X2



22kW / 32A
3 PHASE
EV CHARGER

3 Phase EV
CHARGER

Type 2
SOCKET

IP65
RATED

IK10
RATED

Easy to
INSTALL

50 / 60Hz
AC POWER

Safe &
EFFICIENT

345x192x149mm
DIMENSIONS

DATA SHEET

SEVR-EVX2

Version 15

EVX2 22KW EV CHARGER

SEVR

sevr.com.au



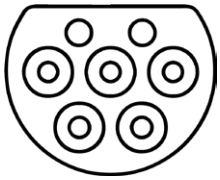
RCM

Description

Offering a remarkable 22kW of charging capacity, this three phase EV charger is compatible with all EV car models. This charger ensures safety while catering specifically to the Australian market. Boasting a high-quality construction with a generous three-year warranty, it offers effortless installation by a licensed electrician. With an IP65 rating and IK10 durability, it features a Type 2 plug and comes complete with a 5m cable for added versatility. Additional back plates and cover accessories, allow you to prepare for additional EV charger installations, without having to install the actual units reducing the costs of set up for future proofing or fleet preparation. OCPP 1.6J protocol is already built in ready to integrate with your management software or app over WiFi or LAN. RFID and MODBUS available on request.

Cable, Plugs & Connectors

Type 2 plug



General	Details
Dimensions	345 x 191 x 149 mm (H x Wx D)
Operating Temperature	-30 °C to +50 °C
Weight	5.8 kg
Charging	**Details**
Charging Power	Three-phase: 22 kW/ up to 32 A
Connection Point	Type 2 cable (IEC 62196-2)
Voltage	400 V ±10%, three phase
Mains Frequency	50/60 Hz
Built In Energy Meter (±1%)	
Connectivity	**Details**
Ethernet	YES
Built-in WiFi	2.4G & 5GHz Bluetooth 5.2
4G/3G/LTE/GPS	Optional
OCPP1.6J compliant	YES
Protection	**Details**
Integrated protecion for open/break fault conditon in supply PEN conductor according to BS 7671:2018/A1:2020	
Built-in RDC-DD for ground fault protection (30 mA AC/6 mA DC)	
UVP, OVP, SPD, Ground Fault Protection, OTP, Control Pilot Fault Protection	
ISO14443A, ISO14443B	
Degree of protection	IP65 (the backplate is IP54 with the cover)
Impact resistance	IK10
Certifications	RCM
Warranty	36 months

IMPORTANT SAFETY INSTRUCTIONS

Read and follow all warnings and instructions before installing and operating the product.

⚠ WARNING: To avoid fire, injury or death, carefully read and follow the instructions during installation, operation and maintenance.

-DO NOT put fingers into the electric vehicle connector.

-DO NOT use the product if the flexible power cord or EV cable is frayed, insulation-broken, or any other signs of damage.

-DO NOT use the product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

-DO NOT remove cover or attempt to open the enclosure because of risk of electric shock

-DO NOT install the product near flammable, explosive, or combustible materials.

⚠ WARNING: The product should be supervised when used around children.

⚠ WARNING: The product must be grounded.

⚠ WARNING: To avoid a risk of fire or electric shock, do not use this device with an extension cord.

⚠ WARNING: Disconnect electrical power prior to installing the product.

⚠ WARNING: Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the product.

⚠ WARNING: The product should be installed by a licensed electrician according to the user manual and local safety regulations.

⚠ WARNING: Do not under any circumstances make alterations to the product. Any disregard of this instruction represents a safety risk, fundamentally breaches the warranty provisions and may void the warranty with immediate effect.

(!) CAUTION: Use appropriate protection when connecting to the main power distribution cable.

(!) CAUTION: Type a, three pole RCBO with the rated current for charger should be installed

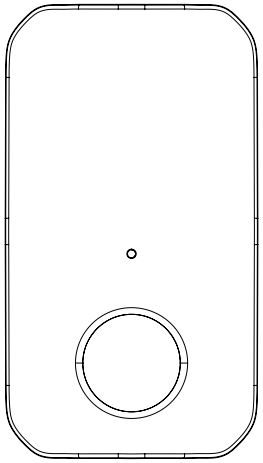
(!) CAUTION: Do not put heavy objects on the charger to avoid damage.

(!) CAUTION: Do not cover the product with stickers or other objects or materials.

