marvel® Tech

BCPP-A1M-16

GBT Plug

User manual

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1.Safety Information

Thank you for purchasing and using the electric vehicle mode 2 charger.
This document contains important instructions and warnings that must be followed when using and maintaining the E V Charger.
In order to help you to use the product correctly,please read this manual carefully before charging.

Warning

- Read this entire mandatory document before using the EV charger.
- This device should be supervised when used around children.
- Do not install or use the EV Charger near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
- Use the EV Charger only within the specified operating parameters.
- Stop using and do not use the EV charger if it is defected, cracked, frayed, broken, or otherwise damaged, or fails to operate.
- Do not attempt to disassemble, repair, tamper with, or modify the EV charger.Contact use for any repairs or maintenance.
- Do not touch the EV Charger's end terminals with sharp metallic objects, such as wire, tools ,or needles.
- Do not forcefully fold or apply pressure to any part of the EV Charger or damage it with sharp objects.
- Do not insert foreign objects into any part of the EV Charger.
- Before use, please confirm whether the parameters of the electric vehicle match the chargers, otherwise it may cause damage to the vehicle.

Cautions

- For safe electricity usage, it is not recommended to use the device to charge in the open air on rainy days.
- Do not immerse the AC Charging device in water.
- Do not step on the cable, pull the cable, bend the cable or tie the cable.
- Do not drop the control box or put heavy objects on its surface.
- Do not place the device near objects that generate high temperature while charging.
- Do not put the device in the car or in a closed space while charging .
- Do not operate the EV Charger in temperatures outside its operating range of -30°C to +50°C.
- When not charging, seal the charging connector interface with a waterproof silicone cover to prevent rain/moisture from entering and causing patina.

