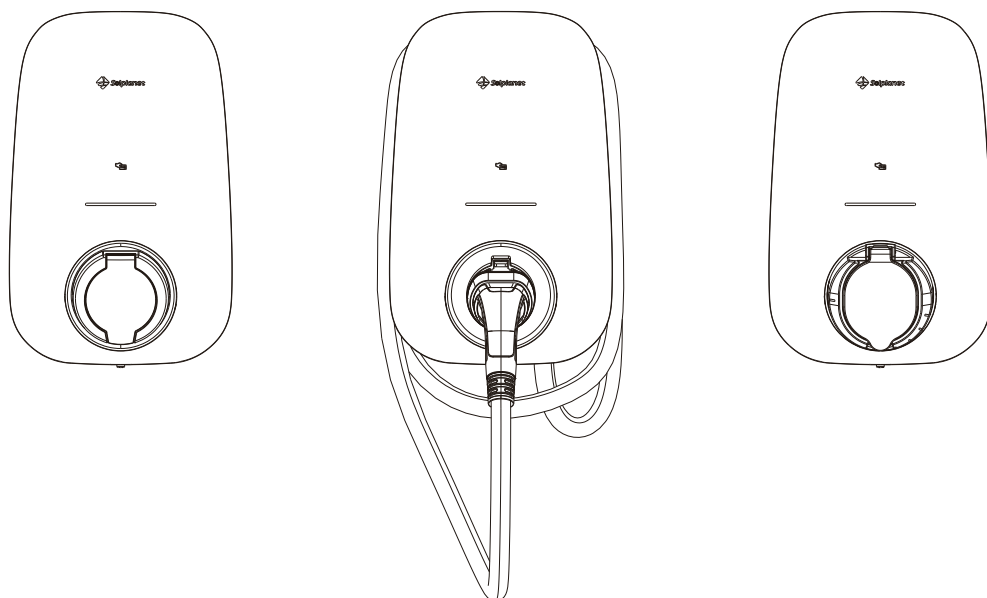


Quick Installation Guide

SOL APOLLO Series

SOL7.4H-WP / SOL7.4H-WS / SOL7.4H-WSS / SOL11H-WP /
SOL11H-WS / SOL11H-WSS / SOL22H-WP / SOL22H-WS /
SOL22H-WSS



I. Safety Instructions

Before installing, operating or maintaining this product, it is important to read and ensure that the contents of the following Quick Installation Guide are fully understood. Failure to follow all the specified instructions and procedures, will invalidate the warranty and as such Solplanet will not be liable for any claims for compensation.

DANGER

- Do not open the EV charger under load or when it is not electrically isolated.
- Do not use the EV charger if it is damaged.
- Do not extend the charging cable with an extension lead.
- Do not touch or insert foreign objects into the charger socket or the cable plug.
- Do not install the charger near flammable, explosive, or combustible materials.

WARNING

- All work on the equipment must only be carried out by qualified personnel who have read and fully understood all safety information and installation requirements contained in this guide.
- The EV charger must be out of reach from children.
- The EV charger must be connected to a protective earth conductor.
- The electrical installation must comply with all applicable local safety requirements, standards and guidelines.
- No modifications, not limited to mechanical or electrical, must be made to the EV charger.
- Components should not be changed or replaced by the end-user or unqualified personnel.

II. Mounting Environment

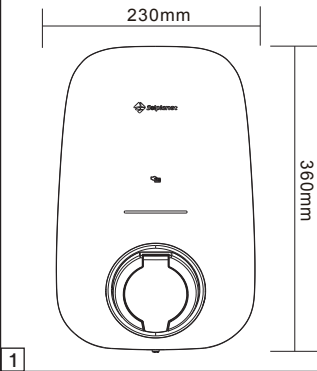
WARNING

- Danger to life due to fire or explosion.
- Despite careful construction, if installed incorrectly or mounted in unsuitable locations, electrical devices can cause fires. This can result in death or serious injury.
- Do not mount the EV charger in areas containing highly flammable materials or gases.
- Do not mount the EV charger in potentially explosive atmospheres.

