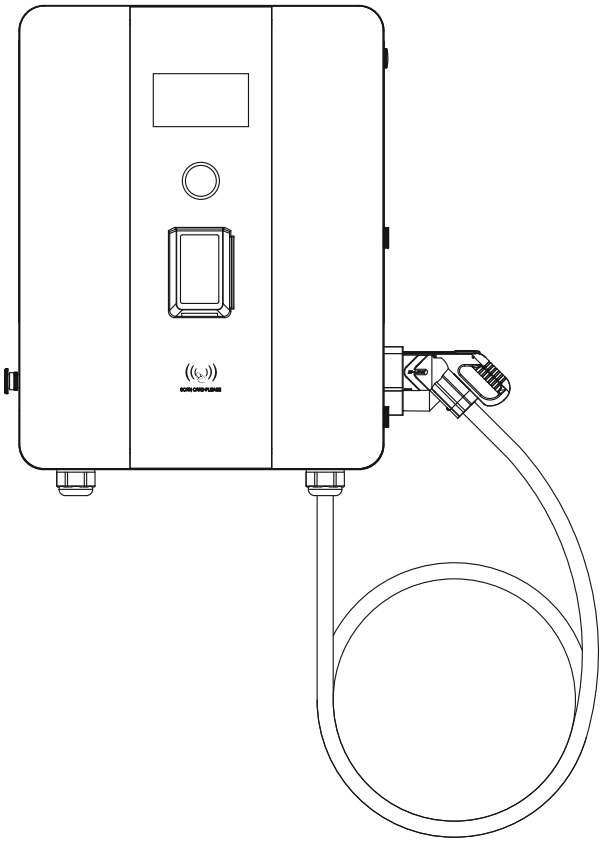
HBE-DC30KW01HW-U Charging Pile
Instruction Manual



Catalogue

IMPORTANT SAFETY INSTRUCTIONS

WARNING – When using electric products, basic precautions should always be followed, including the following

a) Read all the instructions before using this product.

b) This device should be supervised when used around children.

c) Do not put fingers into the electric vehicle connector.

d) Do not use this product if the flexible power cord or EV cable is frayed,has broken insulation, or any other signs of damage.

e) Do not use this product if the enclosure or the EV connector is broken,cracked, open,or shows any other indication of damage.

f) This charging pile cannot be dismantled, repaired or modified by the customer.

g) To reduce the risk of fire, connect only to a circuit provided branch circuit over-current protection in accordance with the CSA C22.1-15 Canadian Electrical Code,Part 1(Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico) or ANSI/ NFPA70 National Electrical Code (USA).

h) WARNING

GROUNDING INSTRUCTIONS

This product must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.

i) When any fault occurs, the product is prohibited to use, the user is prohibited to repair, must be sent to the after-sales maintenance or call the after-sales service for help.

j) Risk of electric shock.

SAVE THESE INSTRUCTIONS

CONCERNANT LA SÉCURITÉ CONSERVER CES

AVERTISSEMENT: Des mesures de précautions de base devraient être utilisées avec tous les produits électriques, y compris les mesures indiquées ici.

a)lisez toutes les instructions avant d'utiliser ce produit.

b) Ce dispositif devrait etre supervise lorsqu'il est utilisé autour des enfants.

c)Ne mettez pas les doigts dans le connecteur du vehicule electrique.

d) Nemployez pas ce produit si le cordon d'alimentation flexible ou le cable Ev esteffiloché, a N'isolation cassee, ou tout autre signe de dommages.

e). N'utilisez pas ce produit si le boitier ou le connecteur EV est casse, fissure,ouvert,oumontre toute autre indication de dommages.

f) Cettepile de charge ne peut etre démontee, reparee ou modifiee par le client.

g) Pour reduire le risque d'incendie , branchez uniquement un circuit pourvld'uneprotection contre les surintensites de circuit de branche conformement a la norre CSAC22.1-15 du Code canadien de 'electricite , partie 1 (Canada) ou a la norme NOM-001-SEDE Electrical installations (utility)(Mexique) ou a la norme ANSI/NFPA 70 du CodeNational de Pelectricite(Etats-Unis).

h) CONSINGES DE MISE ALA TERRE Ce produit doit etre raccordéa un reseaucablage mis a la terre, metallique et permanent, ou un conducteur de mise a la terre delappareil doit etre ajoute au circuit et raccorde a la borne de terre de 'appareil ou auconducteur d'alimentation de l'appareil.

i) Quand n'importe quel defaut se produit, le produit est interdit pour employer, I'utilisateurest interdit pour reparer, doit etre envoyé a lentretien apres-vente ou appeler le serviceapres-vente pour I'aide.

J) Risque de choc électrique

CONSERVER CES INSTRUCTIONS

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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.

MPE Requirements

To satisfy FCC / IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l’ antenne.
La FCC des éltats-unis stipule que cet appareil doit être en tout temps éloigné d’au moins 20 cm des personnes pendant son functionnement.

