact connections shown on wiring schemes (Left 1: NO, Left 2: COM).

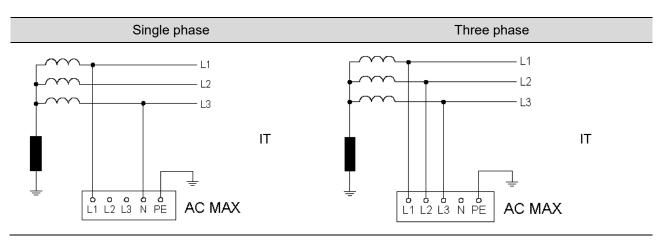
Note:

The product provides a closing signal when unable to close the output. There are breaker types that trip to stop output when a closing signal is accepted. It is mandatory requirement for Netherland and Italy.









Note: To fulfill requirements for electrical installations in UK, the following shall be observed.

- 1. When installed in a TN systems, the supplying circuit shall not include a PEN conductor(combined protective and neutral).
- If the power grid belongs to TN-C-S system, the charger needs to be grounded separately to TT system. A PME earthing facility shall not be used as the means for the protective conductor contact of a charging point located outdoors.

Note: To fulfill requirements for electrical installations in Singapore, the following shall be observed.

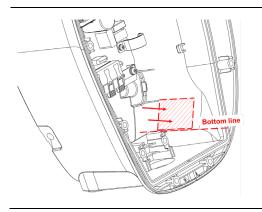
1. Emergency switching (e.g. emergency button) shall be installed to isolate the a.c. electricity supply (mains) from the EV charging station in case of risk of electric shock, fire or explosion.

2.2.7 (Optional) active power control

Users can control the EVSE with external components (e.g. a ripple control receiver from the power supplier, a domestic controller, a time switch, a combination lock, a photovoltaic system, etc.).

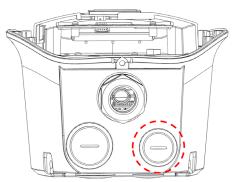
Note:

- 1. Ensure that hazardous voltages are isolated safely.
- The application is taken into consideration for that charging station with a rated power > 12 kVA shall be equipped with control equipment for network integration via an interruptibility by the network operator in Germany.

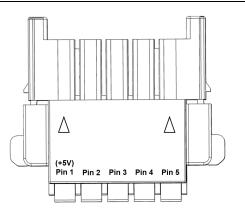


1. Based on the bottom line, attach the control board to the inner surface of EVSE.



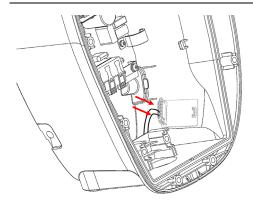


2. Remove the water proof cap and pass through the signal cable with appropriate conduit or cable gland.

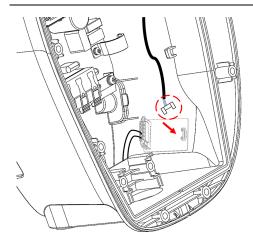


3. Connect the signal cable according to pin definition (2.2.7.1) and must connect to the Pin 1 (+5V).

Note: suggested wire of signal cable: 1.5 mm^2 .



4. Assemble the connector



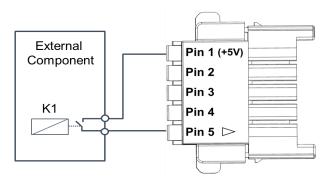
5. Connect the control board



User can connect the external component with signal cable based on following configuration. The output power will be adjusted by the following pin definition once the grid power is limited by network operator. The power limitation is based on rated output power configured by dip switches (2.2.5.4).

2.2.7.1.1 Configuration A

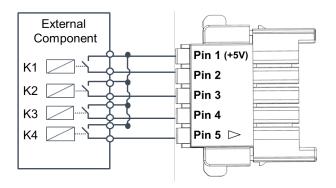
Connect the signal cable with Pin 1 and Pin 5 as below:



Pin 2	Pin 3	Pin 4	Pin 5	Power limitation
Low	Low	Low	Low	Output 100% power
Low	Low	Low	High	Stop charging

2.2.7.1.2 Configuration B

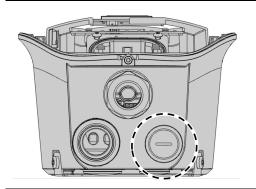
Connect the signal cable with Pin 1 to Pin 5 as below:



