marvel® Tech

BCPP-A2S-32

GBT Plug

User manual

CONTENTS

1. Safety Information

Thank you for purchasing and using the Type 2 EV Charger. This document contains important instructions and warnings that must be observed in use and maintenance of this product. Please read this manual carefully before charging so that you can use the product correctly.

⚠ Warning

- Read this mandatory document in its entirety before using the product.
- Supervision shall be provided when the product is used around children.
- Do not install or use the product near flammable, explosive, irritating or combustible materials, chemicals or steam.
- Use is only permitted within the range of specified operating parameters.
- If the product is defective, cracked, worn, broken or otherwise damaged or inoperable, stop using or do not use it.
- Do not attempt to disassemble, repair, tamper with, or modify the EV Charger. Contact use for any repairs or maintenance.
- Do not make contact with its terminals by sharp metal objects, such as wires, tools or needles.
- Do not fold violently or apply pressure on any part of the charger, or damage it with sharp objects.
- Do not insert any foreign matter into any part of the charger.
- Confirm whether your vehicle parameters match the charger before use, otherwise your vehicle may be damaged.

⚠ Cautions

- For the safe use of electricity, outdoor service on rainy days is not recommended.
- Do not immerse AC charger in water.
- Do not tread, pull, bend or bundle the cable.
- Do not drop the control box or put heavy objects on its surface.
- Do not keep the equipment working near any object that causes high temperature.
- Do not keep the equipment working in a vehicle or an enclosed space.
- Do not use the product at a temperature out of the range of -30°C to + 50°C.