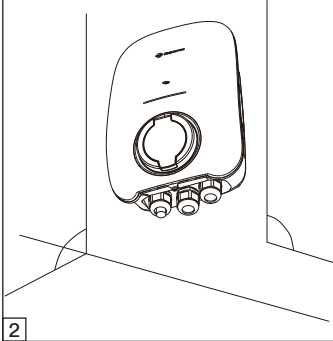
Requirements for mounting location:

- Please avoid exposing the EV charger to direct sunlight.
- The surface for mounting of the EV charger must be made of a non-flammable material.
- It is recommended that the location offer protection against rain, running water or other liquids.
- The location must offer sufficient air ventilation.
- The installation surface area requires at least 230 mm x 360 mm.

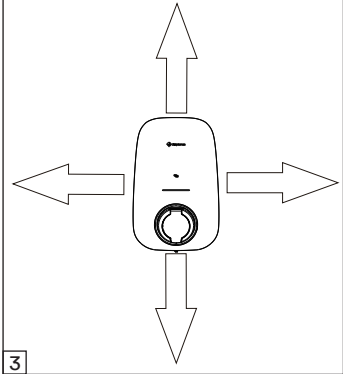
The installation requires at least an area of 230 mm x 360 mm.



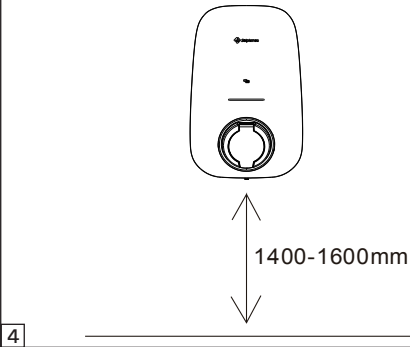
A solid and an even support surface, e.g. concrete or masonry, must be available for mounting.



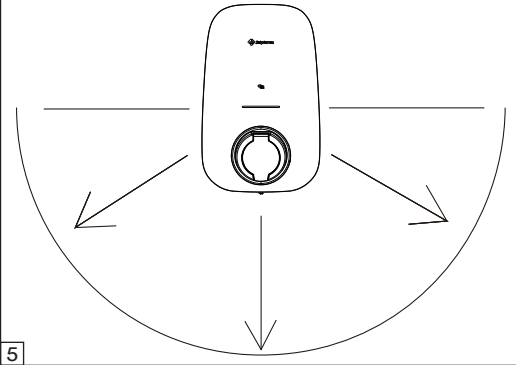
A minimum clearance of 200 mm from other equipment or objects must be maintained.



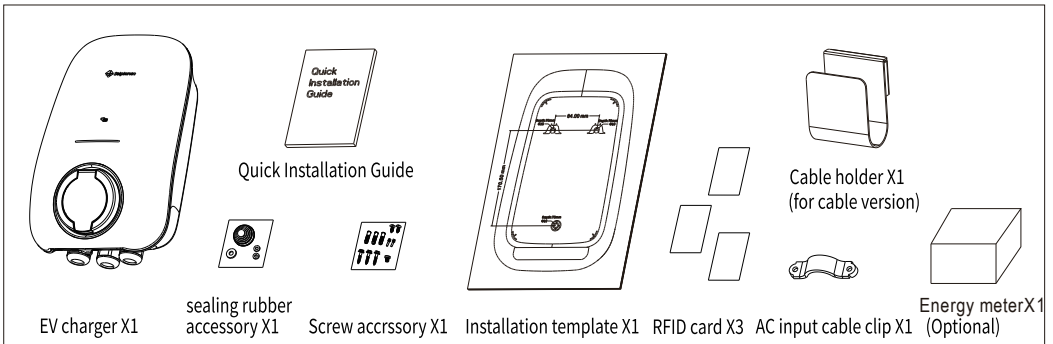
The installation height is between 1400 and 1600 mm (from the floor to the bottom of the EV charger housing).



The installation location must be freely accessible.