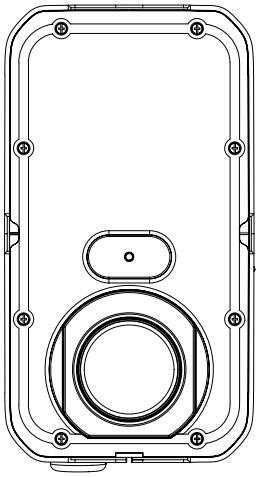
(!) CAUTION: The device must not be installed in close vicinity to running water, water jets or areas subject to flooding.

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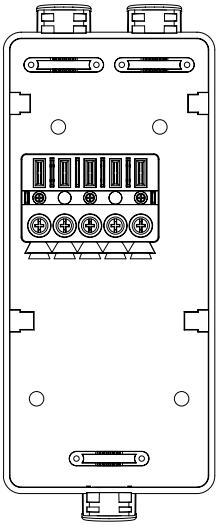
Product Overview



Front Cover
Protects the electronics from external damage



Charge Hub
Contains the electronics of the EV charger



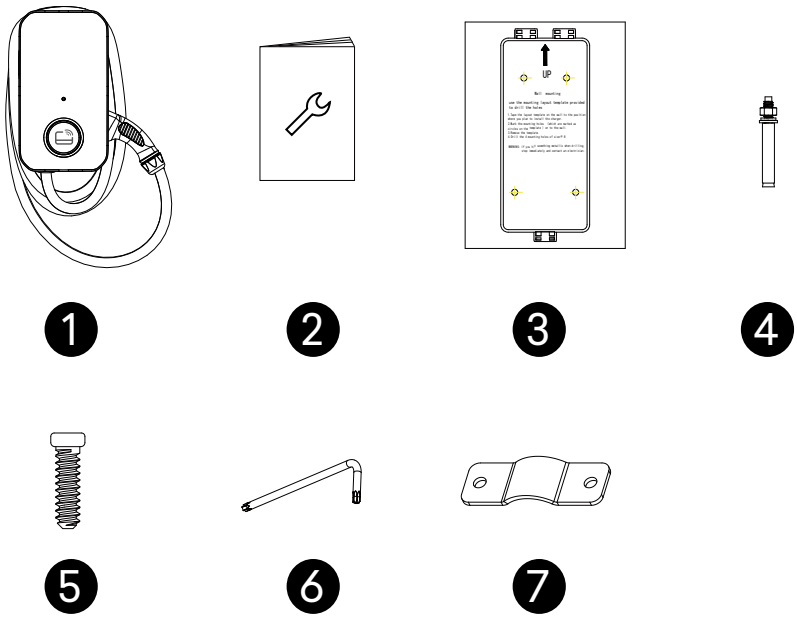
Backplate
For attaching and connecting to the charging infrastructure

Installation

Verify contents

Check the box to ensure you have the user manual, and these parts:

1. Charging station x1
2. User manual x1
3. Mounting template x1
4. M6 Expansion x4
5. ST3.5 Screws x2
6. Allen wrench x1
7. Strain relief x2



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Installation

Required equipment

In addition you will need the following tools and accessories:

1. Wire stripper
2. Adjustable wrench
3. Voltmeter or digital multi-meter
4. Level
5. Drill
6. Knife
7. Wire crimper
8. Phillips screwdriver

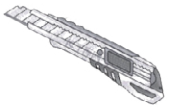
















Circuit breaker options

Circuit breaker/Residual current device is to be selected in accordance with relevant Australian standards.

Circuit Breaker Options Table	
	Three Phase
Output Amperage (A)	32A
Circuit Breaker Options (A)	To be assessed on site based on relevant Australian standards

⚠ **WARNING:** Please use the charger properly. Do not hit or press hard on the enclosure. If the case is damaged, please contact a professional technician.

⚠ **WARNING:** Improper connection of the equipment-grounding conductor would result in a risk of electric shock. Check with a qualified electrician or serviceman if you are not sure whether the product is properly grounded. Do not modify if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.

ⓘ **CAUTION:** Use appropriate protection when connecting to the main power distribution cable.

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Residual Direct Current - Detective Device

- An RDC-DD is a Residual Direct Current - Detective Device; this is often built within a the car charger equipment to monitor and if necessary disconnect should any DC problems occur on the AC side of the installation, which could effect the operation of the RDC's or RCBO's.