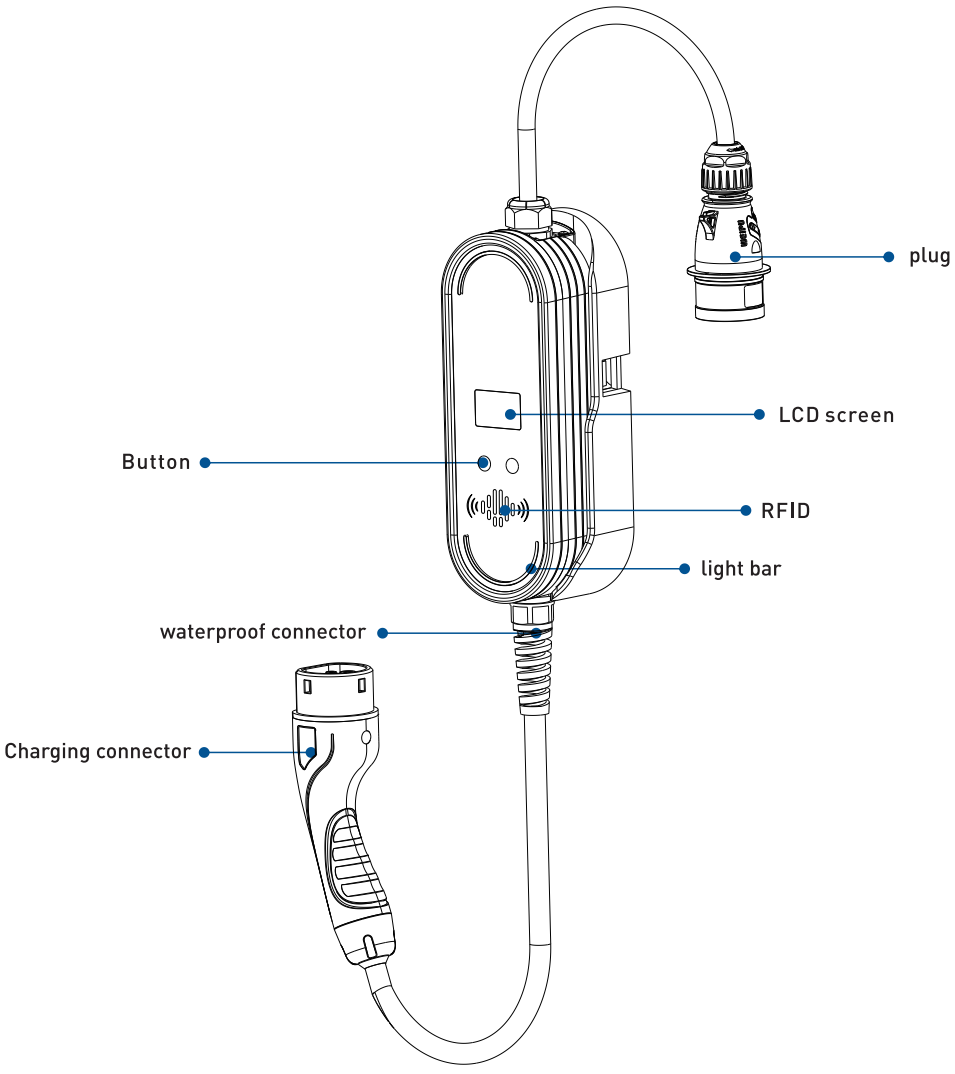
⚠ Notes

- It is suitable for EVs only.
- This product must be fully grounded during use.
- When the AC charger is in use (the power plug is inserted into the socket or the vehicle connector is connected to the vehicle), it is prohibited to remove or install any components.
- Do not finger into the charging plug.
- This product does not contain user maintainable parts. Do not attempt to repair or maintain it yourself.
- If it does not work properly according to this manual, contact your dealer for repair or replacement.
- Do not store this product outside the ambient temperature of -40°C to 85°C. Lower or higher temperatures will damage the equipment.
- When the product is not in use, it should be stored in a safe environment with less vibration and impact.

2. Product Description

BENY Portable&Wall-mounted AC EV Charger adopts plug-and-play design and supports selected connection methods to control your charger, providing convenient and efficient charging services.

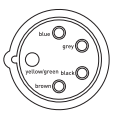
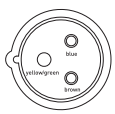
2.1. Appearance



2.2. Product Specification

Parameter description	Parameter					
Model	BCPP-A1-32	BCPP-A2S-32	BCPP-AT1-16	BCPP-AT2S-16	BCPP-AT1-32	BCPP-AT2S-32
Standard	IEC 62752, IEC 61851-21-2					
Rated input/output voltage	AC220V~240V 1-Phase		AC380V~415V 3-Phase		AC380V~415V 3-Phase	
Frequency	50Hz/60Hz					
Rated current	32A		16A		32A	
Standby power consumption	<2W					
Rated residual operating current (IΔn)	AC 30mA, DC 6mA					
Operating temperature	-30°C~50°C					
Storage temperature	-40°C~85°C					
Operating humidity	5%~95%					
Ingress protection (IP) rating	IP65					
Protection functions	Leakage Protection, Over Current Protection, Over Voltage Protection, Under Voltage Protection, Fire Protection, Anti-pressure Protection, Over Temperature Protection, Relay Adhesion Protection, Ground Protection, Lightning Protection, CP Signal Abnormal Protection					
Insulation resistance	>100MΩ					
Impulse withstand voltage	2.5KV					
Number of operating cycles	<10000					
Size of charging pile	304mm*106mm*89.5mm					
Altitude	<2000m					
Fire rating	UL94-V0					

2.3. Plug Types

			
Model Type	TYPR285	TYPR281	TYPR235
Current/Voltage	32A, 380-415V (3 phase)	32A, 200-250V (1 phase)	16A, 200/346-240/415V (3 phase)
Wire	H07BZ5-F 5G 6mm² + 1G 0.75mm²	H07BZ5-F 3G 6mm² + 1G 0.75mm²	H07BZ5-F 5G 2.5mm² + 1G 0.75mm²
Material	nylon	nylon	nylon

Note: When the industrial plug is perfectly connected to the charger, the IP rating of the connection part between the plug and charger can be IP65.
Note: The cables or plugs used with charger must be produced by manufacturer, and the use of cables or plugs and other components produced by other manufacturers is prohibited.