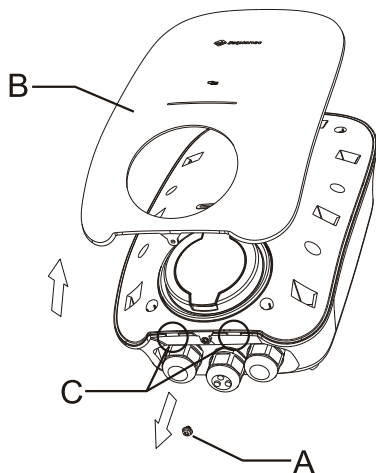
III. Scope of delivery



IV. EV Charger Mounting

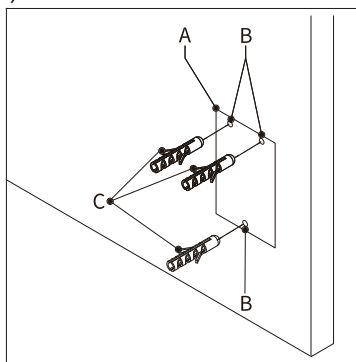
Removing the decorative cover

1. Remove the bottom screw (A) on the flat workbench.
2. It is recommended to start at the bottom of enclosure (C) when removing the decorative cover (B).



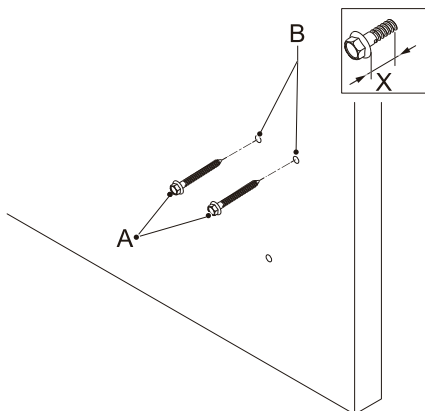
Drill three Ø10 mm holes at a depth of approximately 70 mm for the mounting screws

1. Hold the installation template (A) against the wall and ensure the installation is level by using a spirit level.
2. Mark the location for the three mounting holes (B).
3. Drill three mounting holes (B).
4. Insert the wall plugs (C) into the mounting holes (B).



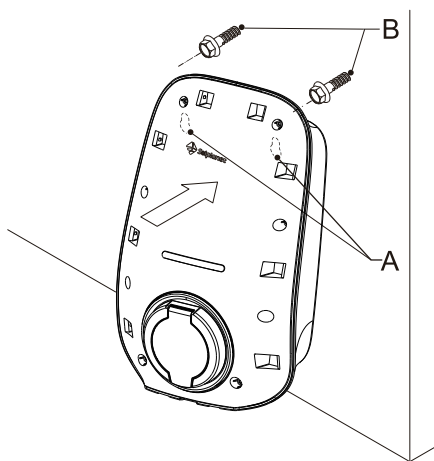
Inserting the upper mounting screws

1. Install the upper mounting screws (A) in the upper holes (B). The recommended torque is 4.4 Nm.
2. Ensure the screw protrudes at a length X out from the wall. The length of X is recommended to be 3 mm (0.12inch).



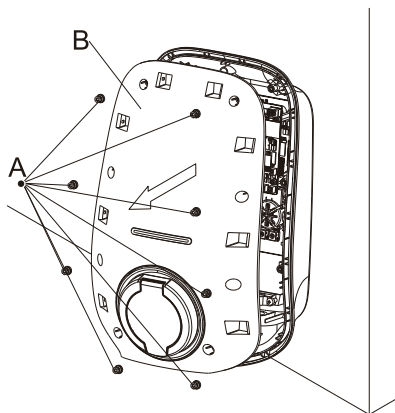
Installing the EV charger on the wall

1. Place the openings (A) over the upper mounting screws (B). The upper mounting screws support the EV charger.



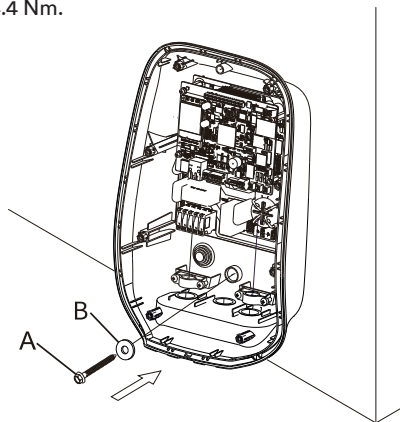
Removing the top cover

1. Remove all eight screws from enclosure, no need to take out anti drop screws from top cover(B).
2. Remove the top cover (B) (Take care with the cable which connect to the top cover on the socket version of the EV charger) .