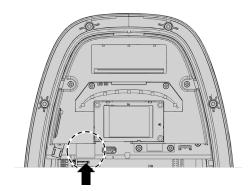


Pin 2	Pin 3	Pin 4	Pin 5	Power limitation
Low	Low	Low	Low	Output 100% power
High	Low	Low	Low	Output 87.5% power
Low	High	Low	Low	Output 75% power
High	High	Low	Low	Output 62.5% power
Low	Low	High	Low	Output 50% power
High	Low	High	Low	Output 37.5% power
Low	High	High	Low	Output 25% power
High	High	High	Low	Output 12.5% power
Low	Low	Low	High	Stop charging

2.2.8 (Optional) connect RJ45 port for Ethernet function

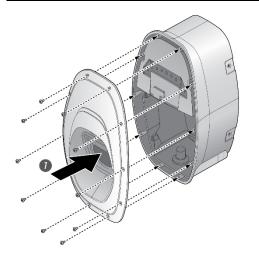


1. Remove the water proof cap and pass through the Ethernet cable with appropriate conduit or cable gland.



2. Connect the Ethernet cable into the RJ45 port.

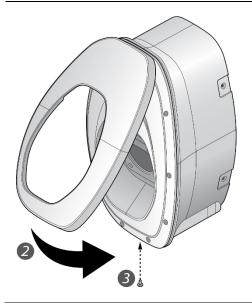




1. Recover the middle cover on the EVSE and secure the middle cover by using Torx T20 screwdriver.

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

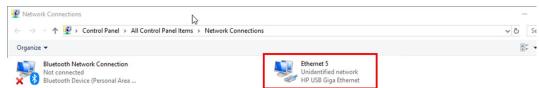
AC MAX can use the **Web Configuration Tool** to do the configuration, firmware upgrade, log download, etc. General process:

- 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" if needed.
- 4. Start to charge your EV with operating instruction.



3.1.1 Through "Ethernet" connection

1. Click network icon *f* in the Taskbar. Open "network and internet setting" and choose the connected network.



2. Choose TCP/IPv4 and enter the IP address

IP address: 192.168.123.101

Ethernet 5 Properties	Internet Protocol Version 4 (TCP	/IPv4) Properties
etworking Sharing	General	
Connect using:		automatically if your network supports eed to ask your network administrator
This connection uses the following items:	Use the following IP address	
 UritualBox NDIS6 Bridged Networking Driver UritualBox Packet Driver (NPCAP) 	IP address:	192 . 168 . 123 . 101
Gos Packet Scheduler Internet Protocol Version 4 (TCP/IPv4)	Subnet mask:	255 . 255 . 255 . 0
Microsoft Network Adapter Multiplexor Protocol	Default gateway:	
Image: Microsoft LLDP Protocol Driver Image: Internet Protocol Version 6 (TCP/IPv6)	Obtain DNS server address	automatically
< >	• Use the following DNS serv	er addresses:
Install Uninstall Properties	Preferred DNS server:	
Description Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server:	
wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit	t Ad <u>v</u> anced

3.1.2 Through "Wifi" connection

1. Click network icon *f* 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")

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(i.	
(i.	
(i.	
	<u>& Internet settings</u> ngs, such as making a connection metered.
G.	மூ (ழ) Mobile
Wi-Fi	Airplane mode hotspot

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



1. Open web browser.

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

2. Enter the web address and login.

Default web address: 192.168.123.123 (Ethernet)/ 192.168.5.1(WiFi)

User account: admin

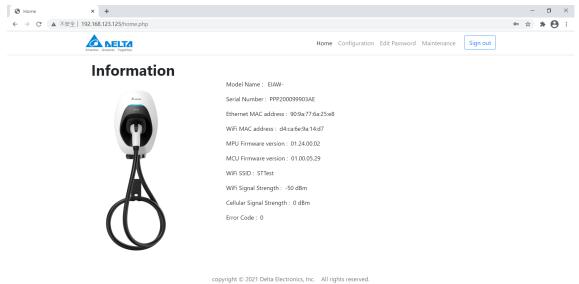
Password: please refer to the last page of "Quick Installation Guide"





Note: "Failed login attempts" is allowed 5 times and the account will be locked afterwards. User can try it again after 5 minutes.

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





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 directly.

Smarter. Greener. Together.	Home Configuration Edit Password Maintenance Sign out	
Configuration	○ Operating with OCPP Central System(default) ● Operating without OCPP Central System	
J	Authentication	
Auros	Delta RFID Card	
200	Maximum Charging time	
	No Limit(Default)	
	Max Charging Current(A)	
	32 \$	
and a	System Time	
	2000/03/20-00:30:07	
	Wireless access to Web Configuration Tool	
	Wifi AP Mode	
	Save and Restart Charger	

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 directly.