2.4. Features

- Build-in with Over Current Protection, Over Voltage Protection, Under Voltage Protection, Over Temperature Protection, Relay Adhesion Protection, Ground Protection, CP Signal Abnormal Protection, Fire Protection, Anti-pressure Protection and Type A + DC 6mA leakage.
- Operating temperature: -30°C~+50°C.
- IP65 protection, indoor and outdoor operating humidity range: 5%~95%.
- Temperature sensors in important areas of fire protection.
- Leakage current test ensures the normal operation of leakage protection.
- Automatic reset after troubleshooting, providing regular self-inspection of exception suppression when the charger stops working in case of an exception found. After the exception is eliminated, the charger will automatically come into operation.
- The product can be wall-mounted or portable. Air coupling plug available for all modes of connection.
- Plug and play design.
- Start via RFID card or APP (optional).
- Adjustable Charging Current for Easy Charging (optional).
- Lightning protection device ensures personal safety.
- Certificate: CE.

2.5. Product list

① 

EV charger

X1

② 

RFID card (optional)

X2

③ 

8*40 socket head screws and anchorings

X4

④ 

Base fastener

X1

⑤ 

Base (optional)

X1

Note: Card type supported by RFID: RF card ISO14443 Type A, MIFARE® ONE (MF1) card, with the read-write frequency of 13.56MHz±7K.

3. Installation

3.1. Preparation

Installation location

- Make sure that the parking position is within the range of charging cable.
- There is enough space for windings of charging cable, and the charging handle can be properly placed on one side of the base.
- In an enclosed garage, install it on one side of the charger slot.
- For outdoor installation, waterproof protection is recommended but not mandatory.
- Install in a well-ventilated space. Avoid installation in a closed box or near high-capacity appliances.

Installation height

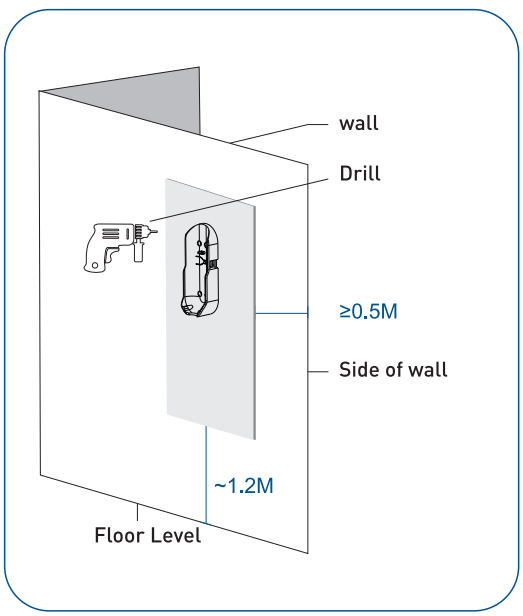
- Maximum height (indoor and outdoor): 60 in. (1.5 m)
- Recommended height: 47 in. (~ 1.2 m)
- Minimum outdoor height: 24 in. (0.6 m)
- Minimum internal height: 18 in. (0.45 m)

Maximum distance of receiving WiFi signals (Applicable to Bluetooth models)

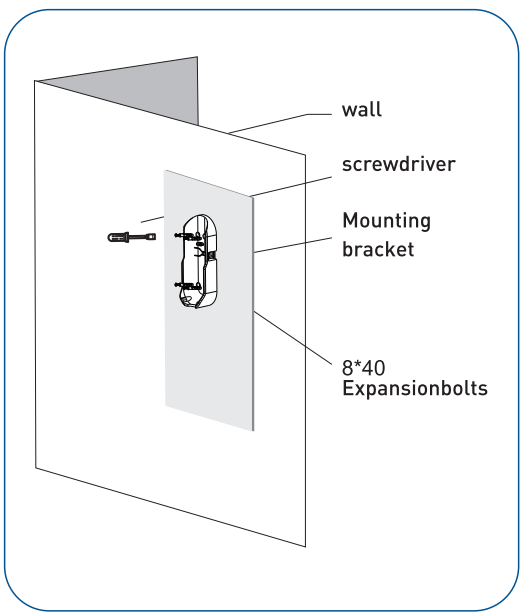
- For optimal functioning, the wall-mounted connector should be connected to the local Wi-Fi network. To receive maximum signals, avoid far distance of installation as this may hinder the reception of Wi-Fi signals.

