

SALUS
CONTROLS

EV CHARGER



Installation Manual

SALUS EV Charger (AC)

MODEL NUMBER

EV7EU : 7kW (1-phase) socket type

EV11EU : 11kW (3-phase) socket type

EV7UK : 7kW (1-phase) socket type (UK version)








The Salus EV Charger Mode-3 AC series offers charging power from 7kW to 11kW via a Type-2 socket for your Electric Vehicles. Its slim design makes it suitable for both indoor and outdoor environments, ideal for residential use.

It connects to the Internet via WiFi and can be controlled using a smartphone app. The app provides:

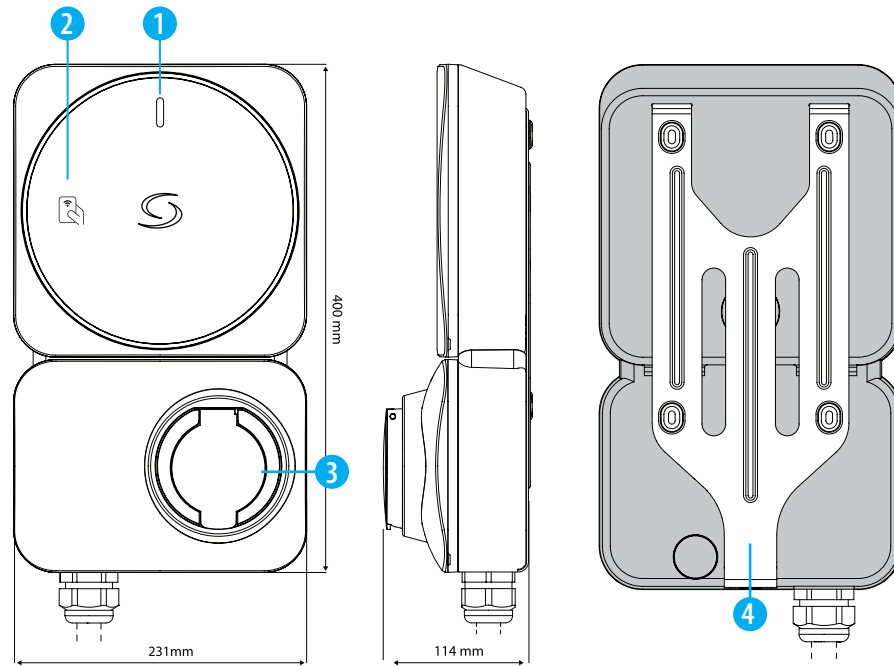
- Charging monitoring and control
- Off-peak scheduling for cost-efficient charging
- Charging history for tracking and analysis
- NFC access management for authorized users
- Multi-charger management in one account

The UK model (EV7UK) includes PEN fault detection, eliminating the need for an additional earth electrode, and complies with UK EV (Smart Charge Points) Regulations.

Important Safety Information

-  The installation, maintenance, & servicing of the charger **must be performed only by a qualified personnel per applicable local regulations**. The installer must ensure the installation follows local, regional and national regulations and guideline.
-  When using electric products, basic precautions should always be followed
-  **Turn off power at the circuit breaker** before installing or cleaning the EV charger.
-  **Do not install or use the EV charger near flammable, explosive, or combustible materials, chemicals or solvents, gas pipes or steam outlets, radiators or batteries, and areas that are easily get flooded, at high humidity or with running water.** Don't spray any liquid into the charging socket or the charging connector. Never submerge the charging connector in liquid. Do not open the cover in rain.
-  **Use the EV Charger only within the specified operating temperatures.** It is not recommended to install the charger in a position under direct sunlight or extreme weather conditions.
-  **Do not use the EV Charger if the enclosure or connector or socket is broken, cracked, opened, or shows any indication of damage, or fails to operate.** Do not use if the charging cable is frayed, has broken insulation, or has any signs of damage or the vehicle plug or electrical outlet is dirty. Do not touch the charging cable if the connector emits smoke or begins to melt, if possible, stop charging.
-  Do not attempt to disassemble, repair, tamper with, or modify the EV Charger. Do not insert fingers or foreign objects into any part of the EV Charger, and do not touch it's end terminals with fingers or sharp metallic objects. Sharp elements exist, beware of injurious cuts.
-  Do not use cleaning solvents on any part of the charger. Use a clean, dry cloth to remove dust and dirt.
-  **This device should be supervised when used around children.**
-  Handle with care with transporting the EV Charger, ensure that it is within storage temperature when moving, transporting, or storing. Do not subject it to strong force in any kind or step on the EV Charger to prevent damage to it or any components.
-  Take appropriate **precautions with electronic medical implants.**
-  **Follow all the safety and installation instructions carefully** during installation and operation for the EV charger. Incorrect installation and testing of the EV Charger could potentially damage the vehicle's battery, components, and/or the EV Charger itself. Failure to follow instructions may be a safety hazard and/or cause equipment malfunction
-  The information in this manual may be changed without prior notice. It does not represent any obligation on the part of the manufacturer. Images in this manual are for illustration purposes only and might differ from the delivered product.