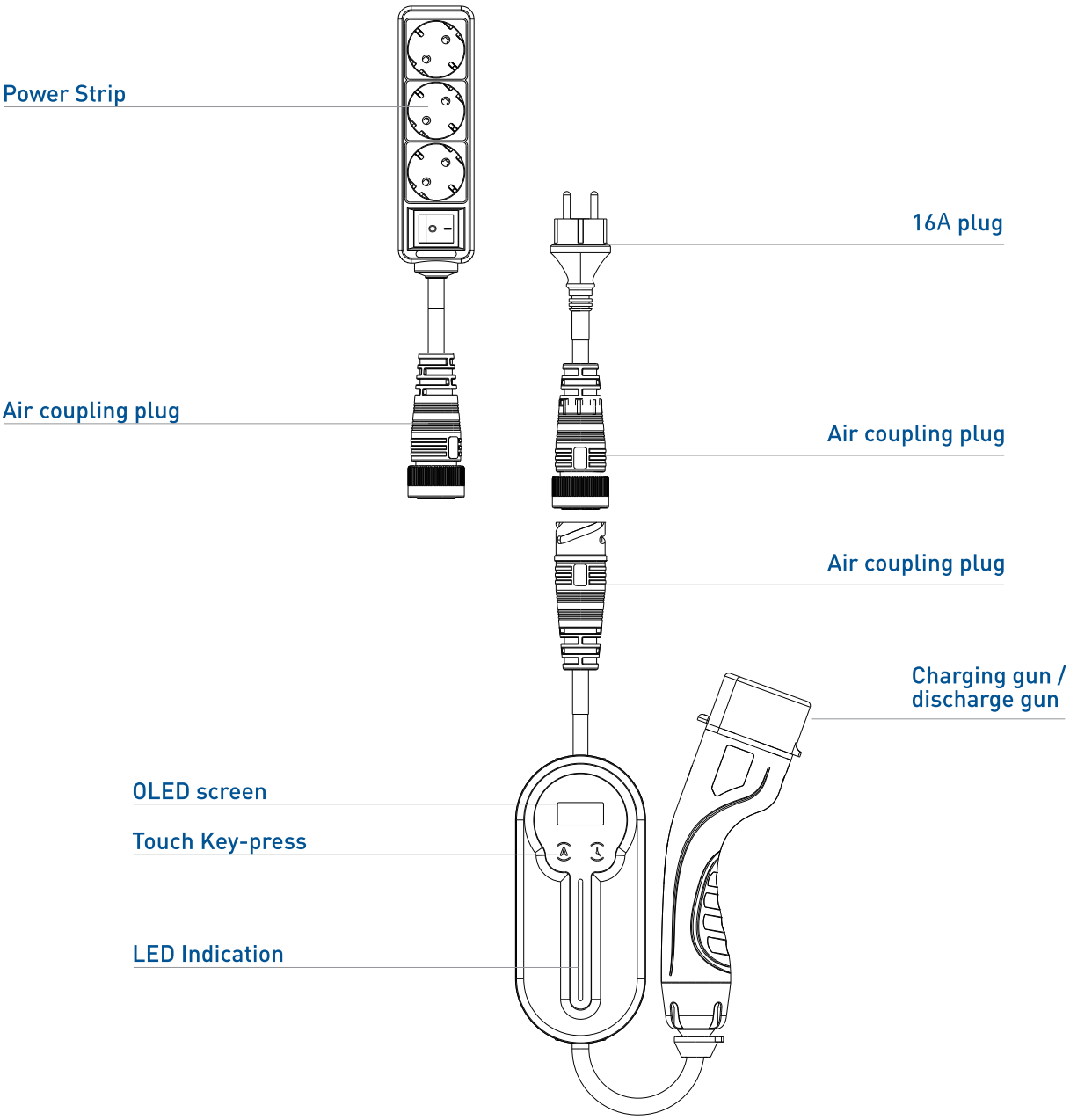
Notes

- For electric vehicle charging only.
- This product must be well grounded when using .
- When the EV 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 use the device when the charging cable is damaged
- Do not put your fingers in the charging plug
- Do not use extra wires or adapters
- This produce does not contain user maintainable parts, please do not attempt to repair and maintain it yourself.
- If the device cannot be charger normally according to this operation manual, please contact the 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 Introduction

The charging pile is designed according to I EC 62752 and IEC 61851-21-2 standards, mainly composed of control box, charging gun, power plug, etc. It is a portable electric vehicle charging device. It allows car owners to charge electric cars anywhere using standard home power ports, with high efficiency and portability. In addition, users can also switch the charging pile to the external power supply connector of the electric vehicle by replacing the plug and plug device of the charging pile, realizing the function that the electric vehicle can provide electricity to the external load of the vehicle, namely V2L (vehicle-to-load).

2.1. Product Appearance



2.2. Product Specification

Parameter description	Parameter
Model	BCPP-A1M-16
Standard	IEC61851, IEC61851-21-2
Rated Input/Output Voltage	230V (100~265V)
Rated Input/Output Voltage	230V
Rate Charging Current	8A/10A/13A/16A
Rated Discharge Current Range	10A
Frequency	50Hz/60Hz
Standby Power Consumption	<1.5W
Operating Temperature	-30℃~50℃
Storage temperature	-40℃~85℃
Operating Humidity	5%~95%
IP Protection	IP65
Safety Protection	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
Dielectrical Strength	1430VAC/1 min
Impulse Withstand Voltage	2.5kV
Working Life	<10,000 times
Flame Retardant Rating	UL94-V0
Operating Altitude	<2000m
Charger Dimension	L:200mm W:90mm D:55.5mm
Plug Cable Length	0.5m
Power Strip Cable Length	0.5m
Total Length	7m

2.3. Pluggable device type

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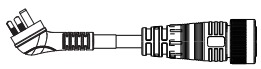
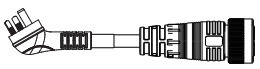
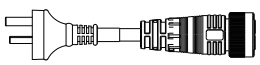
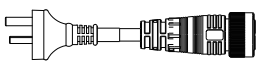
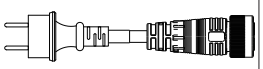
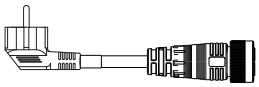
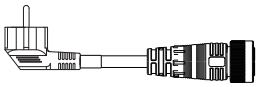
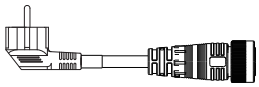
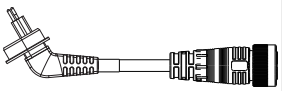
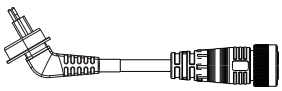
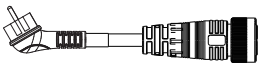
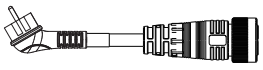
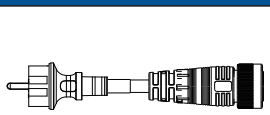
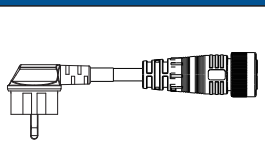
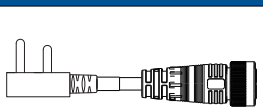
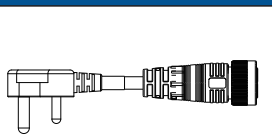
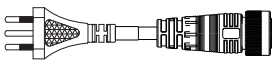
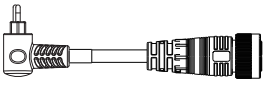
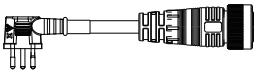
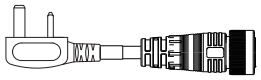
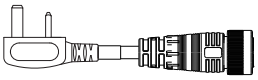
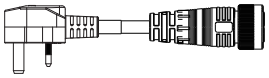
				
