

Portable EV Charger User Manual

ZHEJIANG BENYI NEW ENERGY CO.,LTD.
WENZHOU BRIDGE INDUSTRIAL ZONE, BEIBAIXIANG TOWN, ZHEJIANG, CHINA
TEL: +86-577-5717 7008 FAX: +86-577-5717 7007
VERSION: 20230829
benyi@zjbeny.com

www.beny.com
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Portable EV Charger

1. Safety Information

Thank you for purchasing and using the Benyi electric vehicle mode 2 charger. This document contains important instructions and warnings that must be followed when using and maintaining the EV 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.

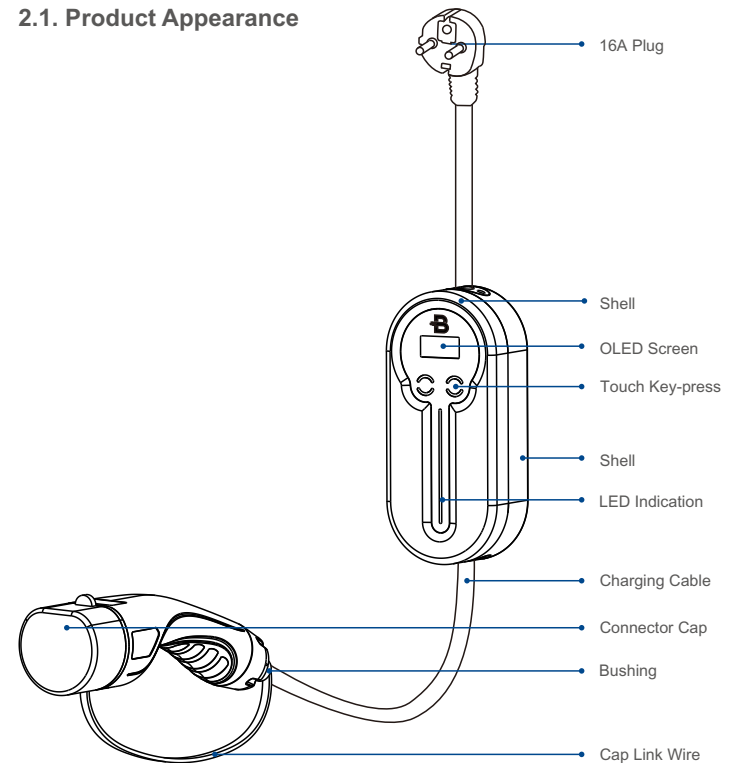
⚠ Notes

- For electric vehicle charging only
- This product must be well grounded when using
- 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.

2. Product Introduction

The charger is designed according to IEC 62752, IEC 61851-21-2 standard, mainly consists of control box, charging connector, plug and etc... Which is a portable electric vehicle charging device. It enables car owners to charge electric vehicles anywhere using a standard home power interface, featuring high efficiency and portability.

2.1. Product Appearance






Portable EV Charger



2.2. Product Specification

Item	Parameter
Model	BCPP-A1-16
Standard	IEC 62752, IEC 61851-21-2
Rated Input/Output Voltage	230V(100~265V)
Frequency	50Hz/60Hz
Rate Charging Current	8A/10A/13A/16A
Standby Power Consumption	<1.5W
Operating Temperature	-30°C~50°C
Storage temperature	-40°C~85°C
Operating Humidity	5%-95%
IP Protection	IP66
Safety Protection	Leakage Protection, Over Current Protection, Over Voltage Protection, Fire Protection, Under Voltage Protection, Over Temperature Protection, Relay Adhesion Protection, Ground Protection, Lightning Protection, CP Signal Abnormal Protection, Anti-pressure Protection
Insulation Resistance	>100MΩ
Dielectrical Strength	1430VAC/1min
Impulse Withstand Voltage	2.5KV
Working Life	<10000 times
Flame Retardant Rating	UL94-V0
Operating Altitude	<2000m
Charger Dimension	L:200mm W:90mm H:55.5mm
Plug Cable Length	1m
Total Length	7m as standard (Customized length available)

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2.3. Plug Types

	EU (German)	AU	ZA
			
Model Type	ZH-3	YP-39A	ZH-70A
Current/Voltage	16A/250V~	20A/250V~	16A/250V~
Wire	H07BZ5-F 3G 2.5mm ²	H05VV-F 3G 2.5mm ²	H07RN-F 3G 2.5mm ²
Material	P.V.C	P.V.C	P.V.C

	UK	BRA
		
Model Type	YP-61A	ZH-72B
Current/Voltage	13A/250V~	16A/250V~
Wire	H05VV-F 3G 2.5mm ²	H07RN-F 3G 2.5mm ²
Material	P.V.C	P.V.C

Portable EV Charger









2.4. Product Packing List




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

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2.5. Product Functions

 Leakage Protection	 Over Current Protection	 Ground Protection	 Over Voltage Protection
 Relay Adhesion Protection	 Over Temperature Protection	 CP Signal Abnormal Protection	 Under Voltage Protection
 Lightning Protection	 Fire Protection	 Anti-pressure Protection	










With full protection to avoid all kinds of charging safety hazards, it will automatic power off after the vehicle is fully charged, to protect the car battery and prolong the working life.