Overview



- 1. LED for logo and charging indicator
- 2. NFC reader for authentication
- 3. Type 2 charging socket
- 4. Y-shape metallic wall mount

MODEL	NO. OF PHASES	OUTPUT CURRENT	CONNECTION	POWER
EV7EU	1- PHASE	32A	TYPE 2 SOCKET	7kW
EV11EU	3 - PHASE	16A	TYPE 2 SOCKET	11kW
For UK only (with PEN fault protection)				
EV7UK	1 - PHASE	32A	TYPE 2 SOCKET	7kW

LED Status

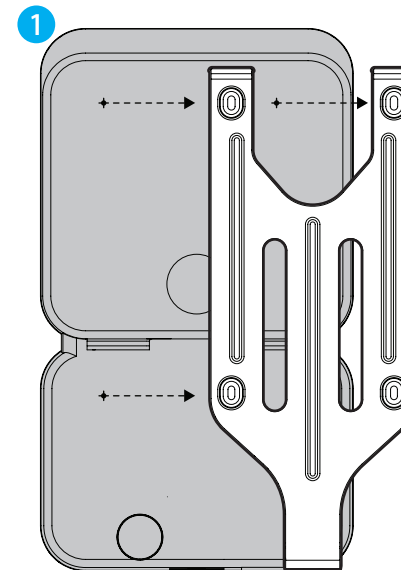
DURING SETUP		
Ready to set up Wi-Fi		SLOW Blink
Connected to Wi-Fi		SLOW Blink
Connected to Cloud (or OCPP server)		Solid
No connection connection		FAST Blink
CHARGING OPERATION		
Standby		Solid
Charger is locked		SLOW Blink
Charger is waiting for NFC		Solid
Charger is waiting for schedule		SLOW Blink
Charger is waiting for EV to start charging		SLOW Blink
Charging		Solid
Finished charging		Solid
NFC card is verified		Blink 3 times
NFC card verification failed		Blink 3 times
Error (disconnect all cable, switch off main power supply and contact technician)		Solid

Technical specification

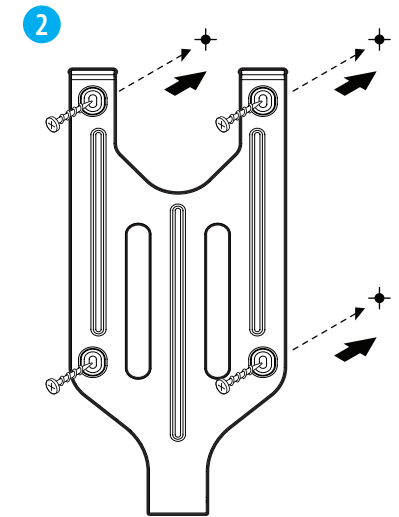
	SINGLE PHASE (EV7EU / EV7UK)	THREE PHASE (EV11EU)
Input voltage	230V AC 50Hz	400V AC 50Hz
Charging current & power	32A / 7kW	16A / 11kW
Charging mode	Mode 3	
Charging connector	IEC 62196 - Type 2 socket with lock	
Cable section	Up to 10mm ²	
Cable entry	Bottom and rear side	
Electrical protection	6mA DC residual current detection Anti-welding protection Over current protection Over/under voltage protection Over temperature protection Surge protection PEN fault protection (EV7UK only), without the need for additional earth rod installation.	
LED display	LED backlight for logo and multi-colour LED for charging status	
NFC reader	Mifare (13.56MHz), ISO14443-A	
Connectivity	IEEE 802.11bgn Wi-Fi (2.4GHz)	
Communication	Mobile App operation	
Firmware update	Over the air firmware update capability	
Security	Wi-Fi : WEP, WPA-TKIP, WPA2-CCMP, PMF and WPA3	
Ingress protection rating	IP54	
Impact protection rating	IK08	
Material (Enclosure)	PC UV stabilized (UL94 V-0 fire rated)	
Storage temperature	-30°C to 80°C	
Operating temperature	7kW model : -25°C to 50°C	11kW model : -25°C to 45°C
Operating humidity	Up to 95% RH (non-condensed)	
Working altitude	Up to 2,000m	
Dimensions (H x W x D)	400mm x 231mm x 114mm	
Net weight	3.7kg	
Accessory	Y-shape mount NFC card x 3 pcs	