Model Type	ZH-41AA	ZH-41AN	KMEP-03-1	KMEP-03-2
Current/Voltage	10A/250V~	10A/250V~	10A/250V~	15A/250V~
Protection Degree (Disconnected state)	IP20	IP20	IP20	IP20
Protection Degree (Connected state)	IP65	IP65	IP65	IP65
Wire	H07BZ5-F 3G 2.5mm²+2G 0.5mm²	H07BZ5-F 3G 2.5mm²+2G 0.5mm²	H07BZ5-F 3G 2.5mm²	H07BZ5-F 3G 2.5mm²
Material	P.V.C	P.V.C	P.V.C	P.V.C

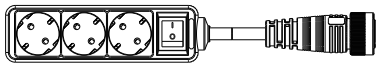
	EU	EU	EU	EU
				
Model Type	ZH-3	ZH-1A	ZH-1	ZH-1AN
Current/Voltage	16A/250V~	16A/250V~	16A/250V~	16A/250V~
Protection Degree (Disconnected state)	IP20	IP20	IP20	IP20
Protection Degree (Connected state)	IP65	IP65	IP65	IP65
Wire	H07RN-F 3G 2.5mm²	H07BZ5-F 3G 2.5mm² + 2G 0.5mm²	H05VV-F 3G 2.5mm²	H07BZ5-F 3G 2.5mm² + 2G 0.5mm²
Material	P.V.C	P.V.C	P.V.C	P.V.C

	EU	EU	EU	EU
				
Model Type	ZH-32AE	ZH-32AN	ZH-3E	ZH-3N
Current/Voltage	10A/250V~	10A/250V~	16A/250V~	16A/250V~
Protection Degree (Disconnected state)	IP20	IP20	IP20	IP20
Protection Degree (Connected state)	IP65	IP65	IP65	IP65
Wire	H07BZ5-F 3G 2.5mm² + 2G 0.5mm²	H07BZ5-F 3G 2.5mm² + 2G 0.5mm²	H07BZ5-F 3G 2.5mm² + 2G 0.5mm²	H07BZ5-F 3G 2.5mm² + 2G 0.5mm²
Material	P.V.C	P.V.C	P.V.C	P.V.C

	EU	EU	ZA	ZA
				
Model Type	KEC001	KEC002	ZH-70A	KMEP-04
Current/Voltage	16A/250V~	16A/250V~	16A/250V~	16A/250V~
Protection Degree (Disconnected state)	IP20	IP20	IP20	IP20
Protection Degree (Connected state)	IP65	IP65	IP65	IP65
Wire	H07BZ5-F 3G 2.5mm²	H07BZ5-F 3G 2.5mm²	H07RN-F 3G 2.5mm²	H07BZ5-F 3G 2.5mm²
Material	P.V.C	P.V.C	P.V.C	P.V.C

	BRZ	BRZ	BRZ
			
Model Type	ZH-72B	ZH-72BN	KMEP-09
Current/Voltage	20A/250V~	20A/250V~	20A/250V~
Protection Degree (Disconnected state)	IP20	IP20	IP20
Protection Degree (Connected state)	IP65	IP65	IP65
Wire	H07RN-F 3G 2.5mm²	H07BZ5-F 3G 2.5mm² + 2G 0.5mm²	H07BZ5-F 3G 2.5mm²
Material	P.V.C	P.V.C	P.V.C

		ZA	ZA
	UK	UK	UK
			
Model Type	ZH-61B	ZH-61BN	KEC003
Current/Voltage	13A/250V~	13A/250V~	13A/250V~
Protection Degree (Disconnected state)	IP20	IP20	IP20
Protection Degree (Connected state)	IP65	IP65	IP65
Wire	H07BZ5-F 3G 2.5mm²	H07BZ5-F 3G 2.5mm²+2G 0.5mm²	H07BZ5-F 3G 2.5mm²
Material	P.V.C	P.V.C	P.V.C

	
Model Type	HT-GBK03
Current Voltage	16A/250V (3 phase)
Protection Degree (Disconnected state)	IP20
Protection Degree (Connected state)	IP65
wire	H07BZ5-F 3G 2.5mm²
Material	Plastic PP

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 IP67.