Installing the inner screw on the bottom cover

1. Thread the screw (A) through the sealing rubber (B) located at the sealing rubber accessory. Then install the mounting screw (A) to secure the enclosure to the surface. The recommended torque is 4.4 Nm.



V. AC connection



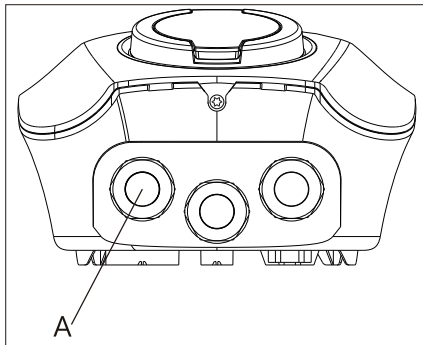
- All electrical installations must be done in accordance with all local and national rules.
- Ensure that all power sources have been electrically isolated before any electrical terminations have been made.

Installing the incoming AC supply cable

There are two options for installing the incoming AC supply cable.

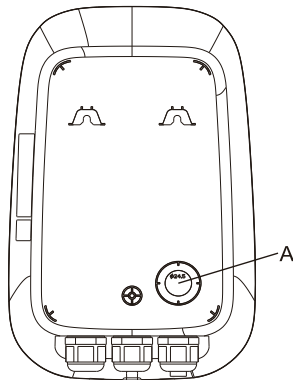
Option 1

Through the cable gland (A) located on the bottom of the enclosure.



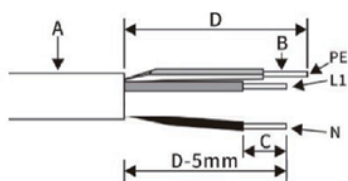
Option 2

Drilling a hole through the rubber seal located on the rear of the enclosure (A).



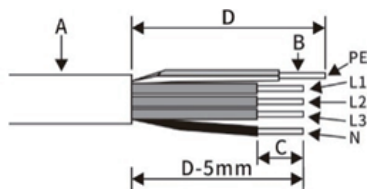
1. Strip the incoming AC supply cable as shown below, and crimp the copper wire to the appropriate OT terminal (according to DIN 46228-4, to be provided by the customer).

Single phase



Object	Description	Value
A	External diameter	18-21mm
B	Copper conductor cross-section	4-16mm ²
C	Stripping length of the insulated conductors	12mm
D	Stripping length of the cable outer sheath	75mm
Note: The PE conductor is at least 5mm longer than the L and N conductors.		

Three phase

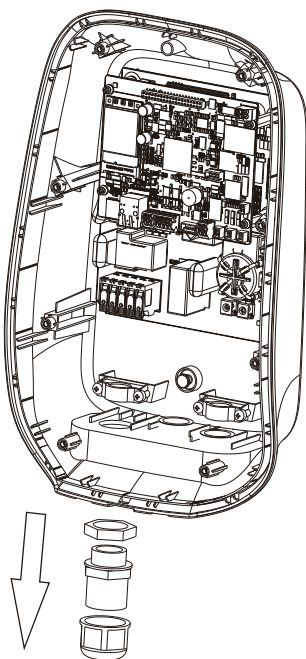


Object	Description	Value
A	External diameter	18-21mm
B	Copper conductor cross-section	4-16mm ²
C	Stripping length of the insulated conductors	12mm
D	Stripping length of the cable outer sheath	75mm
Note: The PE conductor is at least 5mm longer than the L and N conductors.		