3.2. Installation procedure

- Step 1:



- Step 2:



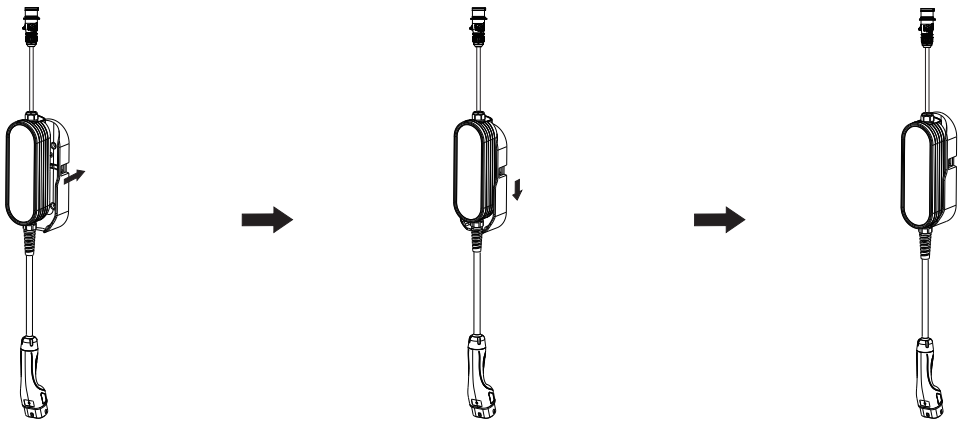
Step 1: Positioning

The bottom of the positioning plate is recommended to be 1.2 m above the ground. For installation near the wall edge, the positioning plate should be at a distance of greater than 0.5 m from the wall edge.
Lean the base against the wall. Trace the hole positions with a marker pen, and then drill holes according to the markings.

Step 2: Installing bracket

Drive the expansion bolt into the hole and secure the bracket to the wall with 8*40 screws.

Step 3:



1.Put the charger to the mounting base.

2.Fix the charger like picture.

3.After correct fix, you will hear a click sound.

Warning:

- Do not dismantle or modify charging facilities and lines arbitrarily, otherwise, fire or electric shock may occur.
- In case of power failure or outage, maintenance can only be performed by professionals or authorized operation and maintenance personnel, otherwise electric shock may occur; maintenance with the device not disconnected from the power source is prohibited as this may cause electric shock.
- No combustible or flammable material is permitted around the equipment. Such material, if any, should be timely removed, otherwise there is risk of fire.

4. Charger Usage Steps

4.1. Check before powering ON

- Check and ensure that a proper circuit breaker is selected for the charger.
- Make sure there is no short circuit in the AC output live/neutral/ground wires of the charger.
- Make sure the charging gun is not connected to the vehicle.
- Make sure the circuit breaker is closed.

4.2. Charger Self-check

- Within about 10 seconds of powering ON, the charger will perform a self-check.
- During the self-check process, the white LED light of the charger is always ON, shows the self-check process.
- After the self-check is completed, observe the status of the LED indicator. Normal standby state: The white breathing light is ON. Equipment failure: red light is ON (see charger status table).

4.3. Charging Steps

1. Insert the power plug into a fixed socket.
2. Insert the charging gun into the vehicle.
3. Make Charging Settings.
4. Plug and play. (If RFID is selected, card swipe is required.)

4.4. Charging Finish

1. When the EV is fully charged or the EV battery reaches the charging percentage threshold set by the EV itself, charging will stop automatically .

2. To interrupt the charging process: Unplug the tip to stop charging.
(If RFID is selected, you can stop charging by swiping the card; if Bluetooth is selected, you can stop charging through the app.)