Note: Use only the original charging cables and plugs provided by our company with the charger. Third-party cables, plugs, or related components are strictly prohibited.

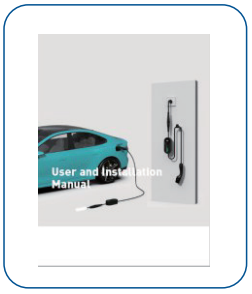
Note: Different countries support different charging devices, please only use charging devices approved for your country.

2.4. Product Packing List


x1


x1

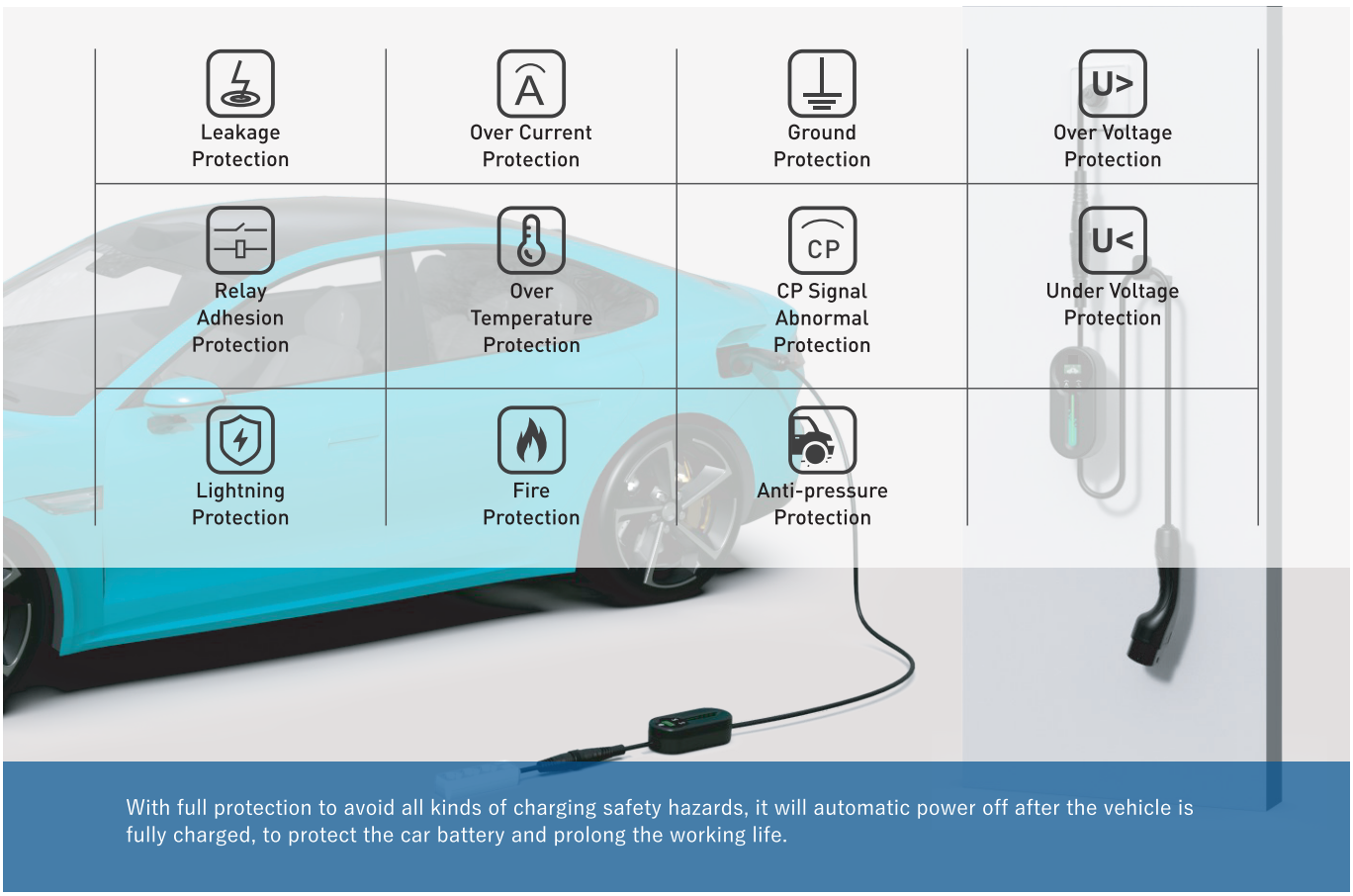

x1



x1

NO.	Item	Quantity
1	Portable AC EV Charger	1
2	Socket	1
3	Portable EV Charger Bag	1
4	User Manual	1

2.5. Protection Functions



2.6. Product 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 B Leakage Protection.
- This product can be used as a charging pile to charge electric vehicles, or as wellThe external power supply connector of electric vehicle realizes the function of electric vehicle providing electricity to the external load of the vehicle.
- It can be charged by appointment, 0-24 hours.
- Adjustable Charging Current for Easy Charging.
- Automatically recharge after power failure recover.
- With lightning protection device to ensure personal safety.
- With OLED screen display, more intuitive and clear.
- With Touch key-press, more flexible and convenient operation.
- IP66 protection, operating humidity range 5%-95% for indoor and outdoor.
- Operating temperature range: -30°C ~ +50°C.
- Standard: IEC 62752, IEC 61851-21-2.