Installation and electrical connections

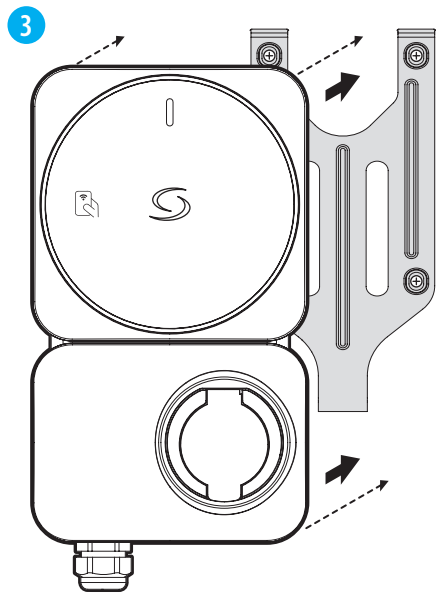
1. Mount the EV charger



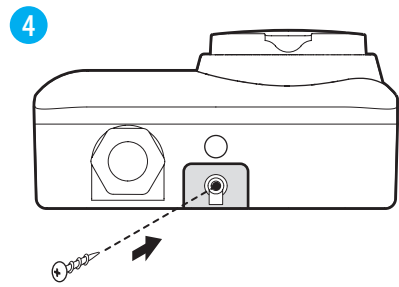
Use screws (included) to fix the mounting plate on to the wall.



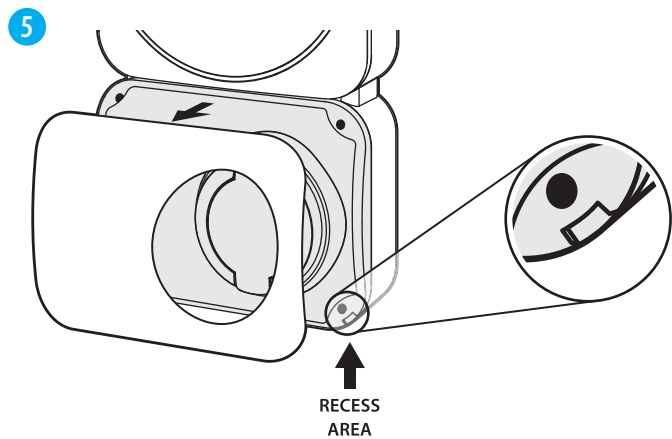
Use screws (included) to fix the mounting plate on to the wall.



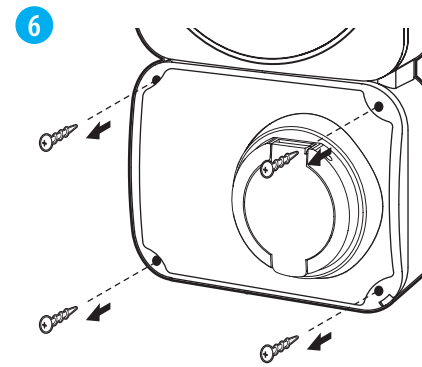
Attach the EV charger back to the mounting plate.



