ZEEKR
7X Australia

ZEEKR AC WALLBOX
TETHERED
USER MANUAL

Contents

About This Manual

- Thank you for choosing ZEEKR AC Wallbox.

- This manual will guide you through the steps required to install, use, and maintain AC Wallbox.

- Please exercise caution when performing indicated with "*" symbols to prevent any potential harm or damage to the product. The symbol in this manual has the following meaning: Caution: supplements important information or indicates a potentially hazardous situation which, if not avoided, could result in device damage, data loss, performance deterioration, or unanticipated results.

- **The manual is for reference only and does not constitute a warranty of any kind. The actual product (including but not limited to color, size, and functions) may vary. If this manual is inconsistent with the description on the official website, the latter prevails.**

Safety Information

- Before using and operating this product, thoroughly read this document and abide by all safety precautions, including the equipment safety markings.

- The statements provided in this manual do not encompass the entire safety instructions. They are merely supplementary. The company is not liable for any consequences resulting from the violation of safety requirements, design, production, or safety standards.

- Ensure that the product is installed in environments as specified in this manual. Incorrect installation may potentially damage the charger. Any resultant damage, personal injury, or property damage is excluded from the warranty.

- Besides the requirements specified in this manual, the usage and operation of the product should also comply with local regulations.

- Before installing or cleaning the product, turn off the upstream residual RCBO.

- Do not install or use the product in or near areas with flammable, explosive, chemical materials, or steam.

- Do not use the product if it is defective, cracked, damaged, or malfunctioned.

- Do not install or use the product in an environment with strong magnetic fields or near a wireless transmitter.

- Install and use this product in a location shielded from direct sunlight.

- Do not use or replace the product in extreme weather conditions.

- Do not remove the safety marks, warning signs, nameplates, or cabling marks from the product.

- Do not insert your fingers or sharp objects into any components of the product.

- Do not submerge the charging connector in water.

- Do not disassemble, repair, or modify the product by yourself.

- Do not use third-party extension cables or adapters.

- Do not drop, squeeze, or pierce the product.

- Do not fold, crush, or damage any component of the product with sharp objects.

- Keep children away from the product.

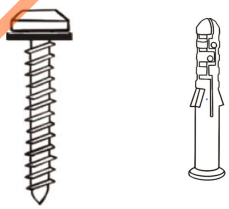
- Do not connect the product to devices other than a BEV or a PHEV.

Packing List

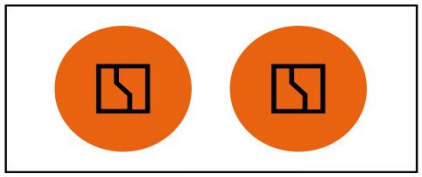
Device body

Quick Guide

RFID Card x3

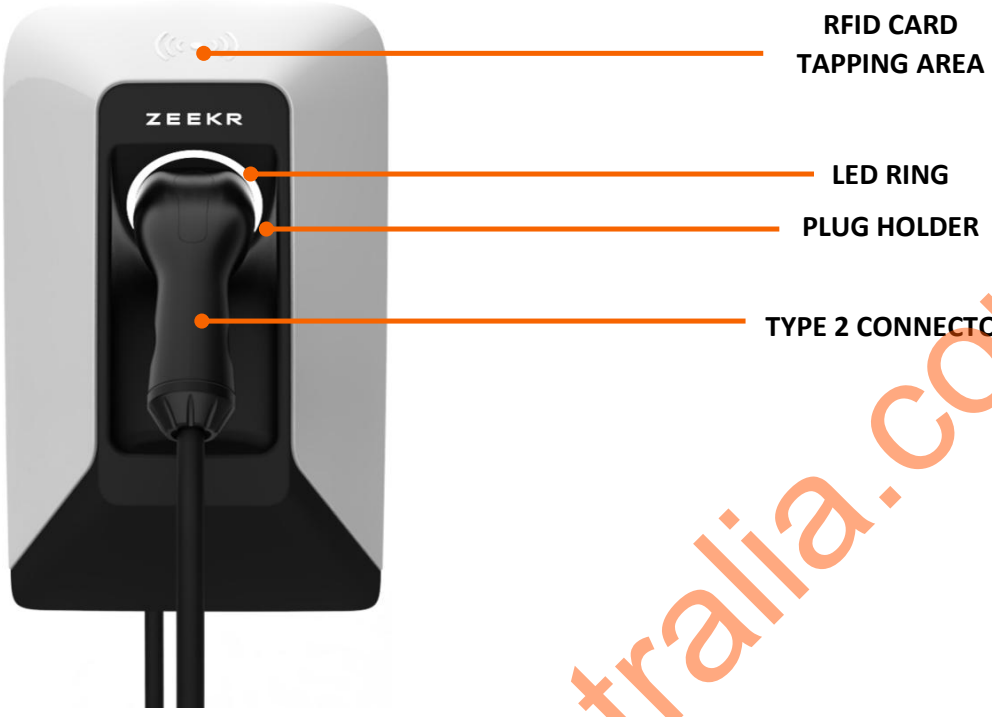


Wall-mounting Screw x4



Security label x1 pair

Product Overview



Fast charging

Charging power up to 7kW (single-phase) or 11kW/22kW (three-phase).