3. direction for use

3.1. Charger Usage Steps

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.

Charger Self-check

- Within about 10 seconds of powering ON, the charger will perform a self-check.
- During the self-check process, the green 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 green light is ON.Equipment failure: red light is ON (see charger status table).

Charging Steps

- Couple the plug end and the control box end in place.
- Insert the power plug into a fixed socket.
- Insert the charging gun into the vehicle.
- Make Charging Settings.
- Click to start charging on screen or swipe your card to charge.

Charging Steps

- When the EV is fully charged or the EV battery reaches the charging percentage threshold set by the EV itself, charging will stop automatically .
- Interrupt charging process: Interrupt charging by clicking the left and right keys on the charging pile control box at the same time.
- Unplug the charging gun from the electric vehicle charging port.
- Unplug the power plug from the fixed electrical outlet.
- 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.

3.2. Electric vehicle discharge step

- Confirm that the electric vehicle has the discharge function, and read through the specific operation instructions on the discharge function in the electric vehicle specification.
- The air plug end of the row and the charging pile control box are coupled in place, and then the discharge gun is inserted into the AC charging port of the vehicle.
- Click on the control box to confirm the discharge function.
- The power indicator light on the socket is on, indicating that the socket is successfully connected to the vehicle, the power is normal and can be used.
- When stopping the discharge, please first click to stop the discharge on the control box, then unplug the load on the socket, and finally pull out the discharge gun.

Note: Some models need to manually turn on the discharge function at the vehicle end first, and refer to the vehicle discharge instructions for details.

Note: The maximum power of the load shall not exceed the rated maximum power of the socket of 2.3kW.

Note: When using electrical appliances, ensure that the insulation performance of the electrical appliances is in good condition and avoid contact with the body under the power state.

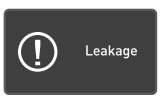
Note: Some vehicles will not close the electronic lock during the discharge process, and there is no lock gun function. Reference to the vehicle discharge instructions for details.

Note: When an electric vehicle is discharging, the discharge gun is fully coupled with the slow charging interface of the electric vehicle, and the load should be directly connected and inserted. Any extension line (extension cord) or adapter (adaptor) is prohibited.

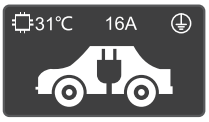
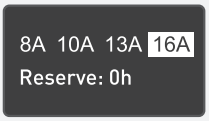
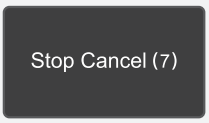
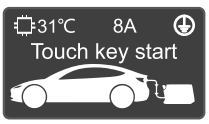
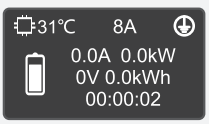
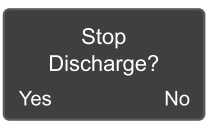
4. Operating Status