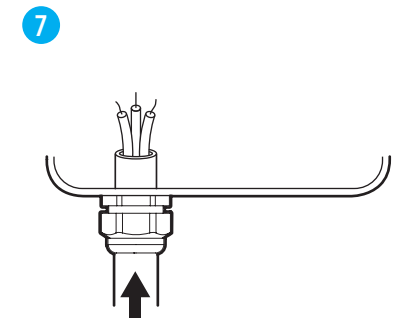
Tighten the screw at the mounting plate bottom to fix the EV charger firmly to it.



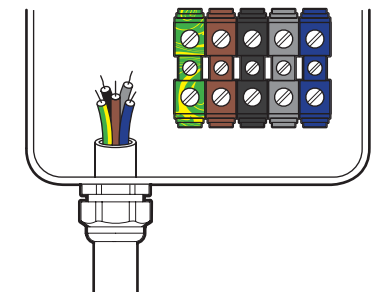
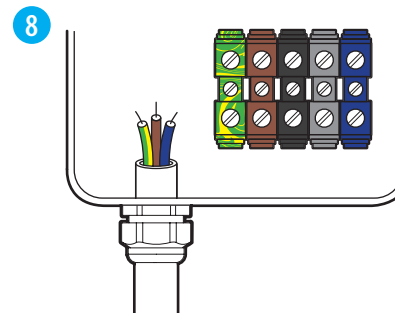
Open the deco-cover, there is a **recess area** at the corner for opening it easily.



Loosen the screws at each corner of the top cover, then open it to access the internal part for wiring and set up.

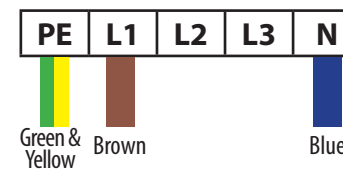


Pass the power supply cable through the cable gland supplied.

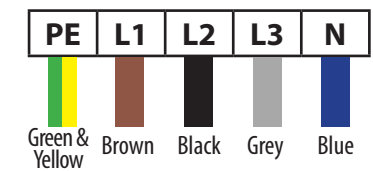


Insert the cable into the EV charger and connect it to the terminals, following the configurations listed for **single-phase** or **three-phase** power input.

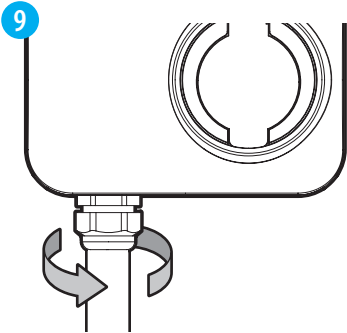
Single phase:



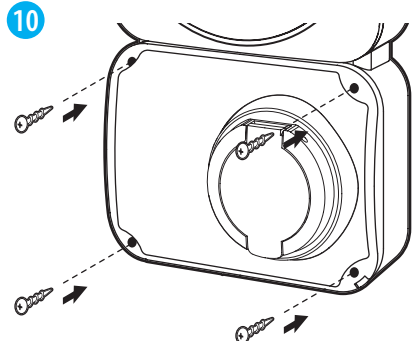
Three phase:



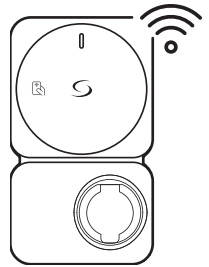
* the above colors are used following the IEC standard, some regions may use other standardized colors



After finishing the wiring, the **cable gland** must be tightened to the EV charger in order to secure the cables.



Install the top cover and tighten the screws securely.

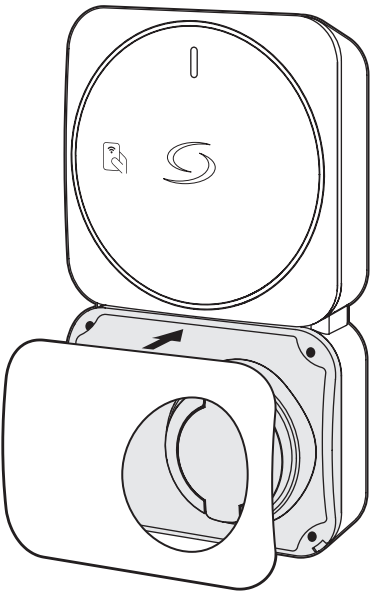


Connect your EV Charger to the Internet via Wi-Fi.