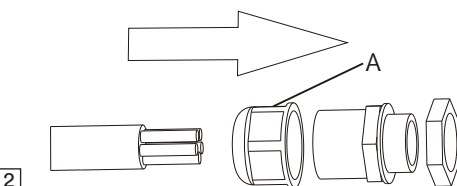
2. Install the incoming AC supply cable.

Option 1

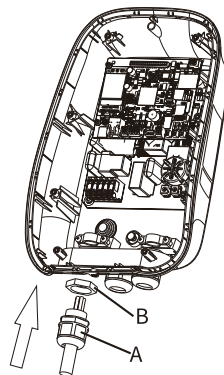
Remove the cable gland from the bottom of the enclosure.



Thread the incoming AC supply cable through the cable gland, loosen the nut (A).

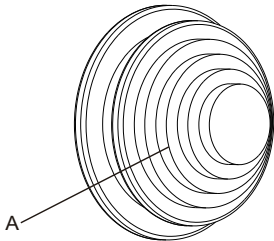


Install the cable gland on the bottom of the enclosure, fasten the nut (B). And then fasten the nut (A).



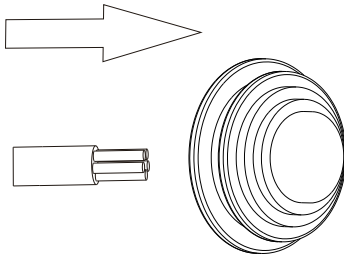
Option 2

According to the diameter of the incoming AC supply cable, select the appropriate circle on the rubber seal to penetrate.



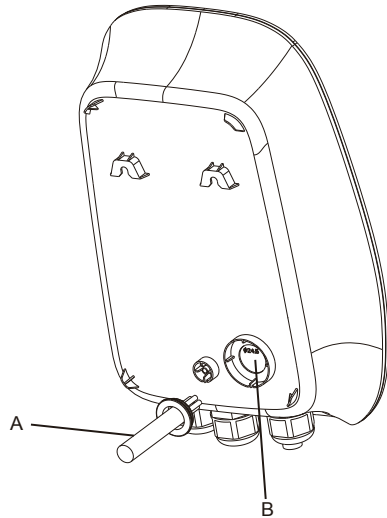
1

Thread the input cable through the rubber seal.



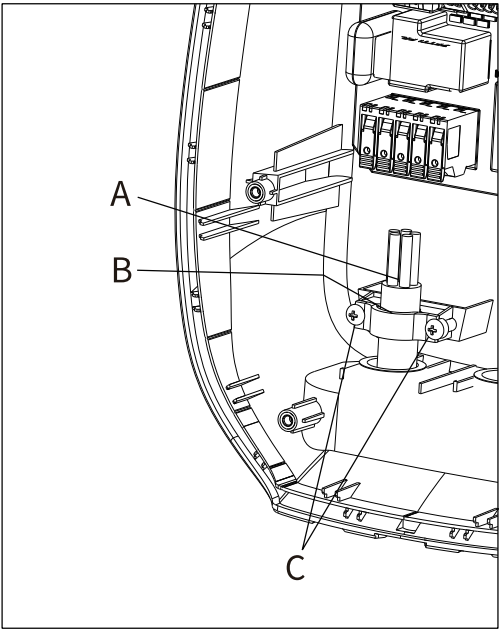
2

Install the rubber seal (A) on the rear of the enclosure (B).



3

3. Secure the cable (A) with the cable clip (B). Install the two screws (C) to secure the cable.
(For Option 1)



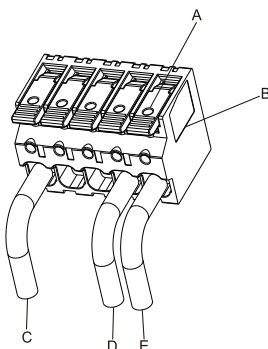
4. Terminate the incoming AC supply cable.

Single phase

Loosen the cable clamps (A) of the terminal block. Insert the cables into the terminal block (B).