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← → C ▲ 不安全 192.168.123.123/configuration.php		* * 😁 i
Smarter. Greener. Together.	Home Configuration Edit Password Maintenance Sign out	
Configuration	Operating with OCPP Central System(default) Operating without OCPP Central System	
5	Charge Box ID	
Avea	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.

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	Home Configuration Edit Password Maintenance Sig	jn out		*
	Max Charging Current(A)			
	32	\$		
	System Time			
	2000/03/20-00:32:11			
	Communication Ethernet(default) Wifi Cellular			
	Network Mode			- 11
	Static IP	٠		- 1
	IP address			- 1
	192.168.123.123			- 1
	Subnet Mask			- 1
	255.255.255.0			- 1
	Gateway			- 1
	192.168.123.254			- 1
	DNS server			- 1
	192.168.123.1			- 1
	Wireless access to Web Configuration Tool			- 1
	Wifi AP Mode			- 1
	Save and Restart Charger			
				- 1
				- 1
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3.3.2.2 Connection through "Wifi"

Enter the information based on your wireless AP setting.

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Smarter, Greener, Together,	Home Configuration Edit Password Maintenance Sign out	
and a	Offline Policy	
MA.	Local list Authentication(default)	
	Max Charging Current(A)	
	32 ¢	
	System Time	
	2000/03/20-00:32:11	
	Communication O Ethernet(default)	
	SSID	
	STTest	
	Security	
	÷	
	Password	
	Network Mode	
	DHCP ¢	
	Wireless access to Web Configuration Tool	
	Wifi AP Mode	
	Save and Restart Charger	

3.3.2.3 Connection through "Cellular"

Enter the information based on your contract with telecom operator.

	Home Configuration Edit Password Maintenance Sign out	× * O	*
Smarter. Greener. Together			
	OCPP Version		
	OCPP1.6J(default)		
ter la t	Offline Policy		
	Local list Authentication(default)		÷
	Max Charging Current(A)		
	32 \$		
	System Time		
	2000/03/20-00:32:11		
	Communication 〇 Ethernet(default) 〇 Wifi		
	APN		
	internet		
	CHAP username		
	0		
	CHAP password		
	Wireless access to Web Configuration Tool		
	Wifi AP Mode		
	Save and Restart Charger		
			- 12



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

Change Password × + → C ▲ 不安全 192.168.123.123/password.php		☆ * ⊖
Smarter. Greener. Together.	Home Configuration Edit Password Maintenance Sign out	
Change Password	Please Select Username	
5	admin 🗢	
Am	Current Password	
	Current Password 👁	
	New Password	
	New Password	
- K	Confirmed New Password	
\mathbf{A}	Confirm new Password	
	Save and Sign out	
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3.5 Maintenance

To get the better charging 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	× +		- a ×
← → C ▲ 不安:		Home Configu	* * O : uration Edit Password Maintenance Sign out
	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
	A		
	\bigcirc		
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3.5.1 Firmware update

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

Home Cor	nfiguration Edit Password Maintenance Sign out	
Firmware Upgrade (to be performed by trained technician only	Browser File(s) y)	
Log Download	Log Download	
Factory Reset	Restore passwords to default values and clear all charging profile	
	Firmware Upgrade (to be performed by trained technician only Log Download	Firmware Upgrade Browser File(s) (to be performed by trained technician only) Log Download Log Download Log Download Factory Reset Restore passwords to default values and clear

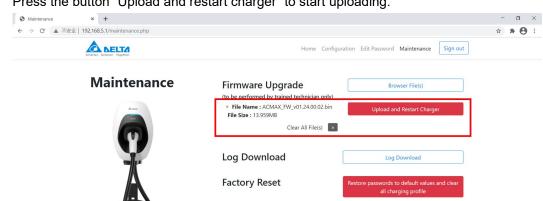
2. Choose the correct path and file to upload.

♥ 開設							-			×
← → • • <mark>]</mark> >	> 本機 > 桌面 > Fin	mware Upgrade				~ (り 授尋 Firm	ware Upgrad	e	٩
組合管理 ▼ 新増資	龍料夾									0
★ 快速存取	□ 名稱	^	修改日期	類型	大小					
	🗷 ACMAX	<_FW_v01.24.00.02.bin	2021/1/28 下午 0	BIN 檔案	13,632 KB					
🔍 本機 🇊 3D 物件										
↓ 50 10 HT ↓ 下戦										
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♪ 音樂										
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Note: please contact the local dealer or DELTA service partner for the latest firmware file.



3.	Press the button "Upload and restart charger" to start uploadin	2
J.		IU.



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4. Uploading the file.