4.1. LED Light Description

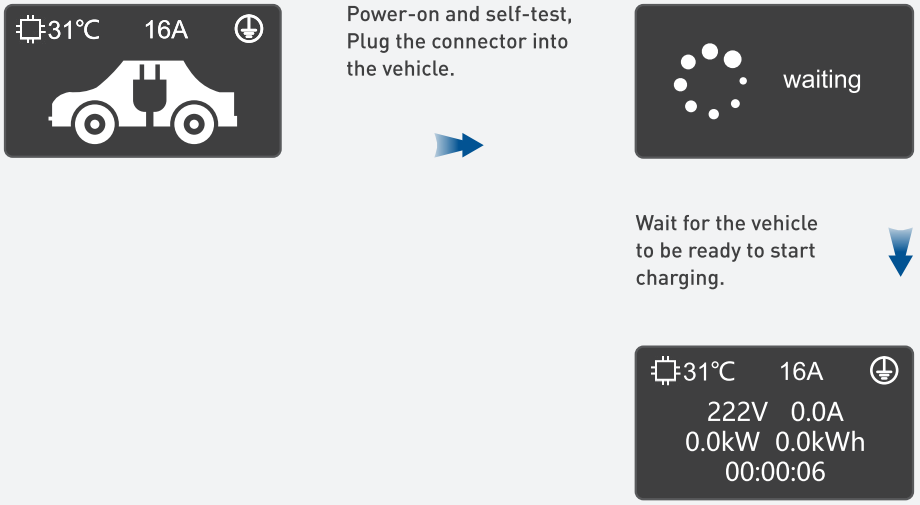
Normal Status				
LED Lights Status	**LED Lights Status**	**EV Charger Status**	**Potential Cause**	**Action**
	LED Off	No Power	Power is not on	Check Power
	Green light on	Standby		
	Streaming light runs back and forth	Plug the connector to set timer charging (Not ready to charge)		
	Streaming light runs two ends to middle	The charger is ready, the vehicle is not ready.		
	LED light runs from middle to end (Not to bottom)	Charging without current	Plugged to start charging	Check if connector plugged
	Streaming light runs from middle to up and down	Normal charging or discharging		
	All lights on green	Charging completed		

Fault Status				
LED Lights Status	**OLED Screen Status**	**EV Charger Status**	**Potential Cause**	**Action**
		Emergency Stop Protection	Accidentally touch the emergency stop	Pull out the charging connector and re-plug it
		CP Signal Abnormal Protection	Charging connector loose	Tighten charging connector
		Over Current protection	Short Circuit	Waiting for professional repair
		Over Temperature Protection	The ambient temperature is too high to cause an alarm	Wait for the temperature recover and automatically recharge
		Poor grounding	Ground wire not connected	Check if socket is grounded, if without grounding wire, you can turn on emergency charging
		Over Voltage Protection	Short circuit of home lines or unstable of grid power	Check the home lines... Wait for grid power to recover
		Under Voltage Protection	Insufficient grid voltage	Wait for gridpower to recover
		Leakage Protection	There is residual current	Check if there is a leakage of end of the vehicle
		Relay Abnormal	Relay Adhesion	Emergency stop charging, restart charger to check if it is normal; If not, please contact the dealer
		Relay Abnormal	Relay No Action	
		No pluggable device was detected	The control box is not connected	Ensure that the charging plug or socket are firmly connected to the control box

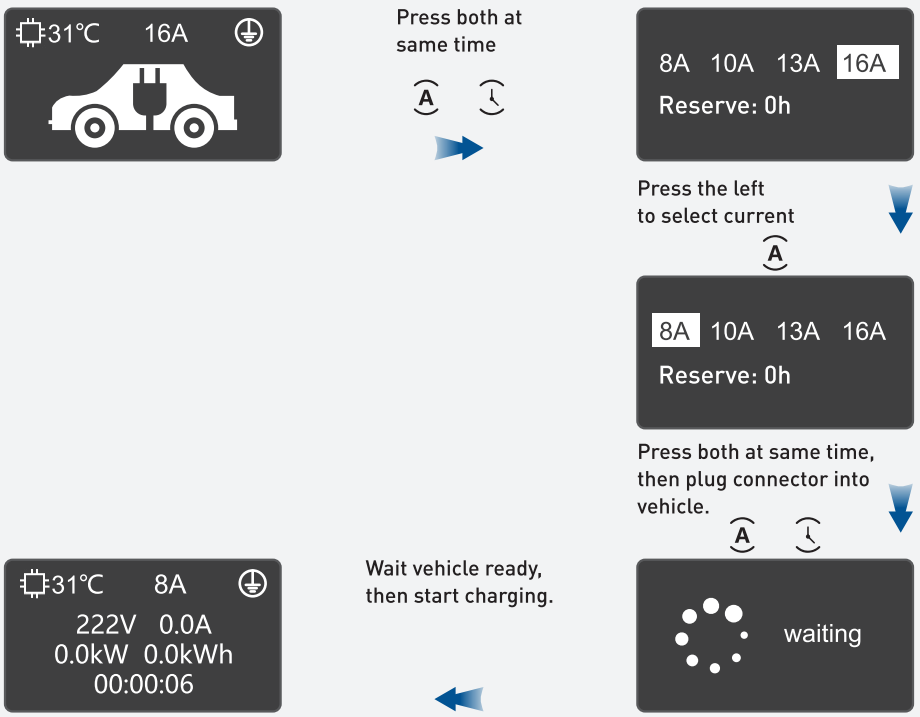
4.2.0LED Screen Description

Picture	Status	Press Left Key	Press Right Key	Press Left and Right Together
	Poor grounding			Ignore poor grounding and start charging
	Wait for Plug			Enter interface of setting
	Setting	Set max charging current	Set timer charging	Save Settings
	Charging			Enter interface for emergency stop charging
	Emergency stop charging	Stop	Cancel	
	Wait for the user to click the button to start the discharge	discharge	discharge	
	In discharge	Enter the stop discharge interface	Enter the stop discharge interface	
	Stop discharge	Stop	Cancel	