Connect the below wires:

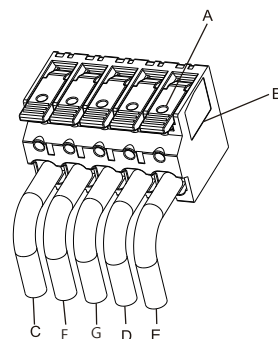
1. AC input wire (C)
2. Neutral wire (D)
3. Earthing wire (E)



Three phase

Loosen the cable clamps (A) of the terminal block. Insert the cable into the terminal block (B). Connect the below wires:

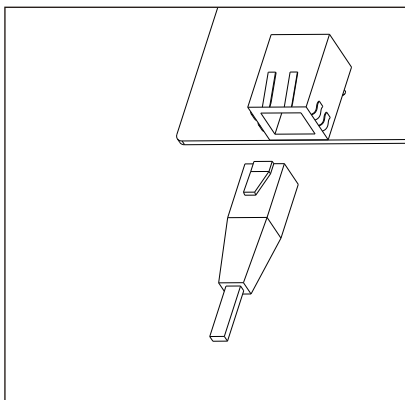
1. L1 (C)
2. L2 (F)
3. L3 (G)
4. Neutral wire (D)



VI. Communication setup

Ethernet/LAN connection

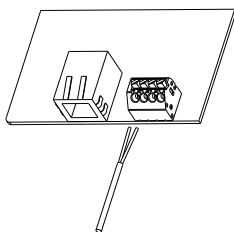
1. The ethernet cable type should be 100BaseTx with an RJ45 plug, The ethernet (RJ45) terminal pin assignment is as the table below (For the Option version with ethernet).



Pin	Name	Description
1	TX+	Tranceive data+
2	TX-	Tranceive data-
3	RX+	Receive data+
4	N/C	Not connected
5	N/C	Not connected
6	RX-	Receive data-
7	N/C	Not connected
8	N/C	Not connected

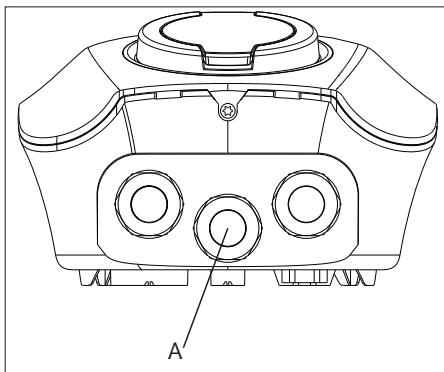
Energy meter connection

2. RS485 cable pin assignment is as the table below, a standard Ethernet cable is recommended. Strip the wire as shown in the figure, and crimp the copper wire to the appropriate OT terminal (according to DIN 46228-4, provided by the customer) if the cable is multi strand flexible conductor. The other end of the cable should be connected to the corresponding terminals of the energy meter, please refer to the energy meter manual for further information.

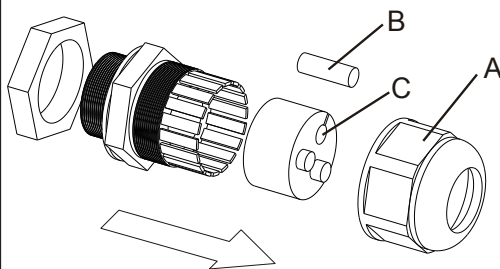


CN310 Pin	Name	Description
1	RS485A-1	For communication with an energy meter
2	RS485B-1	
3	RS485A-2	For communication with an energy meter
4	RS485B-2	

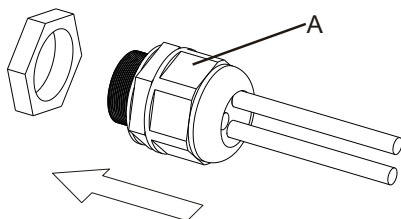
3. Remove the middle cable gland (A) at the bottom of the enclosure.