Access Control

Manage the access of the Wallbox, switch between authorize every charging session or unlimited access for every session.

Technical Specfications

Feature and Function	
Charging mode	AC Mode 3
Outlet type	IEC 62196 Type 2 connector
AC power output	Single phase up to 7.4kW. Three phase with downgrade compatibility up to 22kW
Mounting options	Wall mounted or pedestal with bracket
HMI	LED Ring
Communication	
Interface	Wi-Fi, BLE, 4G (optional), RS-485
User authentication	RFID, Plug-n-Charge
Back end protocol	OCPP 1.6 JSON
Electrical Design	
Power supply	Single phase: 230VAC ± 20%, 50/60Hz Three phase: 230/400VAC ±20%, 50/60Hz TN/TT/IT
Protection	UVP, OVP, OCP, OTP, Relay Stuck
Residual current protection	Type A (upstream Type A RCD or RCBO or RCCB is required) 6mA d.c. RDC-MD (integrated in AC Wallbox) per IEC 62955
Energy metering	±1% Accuracy
General Design	
Operating temperature	-30 to 55°C without direct sunlight
Operating altitude	3000m
Environmental rating	Indoor and outdoor, IP55, IK08
Dimension	434x251x163 (mm)
Weight	4.8kg - 6.1kg

Installation Precautions

- Only professionals with local qualifications are allowed to install chargers.
- Ensure that all installation operations are performed correctly to avoid accidents such as fire and electric shock.
- Ensure that the installation surface is solid enough to hold the charger. It is recommended that the wall has a bearing capacity of at least 100 kg.
- Ensure that the wall is flat and reserve sufficient space around the installation position to ensure good ventilation.
- Ensure that the wall is larger than the backplate of the charger.
- When installing the product, install the ground cable first. When uninstalling the product, remove the ground cable last. Do not work on the product in the absence of a properly installed ground cable.
- Do not install or remove power cables while the power is on.
- Ensure that cables are correctly connected to the charger before switching on the upstream Type A RCBO.
- After switching on the upstream Type A RCBO, refrain from touching the terminals on the backplate directly or with conductors.
- Use cables that comply with local regulations and ensure that the insulation layer is intact.
- When installing the product, use a screwdriver with a proper torque to tighten the screws. When using a screwdriver, ensure that the screwdriver does not tilt and the torque error does not exceed 10% of the specified value.
- When routing power cables, ensure that there is no coiling or twisting.
- Keep cables at least 30 mm away from heat-generating components or heat source areas.
- Do not join or weld power cables. If necessary, use a longer cable.
- Seal unused power cable holes with rubber plugs after the installation is complete.
- In case of short-circuit, the value of I^2t at the EV socket-outlet of the charger shall not exceed 75000 A^2s.

Installation Preparations

Before the installation, ensure that:

- The charger power is within the allowed load range of the residence.
- Cables and at least type A RCBOs meet the installation and compliance requirements.
- The installation area should be covered by a wireless network if the charger is connected to the network through WiFi.

* In Singapore, the installation of a switch disconnector between the charger and the main circuit breaker is mandated based on the rated output current of the charger.

Preparing Tools

Preparing Cables

Cable Type	Operating Current	Coss-sectional Area
AC input power cable 1P+N+PE	32A	6~10 mm^2
AC input power cable 3P+N+PE		6~10 mm^2
AC input power cable 3P+N+PE	16A	2.5~10 mm^2

Note: To facilitate cabling, aluminum wires and solid copper wires are not recommended.

Preparing RCBO

Input	Specifications
Single-phase / Three-phase	2P/4P RCBO, at least 40 A (50 A is recommended if the ambient temperature is higher than 40°C), at least Type A , in compliance with local regulations.

Preparing Switch Disconnector

Input	Specifications
16A	Rated operation voltage: 690 V Rated impulse withstand voltage: 8 kV Rated insulation voltage: 690 V Conventional free air thermal current ≥16A
32A	Rated operation voltage: 690 V Rated impulse withstand voltage: 8 kV Rated insulation voltage: 690 V Conventional free air thermal current ≥32A

* It's mandated to be installed in Singapore.