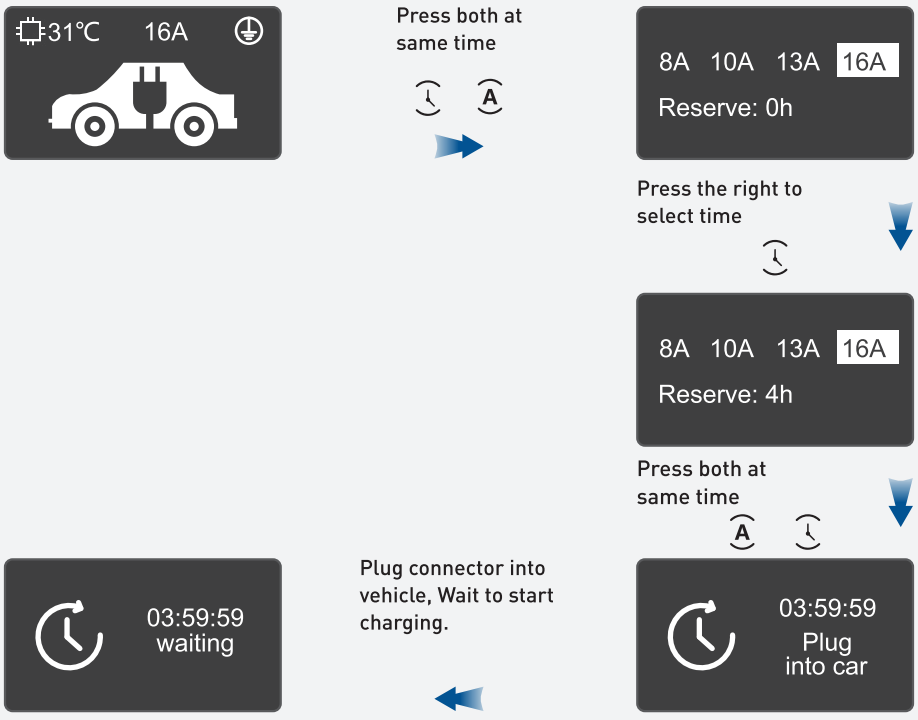
5. How to Plug and Play



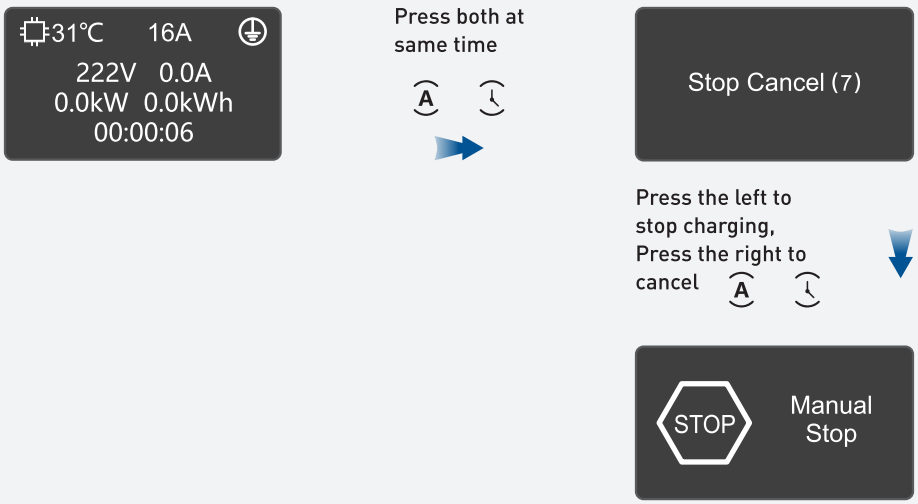
6. How to set charging current



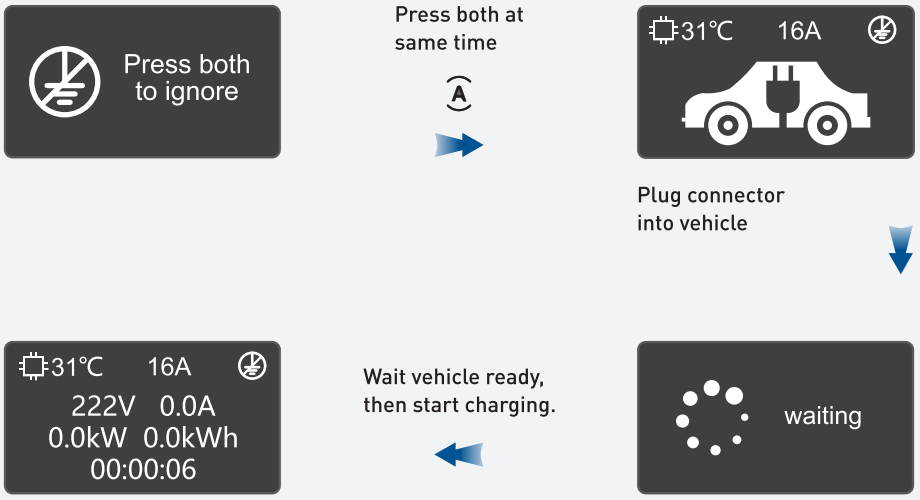
7. How to set a timed charging



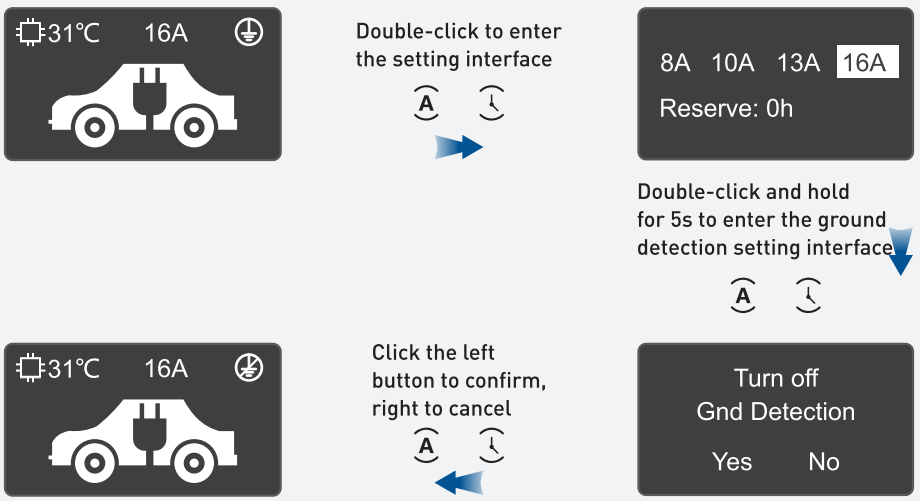
8. How to emergency stop charging



9. How to set temporarily charging when the socket without ground wire

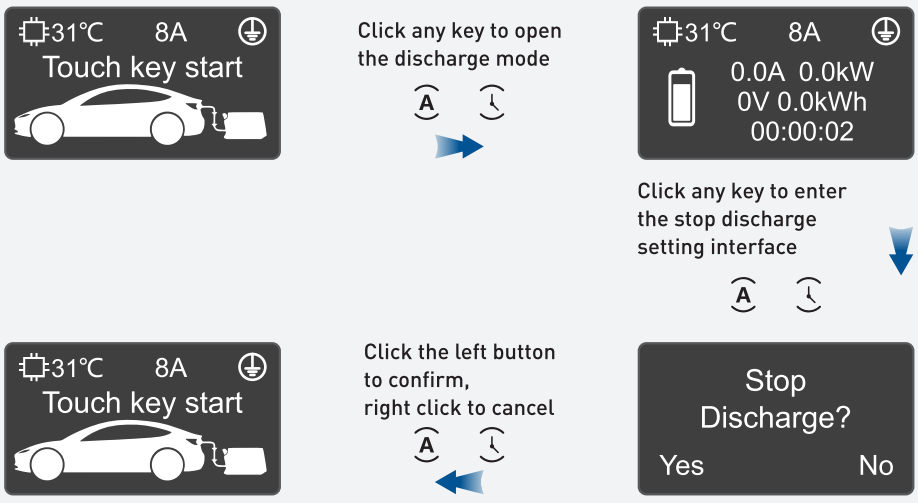


10. Permanently turn off the ground detection setting



Note: It is not recommended to cancel the upstream PE detection function.Turning off ground PE detection may cause safety risks.

11. How to open and stop the discharge



12. Warranty Description

- Two-year free warranty is provided for any damage or malfunction caused by quality problems from the date of production of the charger.
- Any damages caused by failure of operations, irresistible natural reasons, wrongs installation or use against with the instructions, is not covered by the warranty.
- Non-professionals are not allowed to repair the chargers, Any problems during installation or use, please contact the dealer first.