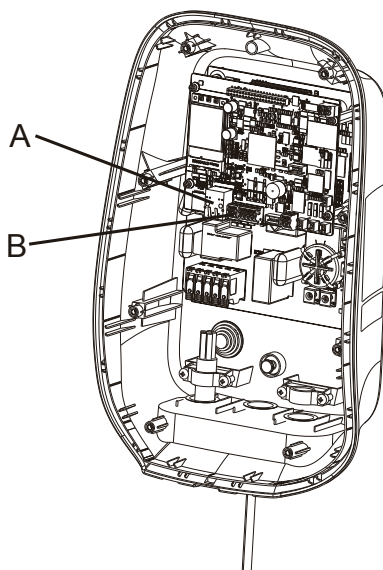
4. Remove the external nut (A), then remove the blocking rubber (B). Next, insert the ethernet cable into the hole (C). Repeat the similar step for the RS485 cable installation.



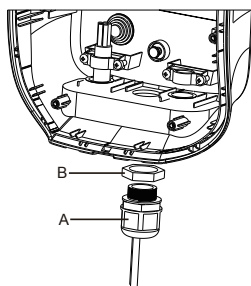
5. Assemble the cable gland and loosen the external nut (A).



7. Put the RJ45 plug of the Ethernet cable in the Ethernet RJ45 socket (A). Put the RS485 cable in the RS485 socket (B).

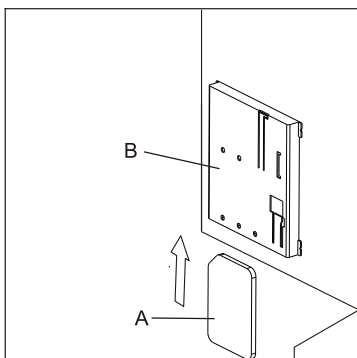


6. Install the cable gland at the bottom of the enclosure and fasten the nut (B), afterwards fasten the nut (A).



Insert 4G SIM card (4G Option)

1. Insert the SIM card (A) into the sim card holder (B). Ensure the position of the connection points are correct.



VII. Commissioning



Notice

Warning: Only use this commissioning procedure together with the Ai-Charging app for domestic applications. For all the other methods of commissioning, please contact your local representative of the manufacturer.



The product provide disconnection means and a residual current monitoring for detecting 6 mA direct residual current. In order to guarantee safety in accordance with IEC 61851-1 that RCD Type A and appropriate equipment that ensures the disconnection of the supply in case of DC fault current above 6 mA. The additional overcurrent protection and approved RCD Type A need to be provided in the installation as well.

1. To download the Ai-Charging app, please scan the QR code located on the last page of this guide. The app is compatible with Android versions later than 8.0, and iOS mobile versions 12.1 or later.

2. Close the circuit breaker that supplies the power to the EV charger.



Warning:

Hazardous voltage

Be careful when you work with electricity

The charger turns ON and a series of self-checks will begin, to ensure the charger works correctly and safety. If the charger passes the self-check, the colour of the LED will illuminate green. If the charger fails the self-check, the colour of LED will illuminate red.

3.To setup the EV charger:

Open and log into the Ai-Charging app.

Initial set up.

Find the EV Charger on the app.

Once the initial setup is done:

Adjust the parameter setting accordingly for the charger.

Connect your electrical vehicle to the charger.

Turn on the Charger via the app or by swiping the RFID card.

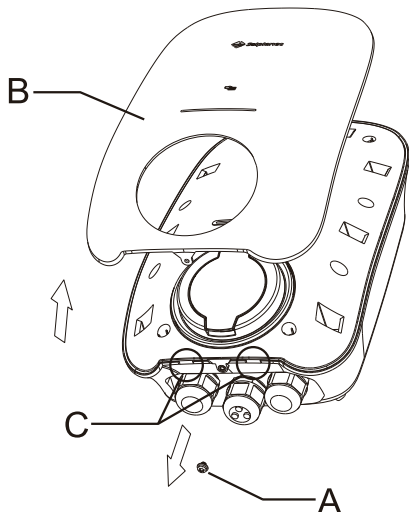
Check the charging current and status via the app.

(For Wi-Fi set-up, please refer to the Ai-charging app manual that can be found on our website).