1 Disassembling

Pull out the 2 lock pins at the bottom and screw off the 2 screws at the top; then separate the backplate from the wallbox.

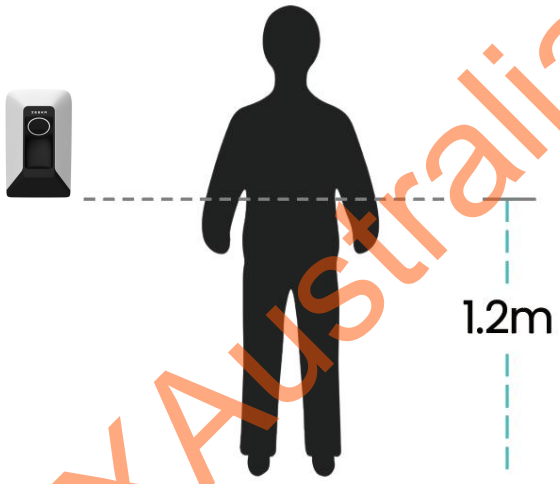
2 Positioning

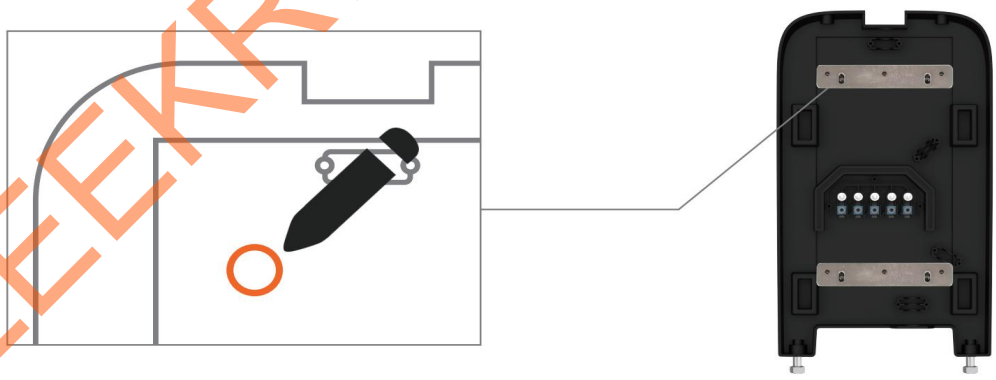
Read the installation precautions before the installation.

Ensure that the installation surface is solid enough to hold the charger.

* It is recommended that the wall have a bearing capacity of at least 100 kg.

Place the backplate on the wall; keep it horizontal; and use a pencil to mark the hole-drilling positions on the wall.