3. Unplug the charging gun from the electric vehicle charging port.

4. Unplug the power plug from the fixed electrical outlet.

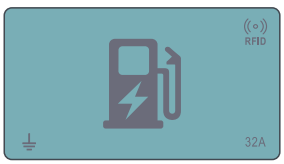
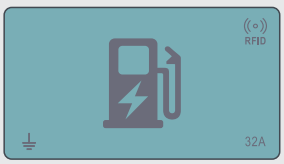
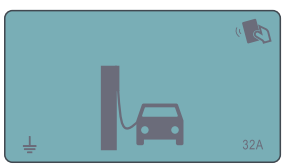
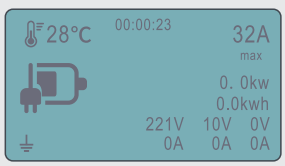
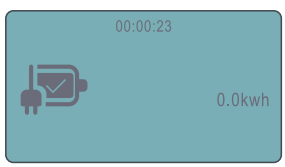
5. Keep charging equipment in a safe environment with less vibration and impact.

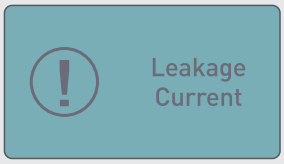
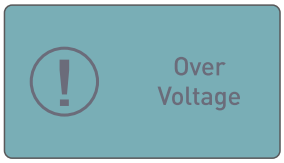
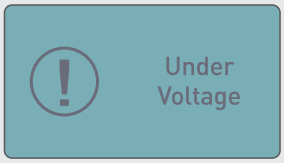
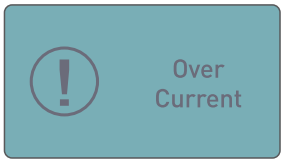
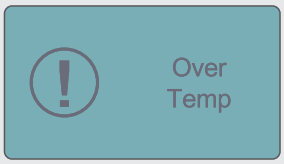
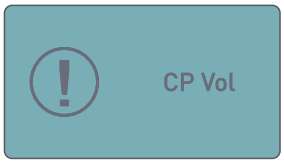
Note: Before turning ON the power, to ensure safety, you should connect one end of the power plug cord to one end of the pile body before turning on the power.

Note: Before use the charger, you must ensure that the power plug of the charger is directly connected to the fixed socket and that the charging gun plug is fully coupled with the electric vehicle charging socket. The use of any extension cord or adapter is prohibited.

Note: If the charger still cannot be used after following the installation and usage instructions, please contact the agent or manufacturer for technical support in a timely manner.

5. Operating Status

Normal Status				
LED lamp status	Screen status	EV charger status	Fault description	Solutions
	Screen off	No power supply	No power supply	Check the power supply
		Charger Power ON self test		
		Standby		
		Charger is authorized, waiting for connection to the vehicle		
		Charger is connected to the vehicle, waiting for RFID card swiping or clicking Start		
		Charging		
		Charging completed		