VIII. Access to parts

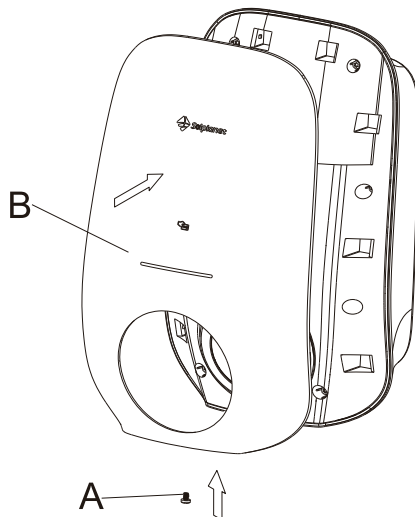
Removing the decorative cover

1. Remove the following parts:
Screw (A)
Decorative cover (B)



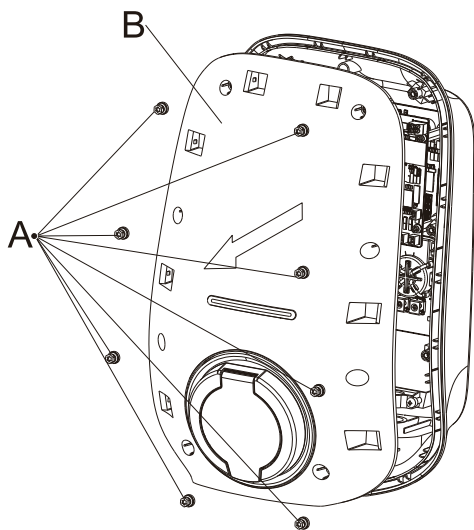
Installing the decorative cover

1. Install the following parts:
Screw (A)
Decorative cover (B)



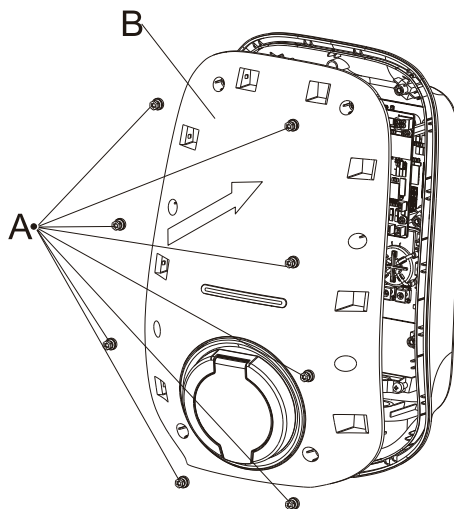
Removing the Top cover

1. Remove the following parts:
Screws (A)
Top cover (B)



Installing the top cover

1. Install the following parts:
Screws (A)
Top cover (B)
The recommended torque is 0.8 Nm.



IX. EU Declaration of Conformity

Within the scope of the EU directives:

- Electromagnetic compatibility 2014/30/EU
(L 96/79-106 , March 29, 2014)(EMC)
- Low voltage directive 2014/35/EU (L 96/357-374 , March 29, 2014)(LVD)
- Radio equipment directive 2014/53/EU (L 153/62-106 , May 22, 2014)(RED)



AISWEI New Energy Technology (Yangzhong) Co., Ltd. confirms herewith that the EV chargers mentioned in this document are in compliance with the fundamental requirements and other relevant provisions of the above mentioned directives.

The entire EU Declaration of Conformity can be found at www.solplanet.net.

X. Contact

If you have any technical problems with our products, please contact our service.
Provide the following information when you initiate a service request:

- Charger device type
- Charger serial number
- Error code (LED flash code / status)
- Mounting location
- Proof of purchase

Service Contact:

Website: <https://solplanet.net/contact-us/>

You can submit your claims online by visiting our website:

<https://solplanet.net/claims/>

You will receive a response within 24 hours.

AISWEI New Energy Technology (Yangzhong) Co, Ltd.

Add: No.588 Gangxing Road, Yangzhong Jiangsu, China

Web: <https://solplanet.net>

Android QR code



IOS QR code