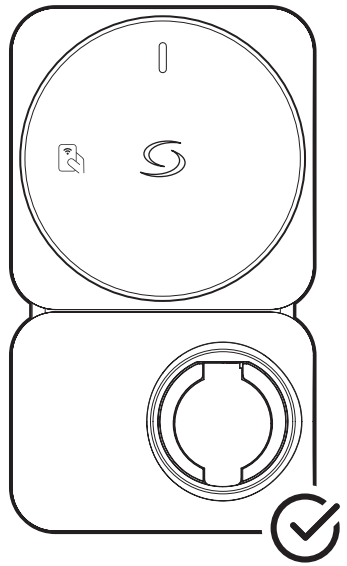


Use the smartphone app to register it to your account.

2. Finish the installation

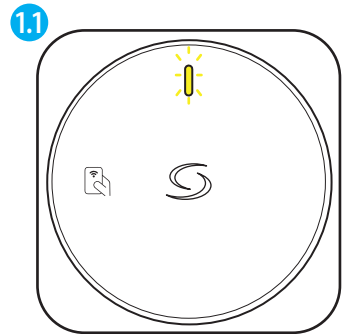


Position the deco cover over the top cover, aligning it properly.



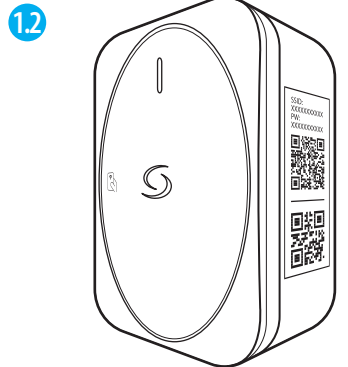
Installation is complete.

Step 1 : Set up Wi-Fi Connection to router



After powering ON, the EV charger will broadcast a Wi-Fi Access Point for 5 minutes. LED flashes YELLOW.

* The Wi-fi Connection setup must be finished within 5 minutes.



Use a mobile device in order to connect to the EV charger access point.
Scan the QR code printed on the charger label to connect automatically
Or
Connect manually using the SSID and password printed on the label

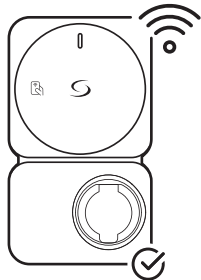
1.3

Once connected, the web browser on the mobile device should open automatically and show the EV Charger Wi-Fi set up page.



Otherwise, scan the QR code above in order to access the Wi-Fi set up page or Open the browser and enter 192.168.3.1 in the address bar.

1.5



The EV charger is now connected to the Wi-Fi network.

1.4



On the Wi-Fi setup page, select a network from the list and enter the password to connect the EV charger.

Step 2 : User smartphone App to continue the set up

2.1

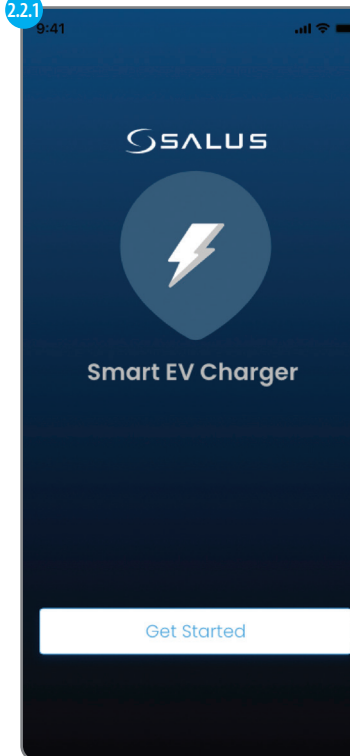


Download the Salus EV charger App and register a user account.