Maintenance x +			- a ×
← → C ▲ 不安全 192.168.5.1/maintenance.php			☆ * Θ :
Smarter. Greener. Together.	Home Configur	ration Edit Password Maintenance Sign out	
Maintenance	Firmware Upgrade	Uploading	
A	× File Name : ACMAX_FW_v01.24.00.02.bin File Size : 13.959MB Clear All File(s) ★	Cancel Upload	
X	Log Download	Log Download	
	Factory Reset	Restore passwords to default values and clear all charging profile	
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5. After uploading, EVSE will restart automatically.





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3.5.2 Log download

Press the button "Log download" to get the log file.

Note: user may describe your question and copy the file when contacting the local dealer or DELTA service partner.

← → C ▲ 不安:	全 192.168.123.123/maintenance.php Smarter. Greener. Together.	Home Configu	aration Edit Password Maintenance Sign out	☆ * ⊝ :
	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	
	A			
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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 Maintenance ← → C ▲ 不安 	× + 全 192.168.5.1/maintenance.php		- □ × ★ # ⊖ :
	Ersarter. Greener. Together.	Home Configuration Edit Password Maintenance Sign out	7
	Maintenance	Firmware Upgrade Browser File(s) (to be performed by trained technician only) * File Name : ACMAX_FW_v0124.00.02.bin File Size : 13.959MB Clear All File(s) *	
	X	Log Download Log Download Factory Reset Restore passwords to default values and clear	1
	\bigcirc	all charging profile]
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3.6 Forgot password

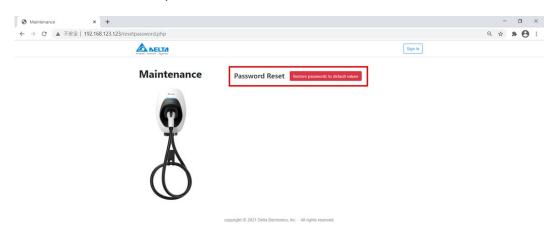
If user forgot the password, please follow below to recover.

1. Click the "Forgot Password.?".

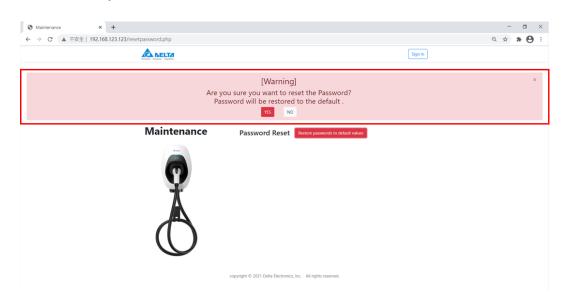
-	
🛛 Login x +	- a ×
← → C ▲ 不安全 192.168.123.123	• Q 🕁 🗰 😝 🗄



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.



v1.0.2



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

- Connect the vehicle connector to vehicle inlet.
 Note: for socket or socket with shutter model, please connect the plug to EVSE first.
- 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.

Status	Description
Black	Power off.
Yellow, fast flashing	Initial configuration and self-test
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 active power control or OCPP command, firmware upgrade or log download.
Red, slow flashing	Refer to fault event.
Red	Failed self-test or general malfunction.

5 LED Indicator



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, 6 Flashes	Input mis-wired.	Swap the Line (L) and Neutral (N).
Red, 7 Flashes	Control pilot signal error, Gun lock error/fault	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 = 2 s, duty cycle = 50%)
Fast flashing	Fast flashing (period = 0.8 s, duty cycle = 50%)
1 Flash	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
2 Flashes	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

3 or more Flashes refer to previous figures of time duration.



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



Specifications

Version	Smart
Charging mode	Mode 3
Charging interface	IEC 62196-2: Type 1 plug, Type 2 plug, Type 2 socket, or Type 2
	socket with shutter
Input/output rating	220-240 Vac, single phase, 16 A or 32 A max., 50-60 Hz
	380-415 Vac, three phase, 16 A or 32 A max., 50-60 Hz
Input wiring	Single phase: L1, N, PE
	Three phase: L1, L2, L3, N, PE/ L1, L2, L3, PE (IT)
Grounding system	TT/TN/IT
Standby power	< 5 W*
Altitude	2000 m
Internal residual current detection	AC 30 mA, DC 6 mA
	(Follow IEC 62955 regulation "provided the automatic test function is
	performed at every switch on and at intervals once a day")
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	-30°C to +50°C (-22°F to +122°F)
Storage temperature	-40°C to +80°C (-40°F to +176°F)
Relative humidity	< 95%, non-condensing
Length of charging cable	5 m, straight cable
Ingress protection	IP55
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	3.9 kg*
Compliance/ certificate	CE, UKCA

*Depends on model configuration



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.

9 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.

10 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.