

PORTABLEEVCHARGER USERMANUAL

(Version : 1.0)

CONTENTS

1. Safety Tips.....2
2. Important Information.....4
2.1 Specified use.....4
2.2 About this Manual.....4
3. Use of Products.....5
3.1 Product Appearance Size.....5
3.2 Product Appearance Introduction.....5
3.3 Product Performance Description.....6
3.4 LED Indicator Instruction.....7
3.5 Equipment Parts List.....7
4. Operation Guide.....8
4.1 Operation Steps.....8
5. Wallbox Installation Method.....9
5.1 Wallbox Rendering.....9
5.2 Fixing Cover Installation Drawing.....9
5.3 Gun Holder Installation Drawing.....10
5.4 Installation Environment Requirements.....10
5.5 Power Supply Requirements.....11
6. Troubleshooting.....12
Troubleshooting Table.....13
7. Maintenance.....13
7.1 Maintenance.....13
7.2 Important matters.....13

WARNING

a. Please confirm the power level you are ready to connect before installation;
b. The whole installation process needs professional personnel with electrician qualification to operate;
c. Please do not operate under any circumstances that may cause electric leakage;
d. When using the charging pile to charge the electric vehicle, please carefully read the instructions of the charging pile. Pay attention to the operation steps, practices or incorrect execution may lead to life danger, injury and equipment damage. Refuse to accept any claim arising therefrom. The operation can only be carried out when the contents of the instruction manual of the charging pile are fully understood and the specified conditions are met.

NOTICE

a. The charging pile must be grounded through the grounding conductor of the permanent wiring system or equipment;
b. Please avoid installing in the direct sunlight or exposure environment, and try to use the charging pile in a cool and ventilated place;
c. Do not install and use the charging pile near flammable, explosive, combustible and chemical substances or steam;
d. Before installing or cleaning the Charge Point, the power supply must be cut off to ensure that there is no power input. Do not touch the heat source, dirt or water source on the contact surface;
e. Please use the charging post within the specified working parameters;
f. Only connect electric vehicles. Do not connect other loads (electric tools, etc.). Do not use the charging post for other purposes than charging or other vehicles that do not support the AC charging standard of the country where the product is located;
g. The charging pile must be checked regularly. If it is found to be defective, cracked, worn, damaged or otherwise damaged and inoperable, the charging pile shall be stopped immediately and the after-sales service telephone shall be called;
h. Do not attempt to open, disassemble, modify or transform the charging pile without a professional electrician. The charging pile is not a device that can be maintained by users. Do not remove safety symbols, warning prompts, nameplates, signs or pipeline marks;
i. If you or your car are exposed to rainstorm, lightning, heavy snow or other severe weather conditions, do not use the charging pile to prevent any parts from being damaged;
j. Please handle with care when transporting the charging post. Do not subject it to strong external force impact, and do not drag, twist or step on the charging pile and cable to prevent damage to any parts. At any time, please avoid and prevent the charging post from being damaged by moisture, liquid and other foreign matters. If there is water, damage or corrosion, please do not use it. Do not touch or charge the cable and charging gun head with wires, tools or other sharp hard objects;
k. If your vehicle is covered with car cover, car coat, please uncover and then use the charger to charge.
l. User of the charger may affect or impair the function of any medical or implantable electronic device, such as cardiac defibrillators, pacemakers, etc.

FCC STATEMENTS

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and;
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING

Changes or modifications to this unit not expressly approved by the part responsible for compliance could void the user' s authority to operate the equipment.

RF EXPOSURE

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled rolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

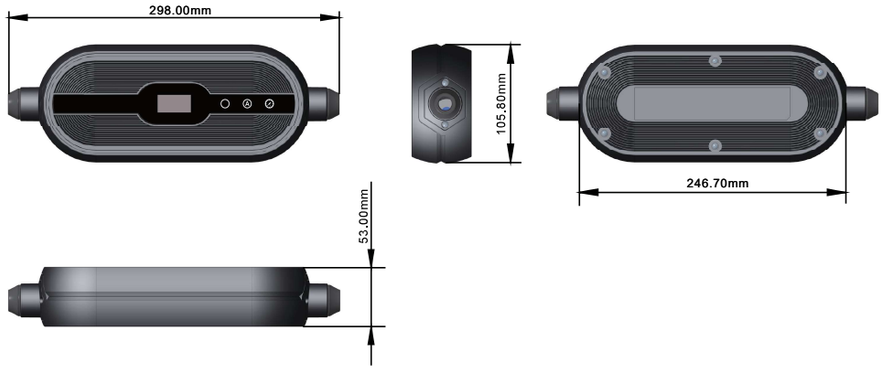
2.1 Specified use

● This type of product is a charging pile that can charge electric vehicles in indoor and outdoor areas (such as electric vehicles).
● When installing and connecting the charging pile, the relevant regulations of the local country or government shall be observed;
● The specified use of the equipment includes complying with the environmental conditions established for the equipment under any circumstances;
★ During the storage or use of the equipment, it is necessary to store the charging pile and its supporting components in a dry and ventilated indoor place with a temperature of -30 °C~+50 °C and a daily average temperature of ⩽ 35 °C within 24 hours;
★ Monthly average relative humidity ⩽ 90% (25 °C), no condensation on the surface;
★ After the installation, the shell of the charging pile shall be kept sealed to avoid soaking in rain;
★ The use site shall be free of explosive media, the surrounding media shall not contain harmful gases and conductive media that corrode metals and damage insulation, and shall not be filled with steam or serious mold;
★ The place of use should avoid direct sunlight. When installing outdoors, it is recommended to install sunshade facilities for the charging pile;
When the charging pile is not in use, the charging gun shall be placed 0.5 m~1.5 m away from the ground;
● Equipment shall be developed, produced, inspected and filed according to relevant safety standards. Therefore, if the instructions and safety technical tips for the specified use are followed, the product will not cause property loss or endanger the health of personnel under normal conditions;
● The instructions contained in this manual must be strictly followed, otherwise potential safety hazards may occur or the safety devices may fail. Although this manual describes the relevant safety tips, it is still necessary to pay attention to the safety regulations and accident prevention regulations in accordance with the corresponding application;
● Due to technical or legal restrictions, it is impossible to supply all models/options to the region;
● If users have special requirements, they can negotiate with us.

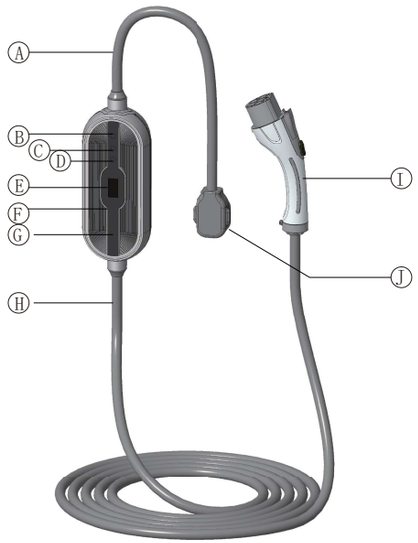
2. 2 About this Manual

● This manual is applicable to the following groups:
★ The end customer (charge pile user).
★ The technical staff of debugging and service
● The final explanation of this manual belongs to the company.

3.1 Product Appearance Size



3.2 Product Appearance Introduction



[A] Input Wire
[B] Time Button
[C] Current Button
[D] Indicator
[E] Display Screen
[F] Lens
[G] LOGO
[H] Output Wire
[I] Charging Gun
[J] Plug

3.3 Product Performance Description

Product Characteristics	Product Item	ZA05-X007KCC-X001
	Product Power	7kW
	Operating Current	32 A (Max)
	Current Position	16A-20A-24A-32A
	Installation Method	Portable/Wallbox
	Operating Voltage	240 Vac
	Operating Frequency	50/60Hz
	Cable Length	7m
	Indicator	3-Color Indicator
	User Interface	1.3inches OLED Screen
	Charging Method	Plug and Charge/ APP Charging(TuYa APP)
	Communication Method	WiFi&Bluetooth (Optional)
	Appearance Size	298 mm X 105 . 8 mm X 53 mm
	Product Weight	＜2 . 7 kg
Protection Characteristics	Over Voltage Protection	Input Voltage＞20 %, relay is off
	Under Voltage Protection	Input Voltage＜20 %, relay is off
	Over Load Protection	Output Current＞110 %, relay disconnected, the power supply needed to be cut off and restored
	Over Temperature Protection	When the temperature of the main board reached 85 ℃ , the power was reduced to 50%, and it was turned off after 90℃
	Ground Protection	The earth wire or the charging earth wire was not broken, and the relay was broken
	Leakage Protection	Type：AC 30 m A, leakage, the relay was off
Environment Characteristics	Operating Temperature	-30℃ ~ +50℃
	Operating Humidity	5 % ~ 95 % RH
	Operating Altitude	＜2000 m
	Protection Degree	IP 54
Reliability	MTBF	100 , 000H
	Warranty	2Years
	Safety Standard	GB/ T 20234, GB/ T 18487, GB/ T 27930 NB/ T 33008, NB/ T 33002, UL 2231, IEC/ EN 61851 - 1, IEC/ EN 61851 - 22

3.4 LED Indicator Instruction

No.	Charge pile status	Indicator Color	Indicator Status
1	Standby	Yellow	Always on
2	Insert the Plug	Green	Always on
3	Charging	Green	Flashing
4	C P Abnormal	Red	Always on
5	Over voltage/Under voltage	Red	Flashes once every 1S
6	Un Earthed	Red	Flashes once every 2S
7	Over-current Protection	Red	Flashes once every 4S
8	Leakage Protection	Orange	Flashes once every 1S
9	Over-temperature Protection	Orange	Flashes once every 2S

3.5 Equipment Parts List

No.	Equipment Parts	Quantity
1	AC Charging Pile	1
2	Fixing Cover	1
3	Gun Holder	1
4	Screw	7
5	Expandable Rubber Stopper	7
6	Certification	1
7	User Manual	1

4.1 Operation Steps

❶ Plug the charger into the socket



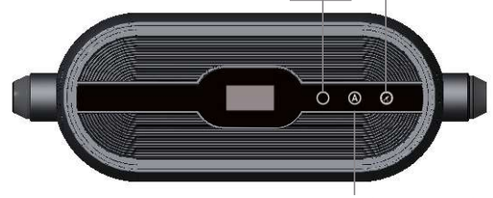
Specification of Switch Socket

Power	Current	Switch/Socket
3.5kW	16A(Max)	20A(2P not covered)/16A Socket
7kW	32A(Max)	40A(3P not covers)

❷ Adjust charging parameter

Adjust charging time according to personal time.

Adjust the charging current according to the power supply current of the socket



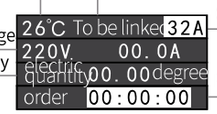
Unconnected
Connected
Charging
Finished

Operating Status

Operating Temperature

Operating Voltage

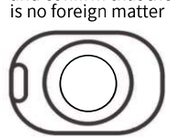
Power Quantity



(16 A、20 A、24 A、32 A)

Reservation charging time1~12

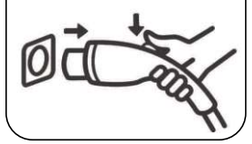
❸ Open the charging seat and confirm that there is no foreign matter



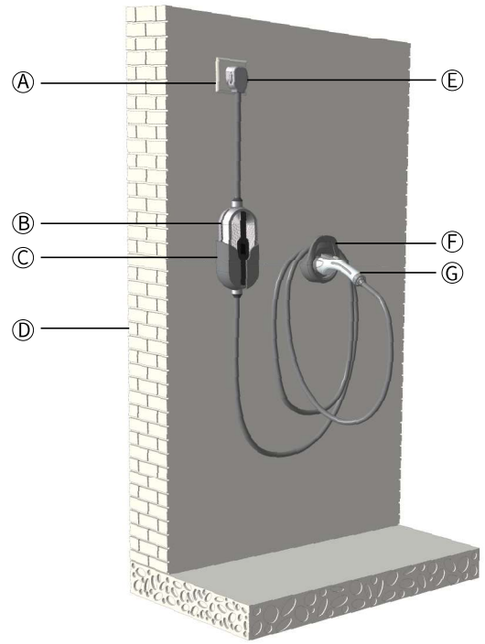
❹ Hold the charging gun and connect the electric vehicle



❺ After charging, remove the charging gun

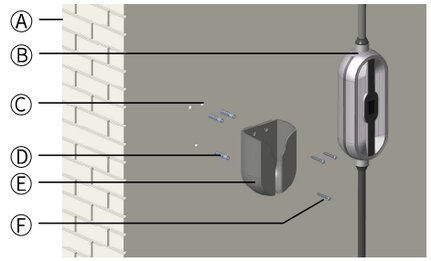


5.1 Wallbox Rendering



[A] Socket
[B] Charging Pile
[C] Fixing Cover
[D] Wall
[E] Plug
[F] Gun Holder
[G] Charging Gun

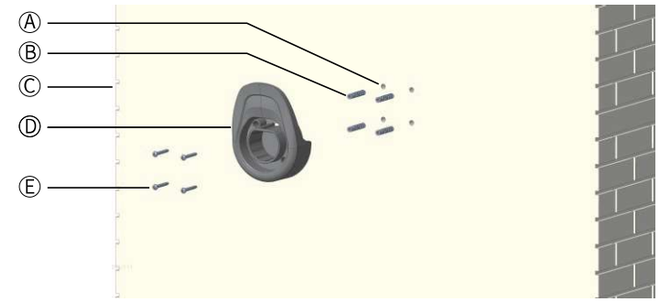
5.2 Fixing Cover Installation Drawing



[A] Wall
[B] Charging Pile
[C] ϕ7 Wall Hole
[D] ϕ8 Expandable Rubber Stopper
[E] Fixing Cover
[F] ϕ5 Self-tapping screw

● As shown in the above figure, place the fixing cover on the wall at a proper height, mark the hole location on the wall with a pencil, and use an impact drill to drill three ϕ7 holes on the wall according to the hole marking, and drill three ϕ8 expansion rubber plugs in the three holes. Finally, place the wall hanging shell on the wall, align the fixing holes of the fixing cover with the wall holes, and fasten them with ϕ5 tapping screws.

5.3 Gun Holder Installation Drawing



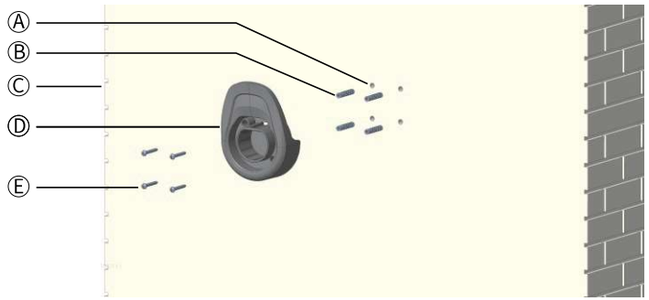
[A] ϕ7 Wall Holes
[B] ϕ8 Expandable Rubber Stopper
[C] Wall
[D] Gun Holder
[E] ϕ5 Self-tapping screw

● As shown in the above figure, place the gun holder on the wall at a proper height, mark the hole location on the wall with a pencil, and use an impact drill to drill four ϕ7 holes on the wall according to the hole marking, and drill four ϕ8 expansion rubber plugs in the four holes. Finally, place the gun holder on the wall, align the fixing holes of the gun holder with the wall holes, and fasten them with ϕ5 tapping screws.

5.4 Installation Environment Requirements

● The installation position of the charging pile shall not be close to dangerous locations or areas such as water, oil and gas pipelines.
● The installation position shall be convenient for charging, the wiring length shall be shortened to reduce the energy consumption of cable resistance when laying lines.
● The wall hanging parts and fixed walls shall be fixed with screws. The installation wall shall be able to bear the gravity of the charging pile and its accessories, and shall not tilt after installation. The wall should not be too close to the internal line.
● The protection degree for indoor installation shall be at least IP 32, and that for outdoor installation shall be at least IP 54. It is recommended that the charging pile be installed in an environment with sunshade or umbrella; The lighting and passage at the installation site of the charging pile must be safe and smooth.
● A certain operating space shall be reserved for the installation of charging pile to facilitate the overhaul and maintenance of engineering personnel.
● It is recommended that the customer install a circuit breaker at the front end of the charging pile. The mini circuit breaker should meet local regulations.

5.5 Power Supply Requirements



The power supply mode of the portable AC charging pile is AC single-phase power supply, and the input electrical requirements are:

● AC Operating Voltage: Refer to page 5;

● AC Operating Frequency: Refer to page 5;

● The capacity of the power supply system shall be greater than the maximum operating power of the product;

● For the specification of power socket, please refer to Specification and Configuration Table of Switch Socket on page 07.

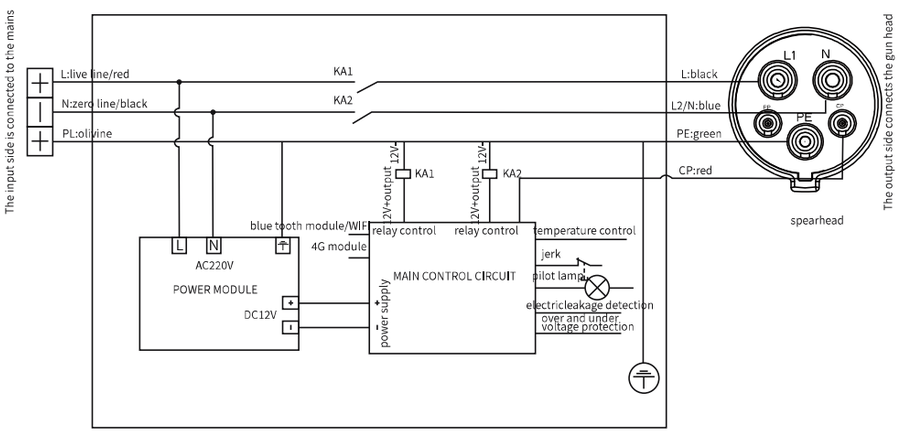
Troubleshooting Table

Fault	Reasons&Solutions
Power LED is not lit	● No power supply ☆ Damaged, please contact your service partner0.
Unable to start charging	● The charging gun is not inserted correctly ☆ Re plug the charging gun and confirm the connection is OK. ● The charging gun may be dirty or damaged in the locked area. ☆ Clean or replace the charging gun.
Power is not fully charged or charging time is increased	● Current drop due to high temperature of vehicle or charging pile ☆ Visually check whether the plug device is dirty, worn or damaged. ☆ If necessary, please contact your service partner. ● Lack of power release due to external devices (power supply equipment, etc.).
The fault status LED lights up red	● Fault ☆ First check the possible fault causes (*). ☆ Cut off the power voltage of the charging pile, pull out the charging gun, and connect the power voltage again. ● Damage ☆ please contact your service partner.

(*) Possible fault causes (fault status LED lights up):
In principle, the fault must be cleared by pulling out the charging gun. The following reasons may lead to failure: Un earthed, electric leakage, pile ID not set. Please contact your service partner to maintain the equipment.

7.1 Maintenance

● The following routine maintenance items are only for reference, please refer to relevant standards and operation instructions for operation;
● Sunshade and rainproof measures shall be taken for the charging pile, and it is recommended to install a canopy outdoors;
● Regularly check whether the bolts of the charging pile are fastened, whether the connecting wire is loose, and whether the connection is not firm, and check whether there is short circuit;
● Pay attention to lightning protection and ensure effective shielding and reliable grounding of the charging pile;
● When using, try to control the output voltage and current of the charging pile within the nominal range, so as to ensure that the charging pile can work with the maximum efficiency;
● When the charging pile is out of service, the charging output shall be stopped first, then the power plug shall be pulled out and the power shall be cut off, then the cable shall be wound, and the charging pile shall be put back to its original position after the temperature of the charging pile drops to normal temperature;
● The electrical schematic diagram of the charging pile is shown in the figure below.



7.2 Important matters

● To ensure that you can enjoy the warranty service, please ensure that the tear-proof label on your charging pile is intact;
● The warranty period of your charging pile shall be subject to the transportation and delivery period. If it cannot be provided, it shall be subject to the ex factory date of the equipment;
● Please show the original of the unit and invoice during warranty.