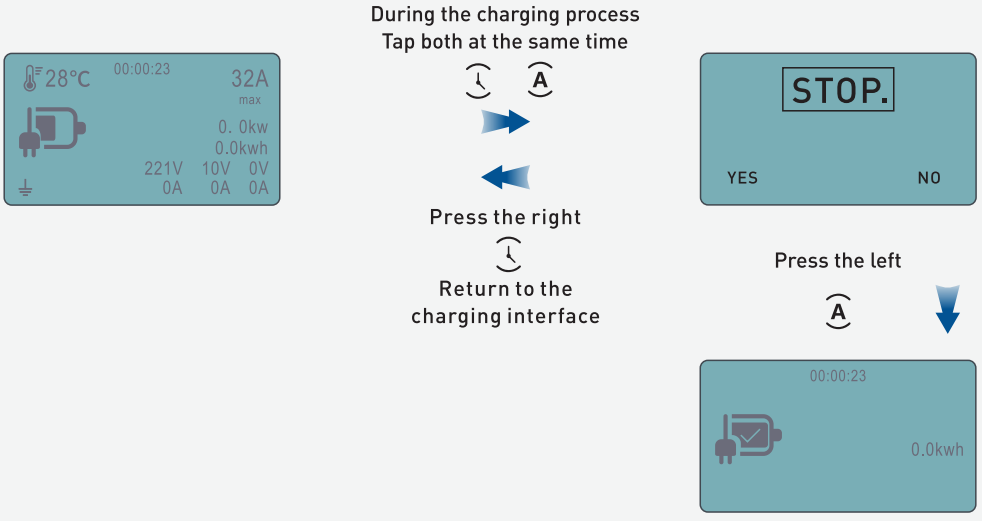
Fault state				
LED lamp status	Screen status	EV charger status	Fault description	Solutions
		Abnormal grounding	The ground wire is not wired or the neutral wire is reversed	Check whether the grid connection and charger wiring is correct
		Leakage fault	Leakage	Check for leakage of charger connector or vehicle
		Over-voltage	Short circuit or unstable power supply	1. Check the power unit 2. Check the power supply wiring
		Under-voltage	Power supply under voltage	1. Check the power unit 2. Check the power supply wiring
		Over-current	Possible short circuit	Arrange professionals for repair
		Over-temperature alarm	High temperature	1. Wait until the charger cools down 2. Make sure no loose connection of the charger terminal
		Abnormal CP signal	Loose connection between the charger and the vehicle	1. Check for water leakage of the charger connector 2. Make sure that the connector matches the vehicle

Fault state				
	Relay Adhesion	Relay Abnormal	Relay Adhesion	Emergency stop charging, restart charger to check if it is normal; If not, please contact the dealer
	Relay NO Action		Relay No Action	

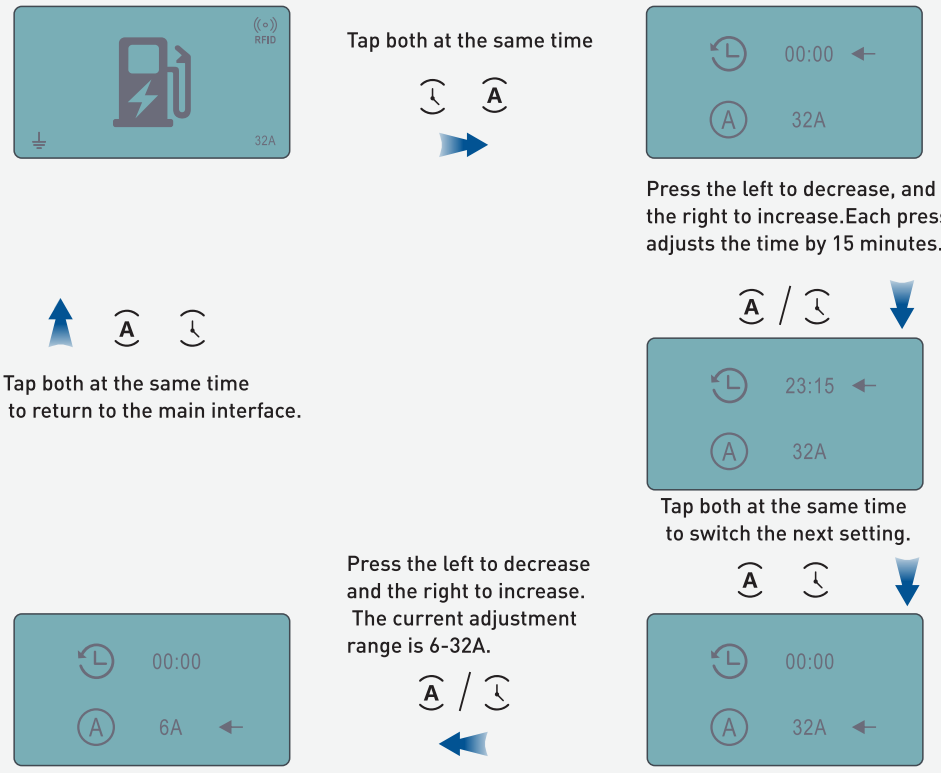
Note on Touch Buttons:

When the EV charger is equipped with Bluetooth functionality, the buttons will be inoperable.
The following operations can be configured via the APP.