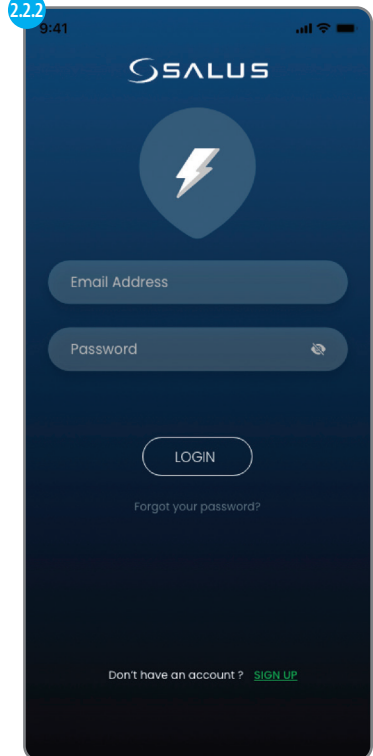
2.2

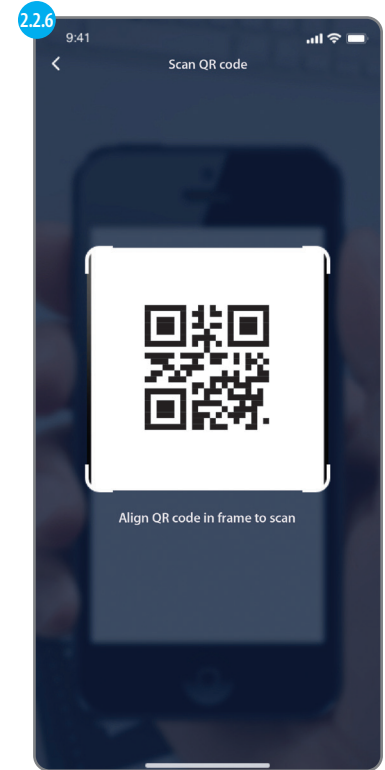
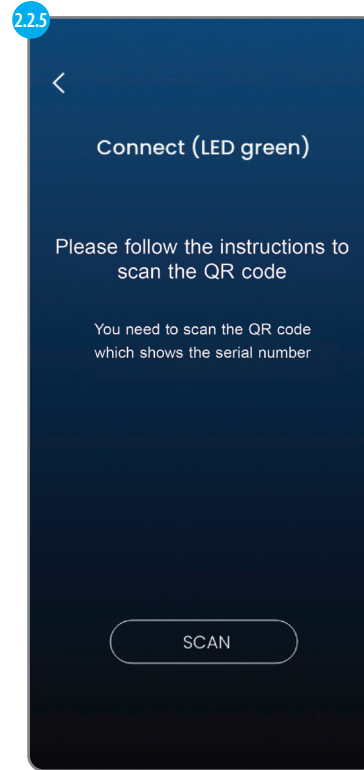
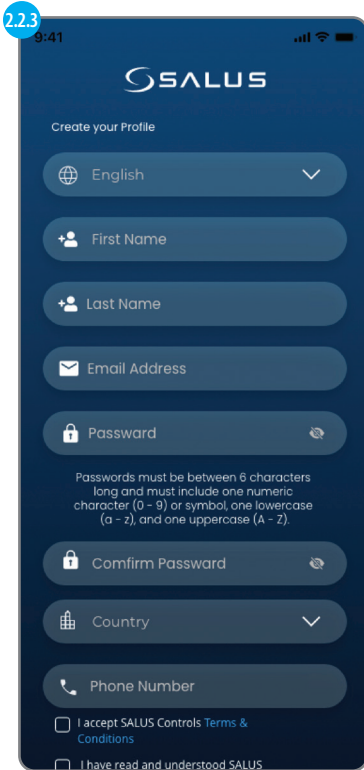
Follow the instruction on App to add EV charger to your account.

2.2.1



2.2.2





2.3 Start using the App to control the EV charger.



PEN fault protection for EV7UK : 7kW (1-phase) socket type (UK version)

When installed on a PME electrical system it is necessary to protect the user from a potential electric shock that could occur if the combined Neutral and Earth (PEN) conductor on the supply becomes damaged or disconnected.

EV7UK model has an in-built PEN fault protection function, as described in 72.411.4.1 (iv), to disconnect the vehicle from the live, neutral and earth conductors if the voltage is above or below the prescribed levels (greater than 253V and less than 207V). It removes the need for an additional earth electrode or earth rod installation.

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