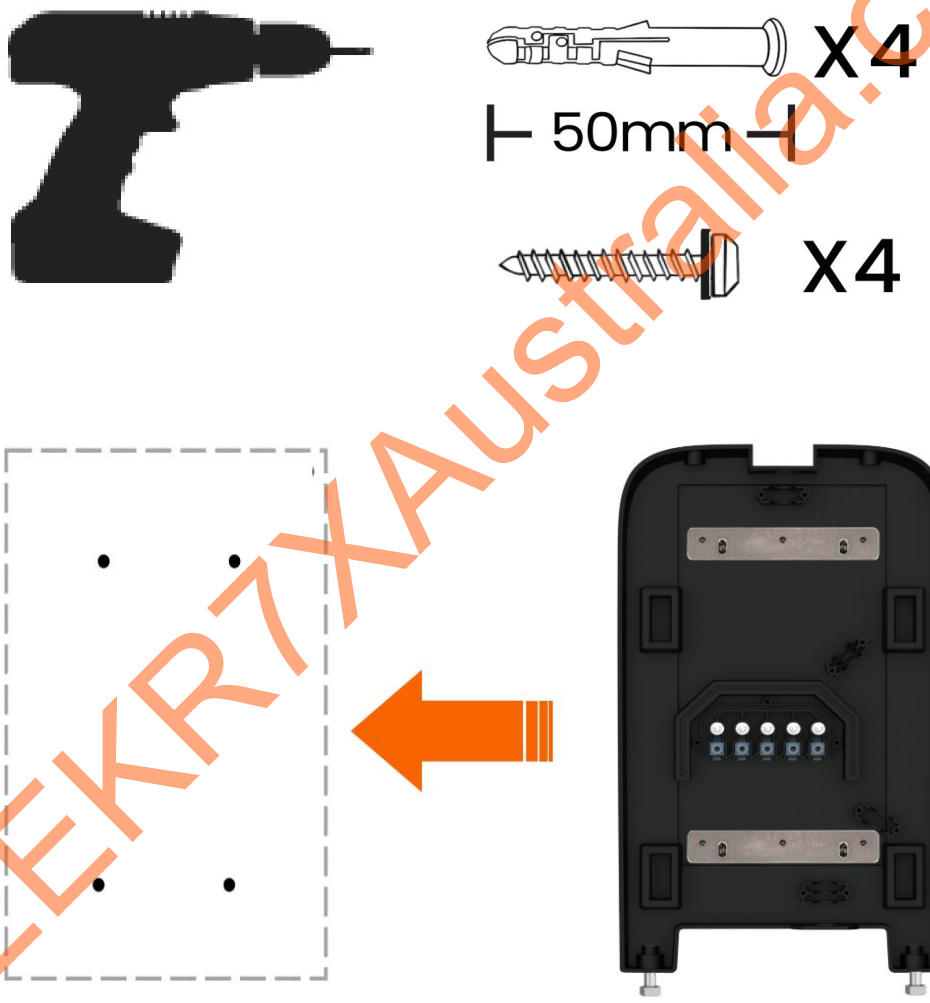




3 Mounting

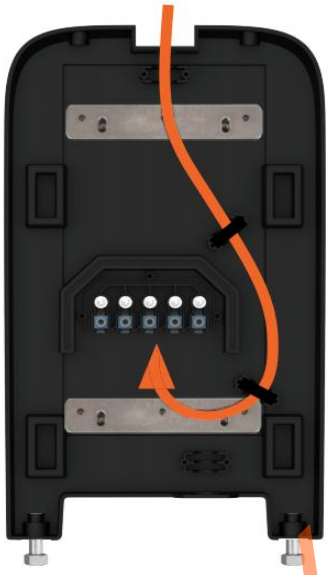
Do not drill holes on the backplate. Otherwise, the backplate may be damaged.

1. Use a hammer drill to drill holes on the wall at the marked positions, and place wall plugs into the holes. (Insertion depth: 50 mm; ϕ8mm)
2. Use wall-mounting screws to secure the backplate to the wall.



4 Cabling the backplate

1. Switch off the upstream RCBO.
2. There are two types of wiring, top wiring entry and bottom wiring entry. Please select the appropriate entry for your needs.



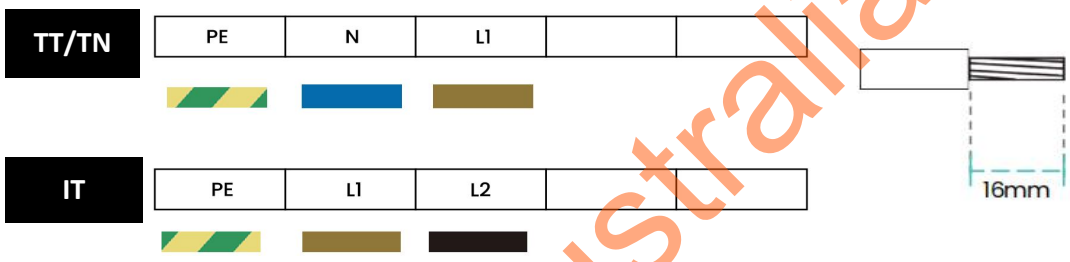
Top Entry

Bottom Entry

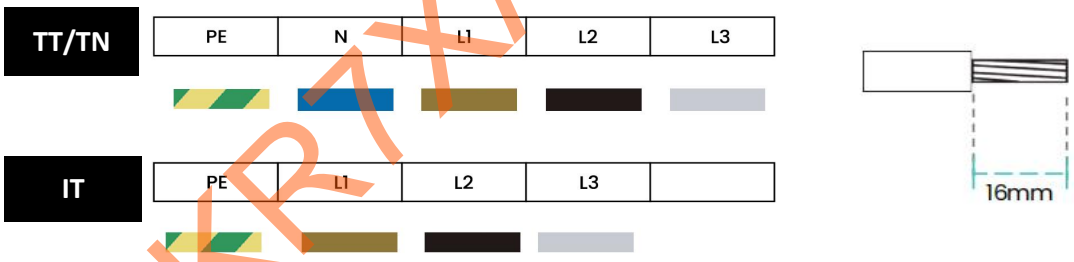
5 Connecting Power Cables

1. Confirm your grid type, TT/TN/IT; confirm whether it is 1-phase or 3-phase wiring.
2. Keep the screw terminals in the correct status. Connect cables to the correct terminals following the wiring guidelines on the backplate to link the cables. And then tighten the screws clockwise. Pull the power cables to check that the cables are securely connected. And check if the screws are in the required status. (Use an 4mm Hexwrench with a torque ≤5.6 N·m.)