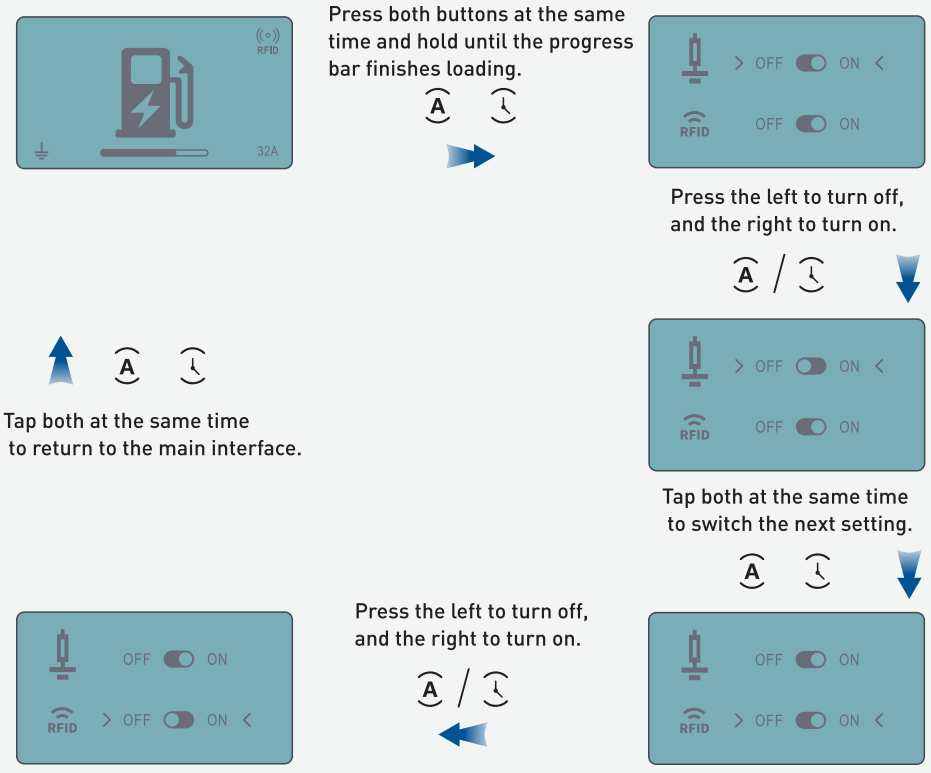
6. How to Emergency Stop Charging



7. How to Set Timed Charging and Charging Current



8. How to Enable/Disable Ground Detection and RFID



9. How to reset the EV charger

Turn on the AC charger. When you hear the buzzer sound, turn off the device within five seconds. Repeat the above power-on and power-off operations five times to restore the factory settings.After that, the buzzer will beep three times to indicate that the device has been successfully reset.

(If the AC charger is equipped with an RFID function, you are required to perform a card-swiping operation after the fifth power-on to successfully restore the factory settings.)

10. Warranty

In order to ensure the normal service life of charging piles and reduce the risks in use, maintenance must be done within the specified time by professionals with accredited safety maintenance tools.

- Two-year free warranty is provided for any damage or malfunction caused by quality problems from the date of production of the charger.
- Damage caused by operation failure, natural force majeure, incorrect installation or instructions for use is not covered by warranty.
- Repair can only be performed by professionals. If any problem occurs during installation or use, contact your dealer first.

11. APP Downloading (Applicable Only to the Bluetooth Model)

Android

Open Google Play

Click Search bar
Input “Z-BOX”

Z-BOX

Find ““Z-BOX”APP”

Z-BOX

Click “Download”

IOS

Open APP Store

Download on the App Store

Click Search bar
Input “Z-BOX”

Z-BOX

Find ““Z-BOX”APP”

Z-BOX

Click “Download”