2.6. Product Features








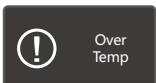


- Build-in with Over Current Protection, Over Voltage Protection, Under Voltage Protection, Over Temperature Protection, Relay Adhesion Protection, Ground Protection, CP Signal Abnormal Protection, Fire Protection, Anti-pressure Protection and Type B Leakage Protection.
- It can be charged by appointment, 0-24 hours.
- Adjustable Charging Current for Easy Charging.
- Automatically recharge after power failure recovery.
- 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. Operating Status






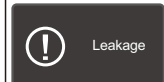




3.1. LED Light Description

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	Charging normally		
	All lights on green	Charging completed		


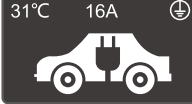
Portable EV Charger

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

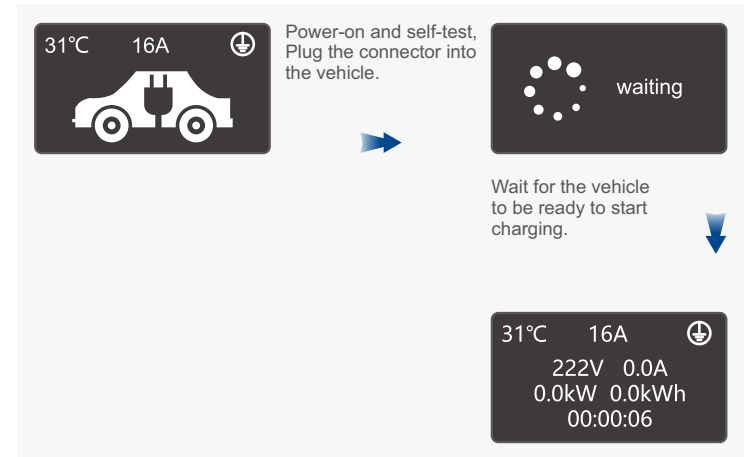
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Fault Status				
LED Lights Status	OLED Screen Status	EV Charger Status	Potential Cause	Action
		Over Voltage Protection	Short circuit of home lines or unstable of grid power	Check the home lines... Wait for grid power to recover
		Under Voltage Protection	Insufficient grid voltage	Wait for grid power 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	

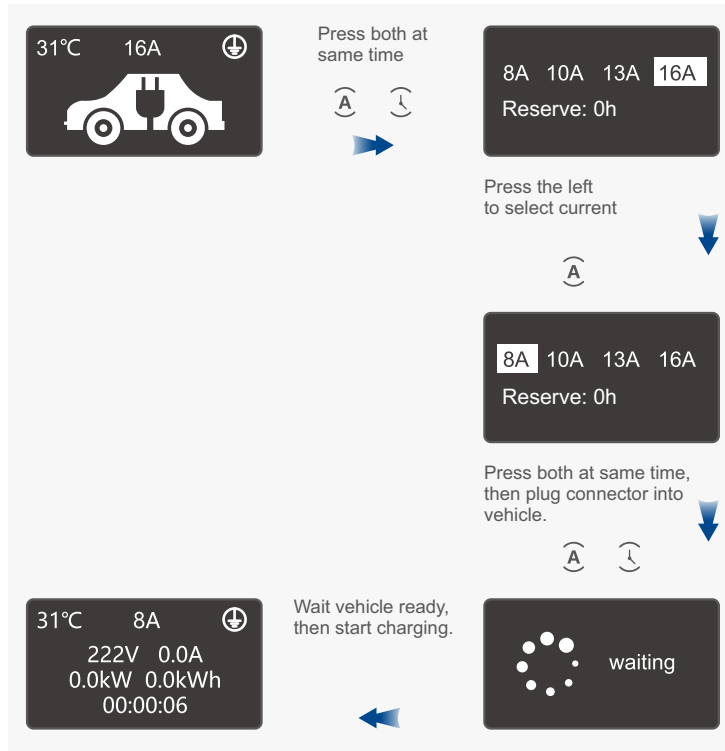
3.2. OLED Screen Description

Picture	Status	Press Left Key	Press Right Key	Press Left and Right Together
 Press both to ignore	Poor grounding			Ignore poor grounding and start charging
 31°C 16A	Wait for Plug			Enter interface of setting
8A 10A 13A 16A Reserve: 0h	Setting	Set max charging current	Set timer charging	Save Settings
31°C 16A 222V 0.0A 0.0kW 0.0kWh 00:00:06	Charging			Enter interface for emergency stop charging
Stop Cancel (7)	Emergency stop charging	Stop	Cancel	

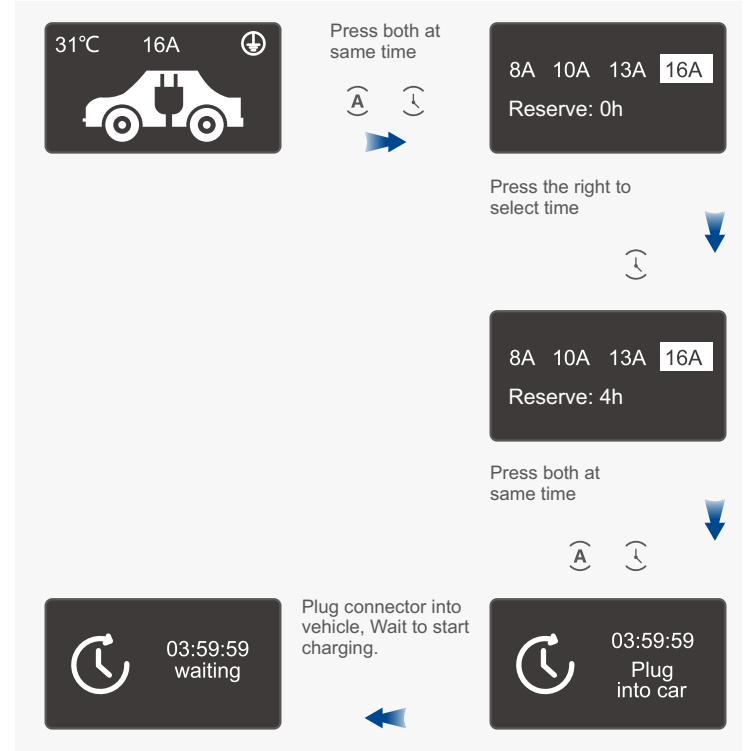
4. How to Plug and Play



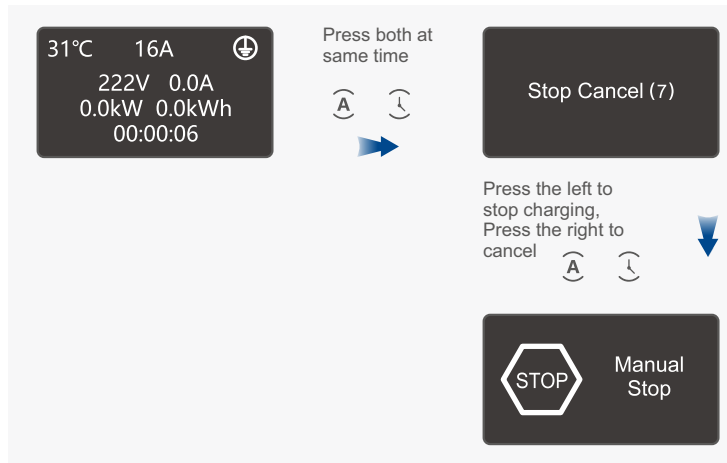
5. How to set charging current



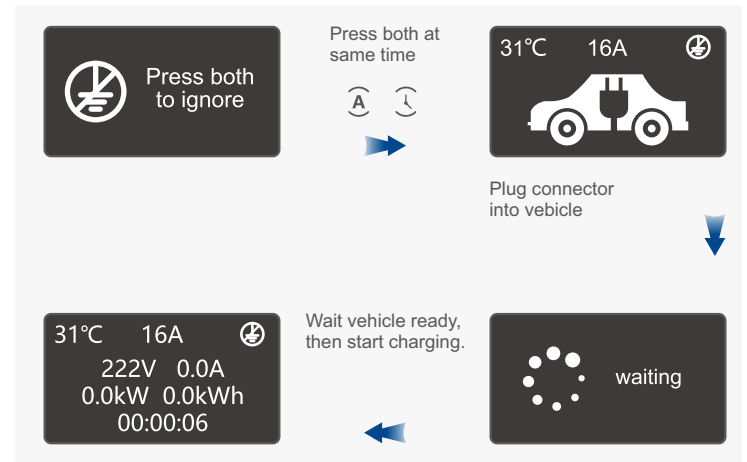
6. How to set a timed charging



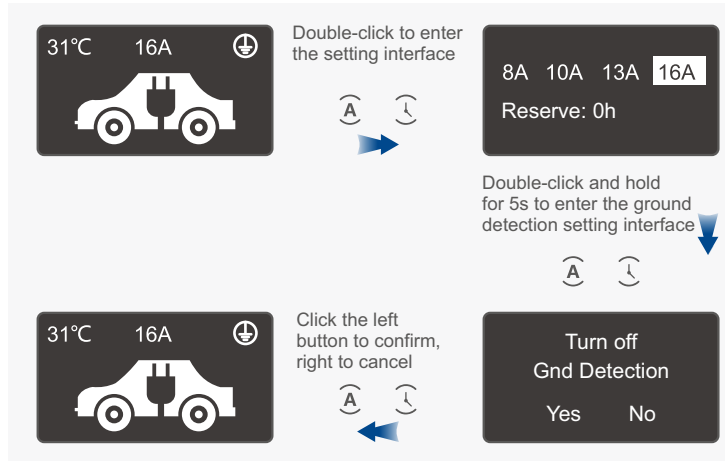
7. How to emergency stop charging



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



9. Permanently turn off the ground detection setting



10. Warranty Description

- Free warranty is available for any damages or failures due to the chargers' quality problems since 1 year from the date of producing at the factory.
- 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.