Residual Current Device (RCD)

1. A Residual Current Device is integrated in the product.
2. The RCD will break the current if a residual current exceeding 30mA AC is detected in the circuit.

An external RCD is required when at least one of the below conditions are identified:

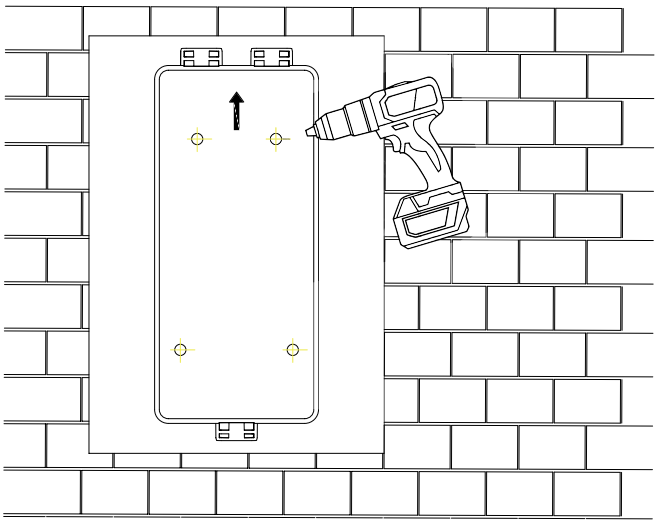
- The installation, including cable, junction boxes etc., Includes components with only basic insulation (Class I).
- Any other electrical equipment apart from the charging station, including lamps and socket outlets, is connected to the circuit.
- Any other conditions identified by the authorised installer requiring an external RCD.
- As a requirement of any relevant Australian standards or service installation rules of local authorities documentation calls for its installation.

Installation Guide

1. Make sure the charging station is straight and fix at the appropriate height (1100-1200mm) from the ground.

2. Drill 4 Screw Holes with a diameter of 8.5mm and a depth of 55mm~60mm by using mounting template.

3. Please drill screw holes in the direction of the template arrow.

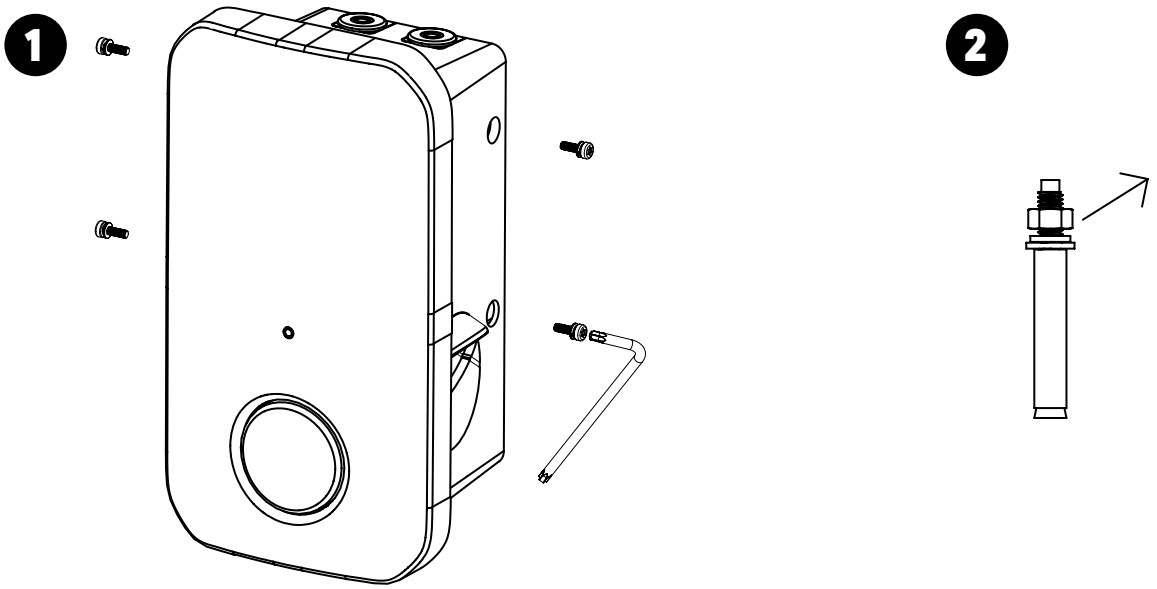


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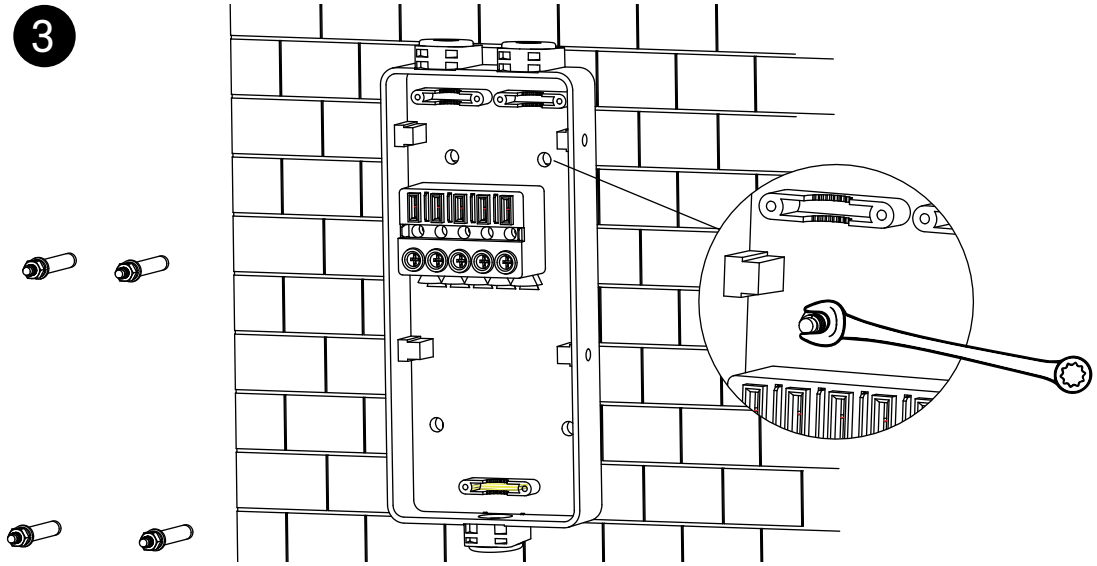
STEP 2: BACKPLATE MOUNTING

1. Remove the 4 screws that lock the backplate on the charging station and take out the backplate.

2. Remove screw nuts of Hexagonal Expansion screws.



3. Using the 4 Hexagonal Expansion Screws included to secure the backplate on the wall; Use a suitable tool to tighten the screw nuts on the expansion screws.

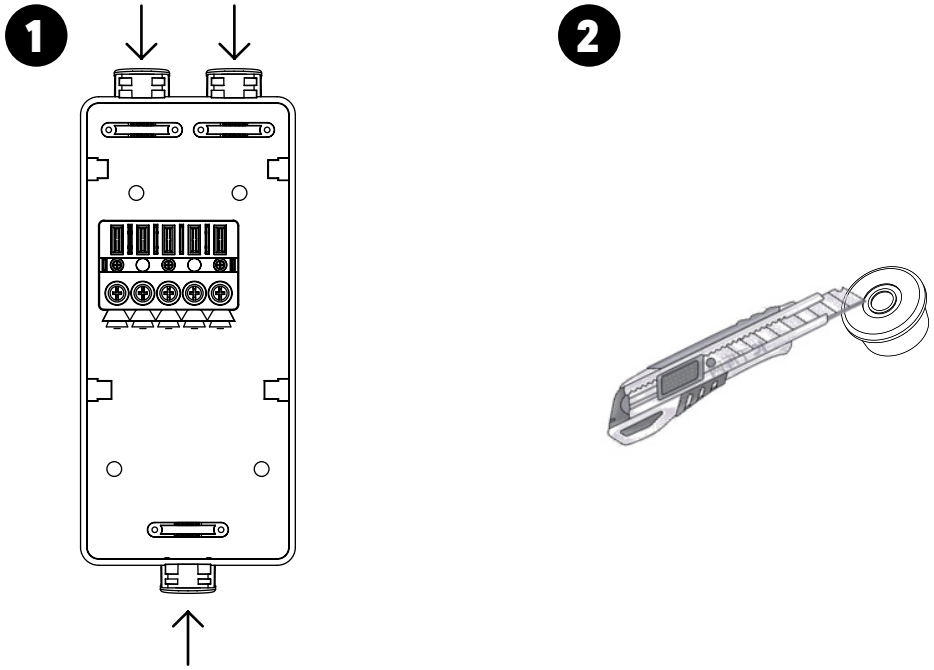


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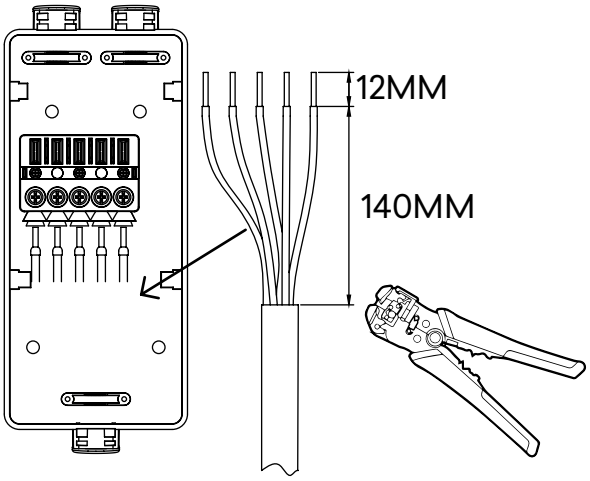
STEP 3: BACKPLATE WIRING

1. Choose the power cable entry to the backplate, which can either be done from the bottom or the top.

2. Remove the sealing plug, and use a knife to make a hole along the middle circular line of the sealing plug.



3. Follow the stripping length identification on the backplate to strip the TPU cover by 140mm first, and then strip individual wires by 12 mm.



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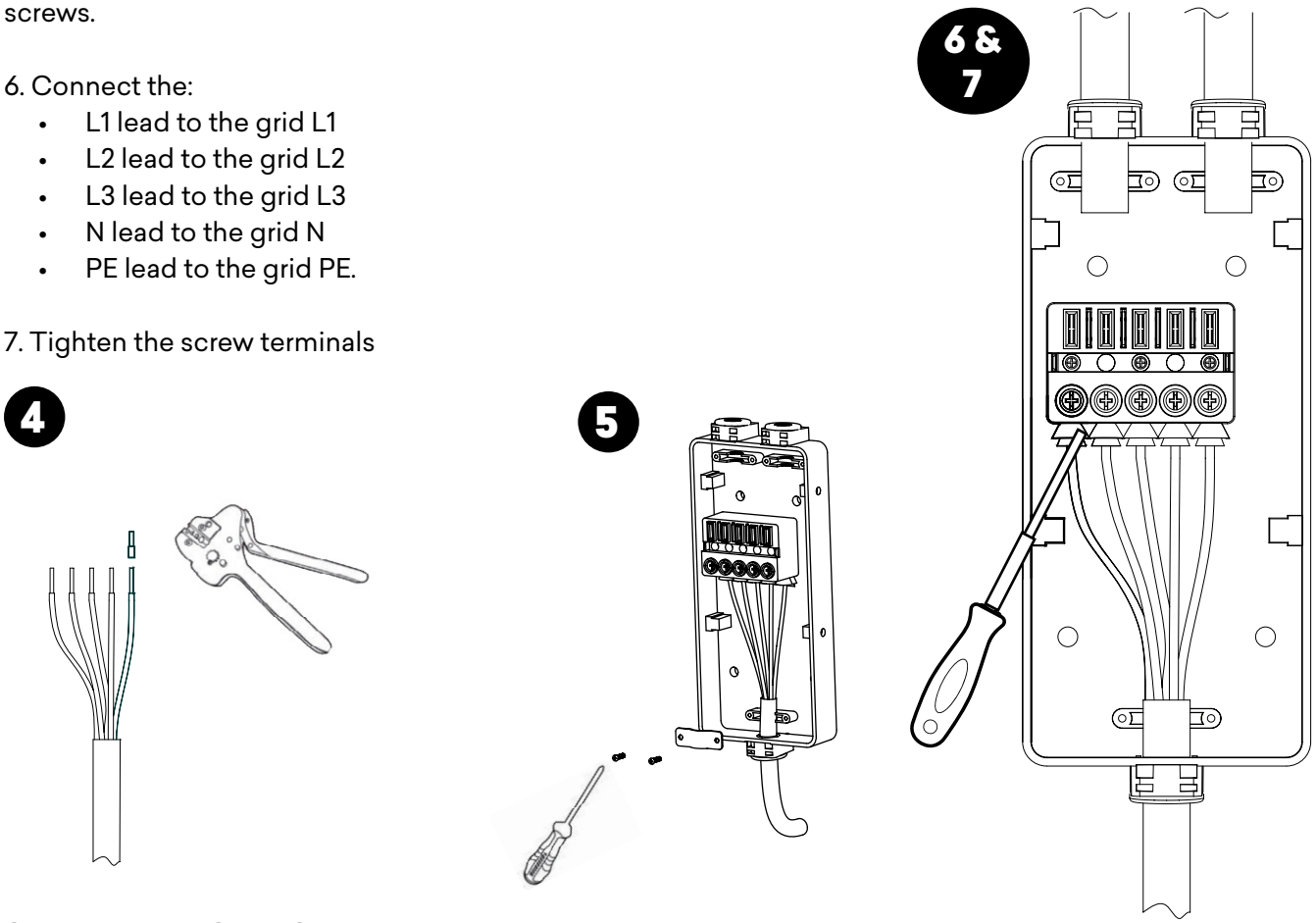
4.Ensure the use of ferrules on stranded wires and crimp it with a wire crimper

5. Insert the cable through the entry and secure it to the backplate with the strain relief provided by the ST3.5 screws.

6. Connect the:

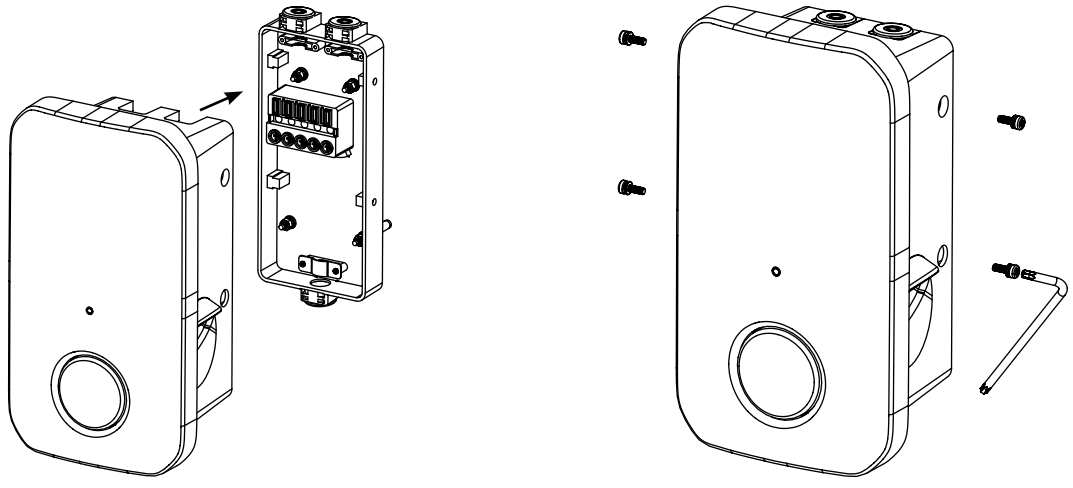
- L1 lead to the grid L1
- L2 lead to the grid L2
- L3 lead to the grid L3
- N lead to the grid N
- PE lead to the grid PE.

7. Tighten the screw terminals



STEP 4: ATTACHING

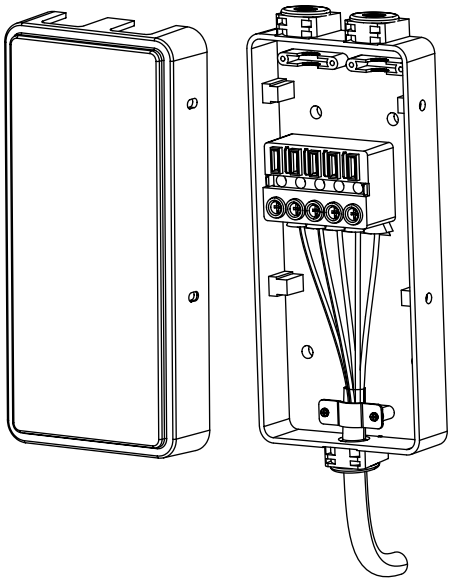
1. Position the charging station to fit into the slots on the backplate located in the center of the installation. When the charging station is in the track tightly, reinstall the screws on the charging station.



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2. If you only want to pre-wire without attaching the charging station, you can cover the backplate with the backplate cover to protect the wires (IP54/IK10).When the backplate cover is in the track tightly, reinstall the screws on the charging station.

NOTE: Backplate cover is available for separate purchase.



Operation

	Blue, green and red flash once in sequence	Power on
	Solid blue	Standby
	Solid green	Plug in and wait to charge
	Green flashes	In-charging
	Solid green	Charging finish
	Solid blue	Plug off
	Solid red	Fault

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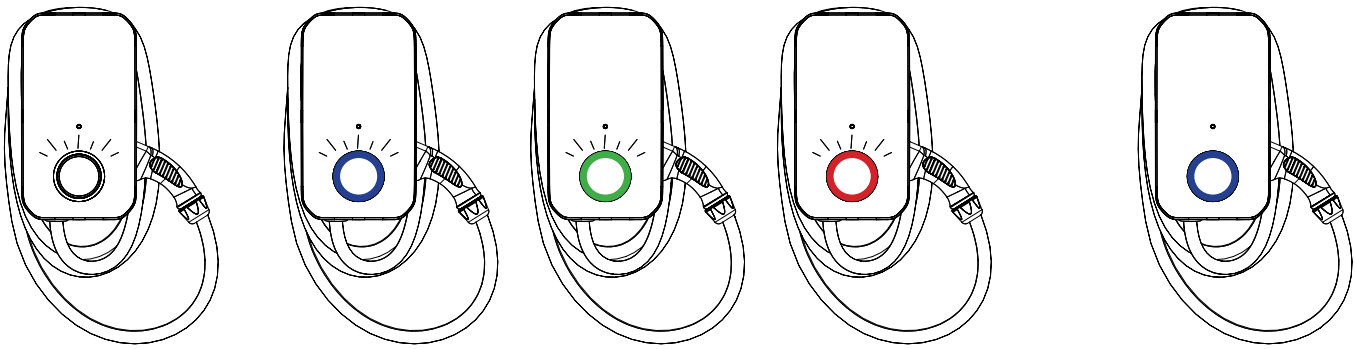
Fault message

Fault status	Red light	Remark
Voltmeter fault	1 flash followed by 3 second pauses	Automatic recovery
Control Pilot fault	2 flashes followed by 3 second pauses	Plug off to recover
Input UVP	3 flashes followed by 3 second pauses	Automatic recovery
Input OVP	4 flashes followed by 3 second pauses	Automatic recovery
OTP	5 flashes followed by 3 second pauses	Automatic recovery
OCP	6 flashes followed by 3 second pauses	Plug off to recover
Ground Fault	7 flashes followed by 3 second pauses	Plug off to recover
Relay Fault	8 flashes followed by 3 second pauses	Plug off to recover
RCD Abnormal	9 flashes followed by 3 second pauses	Plug off to recover
RCD self-test fault	10 flashes followed by 3 second pauses	Restart recovery

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Charging Guide

1. After being powered on, the lights will flash, blue light, green light and red light flash once one by one. Then the blue light is constantly on in standby mode.



2. Once the initialisation procedure is completed, plug the charging connector into the vehicle charging inlet properly, this will automatically start charging the vehicle.

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Warranty & Maintanence

- The warranty period for this charger is 36 months.
- During the warranty period for any malfunction under normal use according to the User Manual and Service Instructions (to be determined by certified maintenance technicians of sellers), the product shall be repaired free of charge. Except for the following situations, the charger shall be subject to the above warranty terms:

1. The warranty certificate cannot be provided or the contents of the warranty certificate are modified or inconsistent with the label indication of the repaired product.
2. Those who are unable to provide valid proof of purchase.
3. Those who exceed the manufacturers specified warranty period.
4. Those who damage the product due to not following the product service instruction for use, maintenance and storage.
5. Damage or malfunction caused by external object entering.
6. Unauthorized repair, disassembly or modification.
7. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.)
8. Malfunction and damage caused by other unavoidable external factors. Malfunction and damage caused by improper use of equipment, such as water, or other solutions entering the equipment.
9. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

The above guarantees shall be made solely, and no other express or implied warranties shall be made (including the implied warranties of merchant ability, particular and applicable reasonableness and adaptability etc.) whether in the contract, civil negligence, or other aspects, the company shall not be responsible for any special, incidental or consequential damages.

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