The single phase wiring as follows:

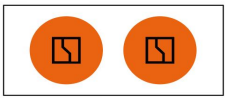


The three-phase wiring as follows:



6 Completing the Installation

1. Seal the cable hole with rubber plug.
2. Push in the charger and you will hear a sound of "clip".
3. Insert the lock pins at the bottom; then screw on the screws at the top. Be sure to be fastened.
4. Stick the security labels on the screws' cap.



Wallbox Usage

1. Read the installation precautions before using the product.
2. Ensure that the charger is not cracked or damaged.
3. Ensure that there is no liquid or other foreign matter on the charging connector or inside the charging port of the vehicle.

Charging by RFID Card

1. Open the vehicle's charging port and properly insert the charging connector into the vehicle charging inlet .
2. Place the RFID card in the tapping area to start a charging session. Keep the ring pattern on the card in the tapping area. If the LED ring turns green, the authorization is successful and charging session will start automatically.

Stopping Charging

Place the RFID card in the tapping area to stop a charging session.

Charging will automatically stop when the charging session is finished.

LED Ring

The wallbox is equipped with LED Ring to assist user to visually determine the status of the charger.

LED Status	Definition
White - steady on	Wallbox is available
Green - running effect	Charging
Green - steady on	Charging complete
Blue - running effect	Connected. Awaiting authentication
Blue - steady on	Authenticated. Awaiting EV response
Red - steady on	Fault state

Routine Maintenance

- Chargers do not need special maintenance. You are advised to check and clean the enclosure of the charger and accessories such as the charging connector every six months.
- Check whether the charger and cables are damaged.
- Use a dry cloth to clean the surface of the charger. Do not spray water directly on the charger.

Communication Specifications

	Operating Frequency Range	Maximum Transmit Power	Antenna Gain
WIFI	2400 MHZ - 2483.5 MHZ	18.93 dBm	2.85 dBi
BLE	2400 MHZ - 2483.5 MHZ	9.23 dBm	2.85 dBi
RFID	13.56 MHZ	/	0 dBi

Miscellaneous

Storage and Transportation

- Chargers should be transported in the original packages. Do not place other objects on the top of the charger.
- Store the product in a clean, dry, and adequately ventilated environment, with a relative humidity not exceeding 80%, and ensure it is free from corrosive gases before it is transported.
- The storage and transportation environmental requirements must adhere to the limits outlined in the Technical Specifications and should not surpass those specified.

Disassembly

- Only authorized and qualified electricians are allowed to disassemble the product.
- Power off the charger before disassembling it. Disassemble a charger in the reverse order of installation.

Disposal/Scrapping

- Dispose of the item at designated recycling facilities for electronic equipment. Ensure proper and environmentally responsible disposal of the product in accordance with local laws and regulations.
- Electronic devices cannot be disposed of as household waste.

Troubleshooting Common Faults

Error Code	Error Type	Solution
E00002	Residual current detected	Unplug the vehicle and plug in again. If the problem persists, consult the service of EV.
E00004	Ground fault	Make sure the charger is grounded correctly.
E00008	Overvoltage	Use the multimeter to check the voltage on the power input. If the voltage is greater than or equal to 120% of the nominal voltage (276V), consult local power grid company.
E00010	Undervoltage	Use the multimeter to check the voltage on the power input. If the voltage is less than or equal to 80% of the nominal voltage (184V), consult local powergrid company.
E00020	Overcurrent	Restart the charging process after a while. If the fault occurs again, consult the service of EV.
E00040	Severe overcurrent	Restart the charging process after a while. If the fault occurs again, consult the service of EV.
E00080	Overheat warning	· Check whether the EV charging cable is securely connected. · Ensure the operating temperature is within the specified range on the tecnical specifications. · Stop charging. Restart charging until it is within the operation temperature range.
E00100	Vehicle-side diode short circuit	Diode missing or diode short circuit in charging unit or simulator of EV. consult the service of EV.
E00200	Metering error	Restart the charging after a while. If the fault occurs again, consult the service of EV for support.
E00400	Relay error	Restart the charging after a while. If the fault occurs again, consult the service of EV for support.
E00800	CP interaction error	Consult the service of EV for support.
E01000	Electronic lock error	Consult the service of EV for support.
E02000	Phase loss error	Shut off the power. Check the wiring of power line firstly and upgrade the software of wallbox to the recent version and restart charging. If the fault occurs again, consult the service of EV for support.

For the detials of DoC, please refer to: