



Single-phase AC Electric Vehicle Wall box

user 's manual

CATALOGUE

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1. Important information

1.1 About this manual

This manual describes and explains the AC charging pile of our electric vehicle. Please read and understand it carefully after unpacking, and keep this manual properly for reference.

The company reserves the right to modify the manual without further notice.

1.2 Matters needing attention

Precautions for use

The personnel installing and using the equipment must abide by the following principles and regulations to ensure the personal and equipment safety of relevant personnel.

Charging pile safety

- A. Before opening the equipment, please make sure that the equipment is well grounded to avoid casualties caused by electric shock;
- B. The unnecessarily exposed metal parts of all tools used shall be insulated to prevent the exposed metal parts from touching the metal frame and causing short circuit;
- C. Do not refit, add or change any parts under any circumstances;
- D. Ensure the service life and stable operation of the equipment. The service environment of the equipment shall be kept clean, constant temperature and humidity as much as possible. The equipment shall not be used in volatile gas or flammable environment;
- E. Before the equipment is powered on, make sure that the input voltage, frequency, circuit breaker or fuse of the device and other conditions meet the specified specifications;
- F. In case of emergency during charging, please press the emergency stop button;
- G. When the charging pile catches fire, turn off the main power supply immediately. When the fire is under control, put out the fire with a carbon dioxide fire extinguisher. When the fire is uncontrollable, evacuate personnel immediately;
- H. Do not touch the electric gun hole and the socket of the vehicle socket with your hand.
- I. Extension cable and adaptor are not allowed to be used .
- J. 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.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.

1.3 Packaging and transportation

Packing

The package shall be in a fully enclosed box that is moisture-proof, dust-proof and free from mechanical damage.

Transport

The product shall be free from violent vibration, impact and inversion during transportation.

2、Product introduction

2.1 Design basis

| | |
|---------------------|---|
| IEC 61851-1:2017 | Electric vehicle conductive charging system - Part 1: General requirements |
| IEC 61851-21-1:2017 | Electric vehicle conductive charging system - Part 21-1 Electric vehicle on-board charger EMC requirements for conductive connection to AC/DC supply |
| IEC 61851-21-2:2018 | Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems |
| IEC 62196-1:2014 | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements |
| IEC 62196-2:2016 | Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories |
| IEC 61000-4-2:2008 | Testing and measurement techniques-Electrostatic discharge immunity test |

| | |
|-------------|---|
| IEC 61000-3 | Electromagnetic compatibility (EMC) - Part 3: Limit - ALL PARTS |
|-------------|---|

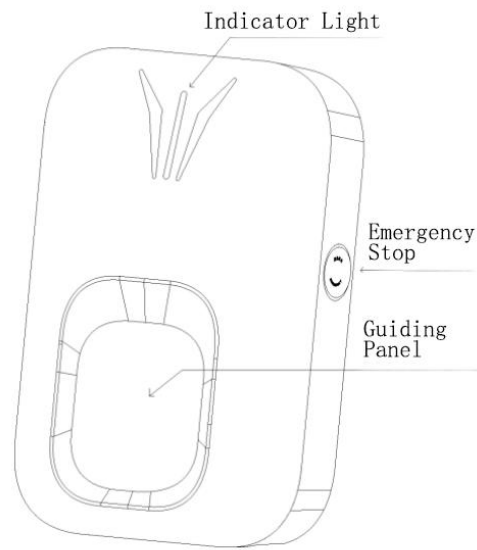
2.2 Product technical characteristics

| Product parameters | Specifications |
|----------------------|--|
| Model | CSG-BCG-AS32-K01-1-CE |
| Power | 7kW |
| Phases/lines | L1、N、PE |
| AC input voltage | 230V |
| AC input frequency | 50/60Hz |
| Output voltage | 230V |
| Output current | 32A |
| Protection design | Over-voltage protection, under-voltage protection, overload protection, short circuit protection, grounding protection, over temperature protection, surge protection, input PE line disconnection alarm |
| Degree of protection | IP54 |
| Working temperature | -30℃~+55℃ |
| Relative humidity | 5%~95% |
| Altitude | ≤2000m |
| Body size | Length * width * height: 385mm * 265mm * 130mm |
| Weight | < 10kg |
| Installation | Wall-mount/Floor-stand |

RF module specifications

| | |
|-------------------|------------------------------|
| Board name | Card swiping board/NFC board |
| Plate size | 55mm*37mm*8mm |
| Support agreement | ISO 14443A、ISO 14443B |
| Interface type | SPI |
| Working frequency | 13.56MHz |
| Working voltage | 2V~5.5V |
| Reading distance | 3-5cm |

2.3 Outline introduction

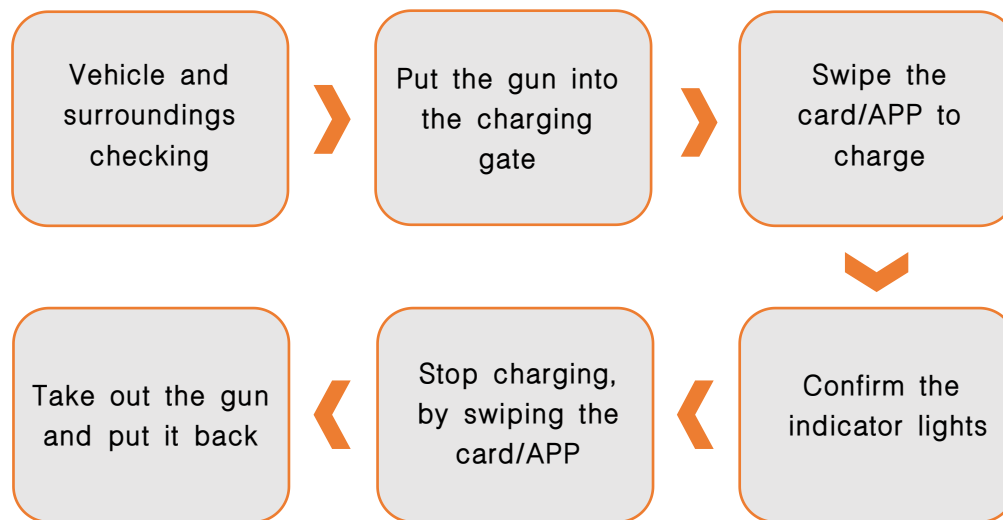


3. Instructions for use

3.1 Indicator status description

| Color | Status |
|------------------|------------------------|
| Blue always on | Standby |
| Blue breathing | Gun inserted |
| Green breathing | Charging |
| Green always on | Charging finished |
| Yellow always on | Please draw the gun |
| Red always on | Emergency stop pressed |
| Red blink | Fault |

3.2 Charging operation process



3.3 Routine maintenance

After long-term use, the charging pile shall be maintained in time. Good maintenance habits will prolong the service life of the charging pile. Before carrying out maintenance work, please disconnect the power supply to prevent danger.

- A. Charging pile: check whether the fuselage is damaged, cracked or tilted, whether the fuselage and wiring pipes or other accessories are installed firmly, and check whether there is falling off and shaking.
- B. Charging gun: when not in use, try to avoid the gun head directly exposed to the outside, and plug it back into the socket to prevent damage. Check the charging cable or charging gun head. If there are problems such as damaged shell and exposed cable, please do not continue to use; When pulling out the gun, pay attention to the buckle position of the gun handle to avoid rough dragging; Keep the gun head dry and no inner water is allowed.
- C. Indicator light: whether it can indicate normally.
- D. Emergency stop switch: check for damage.
- E. Background connection (optional function): whether the networked pile is connected to the server.
- F. Charging function: whether there is abnormal charging.

4. Installation instructions

4.1 Installation Preparation

The tools and materials required for installation (subject to actual use) are as follows:

- A. Tools: impact drill, wrench, hammer, cross screwdriver, wire stripping pliers, wire pressing pliers and level ruler;
- B. Material: 3*6mm²(7KW) and above single-phase power cable, the length shall be subject to the specific construction length, expansion bolt and PVC pipe;
- C. Auxiliary materials: line pipe clamp and marking pen.

4.2 Installation precautions

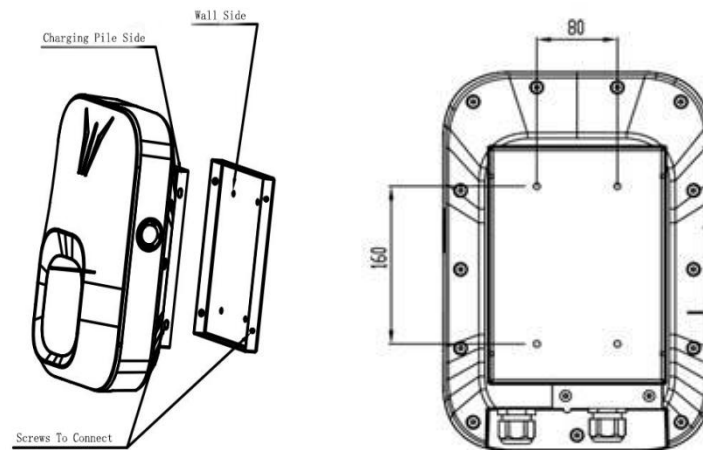
Please connect correctly in strict accordance with the wiring requirements;

Please confirm that all fasteners have been locked to ensure the firmness of the charging pile.

4.3 Installation environment and location

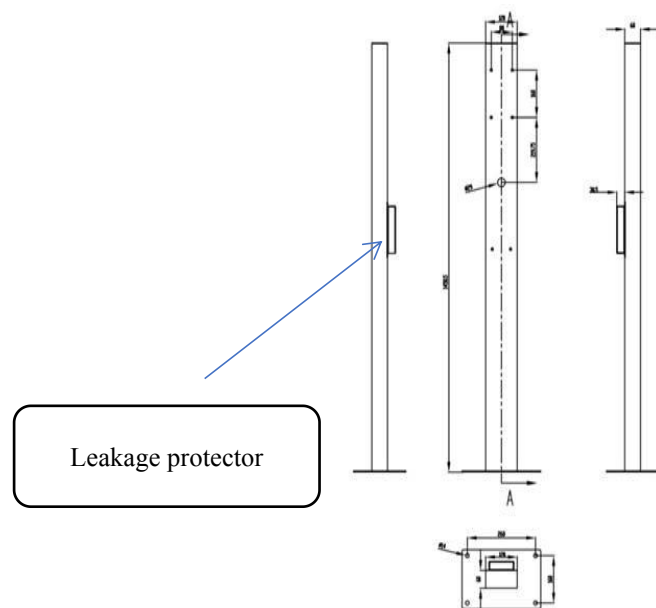
- A. The area where the charging pile is placed must be well ventilated and away from water, combustible gases and corrosive agents;
- B. Ensure that the ground or installation platform can bear the weight of the charging pile;
- C. If the machine is disassembled and used at low temperature, water droplets may condense. It must be installed and used after the inside and outside of the machine are completely dry, otherwise there is a risk of electric shock;
- D. Please place the charging pile near the mains power input to disconnect the mains power input switch and cut off the power supply in case of emergency.

4.4 Wall mounted installation method



1. The wall mounted backplane is removed from the charging pile body (Note: the wall mounted backplane and the charging pile body are installed together during delivery).
2. According to the fixed hole position on the wall mounted backplane (Note: the long side (including the installation hole) of the wall mounted backplane belongs to the vertical position and the short side belongs to the horizontal position), use a level ruler to observe and adjust the charging pile body to maintain the horizontal position, and mark the position of the installation hole with a marker pen.
3. Punch holes at the marked positions on the wall with an impact drill 12mm bit.
4. After drilling, align the wall hanging back plate with the hole on the wall (pay attention to the difference between the long side and the short side of the wall hanging back plate), drive 10mm expansion bolts with a hammer, and then fasten the bolts with a wrench. There are 4 in total. Fix the wall hanging backplane to the wall, paying attention to the horizontal and vertical.
5. On the back of the charging pile body, unscrew the power wiring slot with a screwdriver, insert the cable, and connect the LIVE wire (L) / NEUTRAL wire (n) / GROUND according to the indication. Note that the wiring must be firm and the wire sequence must be correct. Install and restore the wiring card slot.
6. The charging pile body is integrally installed on the wall mounted backplane, and the installation screws are tightened on the left and right sides with a cross screwdriver to fix the body;
7. Connect the other end of the power wiring of the charging pile to the equipped leakage protector (if not, it needs to be installed separately), and then connect to the AC power grid;
8. After checking that the wiring is normal, connect the AC power supply and start the charging pile.

4.5 Floor mounted installation method:



1. Confirm the installation position, adjust the position of the main column, keep the upright and horizontal column, and mark the position of the installation holes.
2. Drill holes in the ground with an impact drill 12mm bit.
3. After drilling, fix the charging pile column on the base, align the hole position, drive M12 * 80 expansion bolts with a hammer, a total of 4, and then fasten the bolts with a wrench.
4. The wall mounted backplane is removed from the charging pile body (Note: the wall mounted backplane and the charging pile body are installed together during delivery).
5. Align the wall hanging back plate with the screw hole on the column (pay attention to the difference between the long side and the short side of the wall hanging back plate), insert the screws, and then fasten the screws with a screwdriver. There are 4 in total. Fix the wall hanging backplane on the column, paying attention to the horizontal and vertical.
6. On the back of the charging pile body, unscrew the power wiring slot with a screwdriver, insert the cable, and connect the LIVE wire (L) / NEUTRAL wire (n) / GROUND according to the indication. Note that the wiring must be firm and the wire sequence must be correct. Install and restore the wiring card slot.
7. The charging pile body is integrally installed on the wall mounted backplane, and the installation screws are tightened on the left and right sides with a cross screwdriver to fix the body;
8. Connect the other end of the power wiring of the charging pile to the equipped

leakage protector (if not, it needs to be installed separately), and then connect to the AC power grid;

9、 After checking that the wiring is normal, connect the AC power supply and start the charging pile.

5. Customer service

5.1 Product warranty policy

In case of performance failure within 7 days after purchase, users can choose to exchange goods or repair free of charge within warranty; When applying for replacement, users need to provide purchase invoices,, original product packaging boxes and other random accessories.

When applying for free warranty service within the warranty period, users need to show a valid purchase invoice . The starting date of the warranty period is the purchase date indicated in the invoice. If you cannot show a valid purchase invoice, or the information recorded in the above warranty certificate is inconsistent with the product, or altered and illegible, The warranty period of the product shall be subject to the ex factory date recorded by the product. If you cannot get a valid ex factory date, you won' t be able to provide free warranty service.

The machines repaired by CSG Science &Technology Co., Ltd. Hefei will continue to enjoy the warranty service provided by the company within the original warranty period.

The faulty parts or machines replaced after maintenance belong to CSG Science &Technology Co., Ltd. Hefei. The product warranty does not cover the following situations:

- A. All man-made damage or transportation damage;
- B. Products disassembled and repaired by users and unauthorized service institutions;
- C. Products with appearance damage caused by unsealing and improper use;
- D. Failure or damage caused by use in the working environment not specified by the product, including exceeding the working load;
- E. Failure and damage caused by improper storage of users.

5.2 Contact information

Company name: CSG Science &Technology Co., Ltd. Hefei

Company address: No. 5111, Wang jiang West Road, Hefei, Anhui

Company website: <http://www.csg.com.cn/>

Corporate email: kdzncdz@csg.com.cn

After sales service hotline: 400-0551-270



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