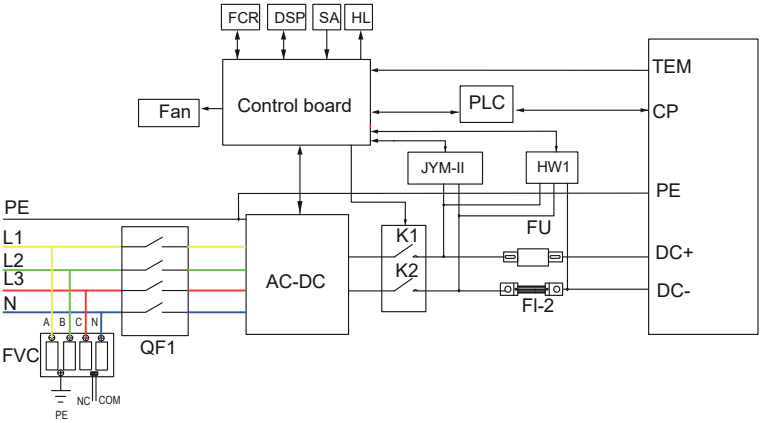
Certification Standards

- UL 2202: 2022 Ed.3 Clause
- CSA C22.2 #346:2022 Ed.1Clause
- UL 2231-2:2012 Ed.2+R:15Dec2020 Clause
- UL 50E: 2020 Ed.3 Clause
- UL 991:2004 Ed.3+R:09Jun2010: Clause
- UL 1998:2013 Ed.3+R:24Sep2018 Clause

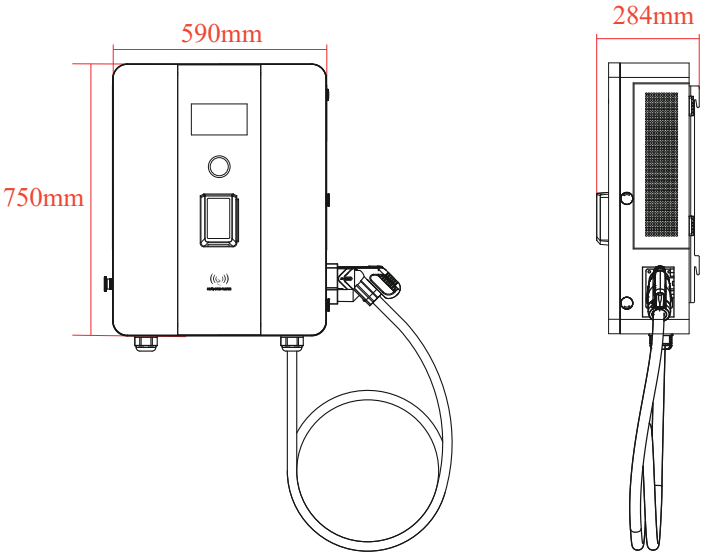
1. Equipment parameters

Specifications	Values
Maximum power of the product	30KW
Input Voltage	380-480VAC
Input Frequency	50/60Hz
Output voltage	200-1000VDC
Single Maximum Output Current	80A
Charge Mode	□Offline swipe card □Operation online scan code □Operation online swipe card □Plug and play □Credit card terminal □Password charge (Optional)
Communication Mode	□Ethernet □WIFI □4G □OCPP (Optional)
Operating Temperature	-30 ~ +50℃
Relative Humidity	≤95%
Protection Level	TYPE 3R
Anti-vandalism:	IK10, excludes LCD & RFID cover
Safety Design	Leakage protection, Over-voltage protection, Over current, Under-voltage protection, Emergency stop protection, Full stop charging protection, Short circuit protection, Over temperature protection
Installation Mode	Wall-mounted
Interfaces Count	One cable with 5 meters
Size	590 x 750 x 284 mm
Operating Environment	Outdoor & lndoor
Operating Occasion	Residential charging, Commercial charging
Altitude	≤6560 ft (2000m)
Safety	UL2202,UL2231,UL991
Software Assessment	UL 1998
Charging Interface	ISO15118
Certification	ETL
DC Charging Connector	CCS1
Cooling	Fan cooling

2. Schematic Diagram



3. Shape Model Diagram



4. Product Installation

4.1 Tools and Materials Required

Recommended Tools for Installation:

Type	Description
Stanley screwdriver	No. 2 and 3
Stanley brand adjustable wrench	Pieces 6.3MM metric machine set STMT82672-23
Socket screwdriver	No. 8, 10, 17 and 19
Electrical tape	Black / 15mm (0.6inch) Width
AC input cable	9AWG*5 -core cable (L1, L2,L3,N, PE)
Electric drill	One manual electric drill (Diameter φ12)
Breaker	4P 125A (Leakage switch)
Wire nipper	One
Needle nose pliers	One

4.2 Basic Requirements for Installation

4.2.1 Reserve not less than 1 meter space around for the charger.

4.2.2 Chargers must be installed on customized concrete.

4.2.3 The height of concrete should be 200MM above the horizontal ground and the vertical inclination should not exceed 5 degrees. Drill φ13 holes in the cement base according to the drawing spacing and install M10 expansion screws.

4.2.4 Place the body into the corresponding hole on the base and tighten the screws.

4.2.5 The charging pile and cement base should have reliable grounding connection, the grounding resistance must be less than 4Ω.

Attention： Rat control measures must be taken inside the pile body.

4.3 WALL mounted Installation Requirements

4.4 Input Device Requirements :

a. Cable: 9AWG*5 (L1, L2,L3,N, PE)

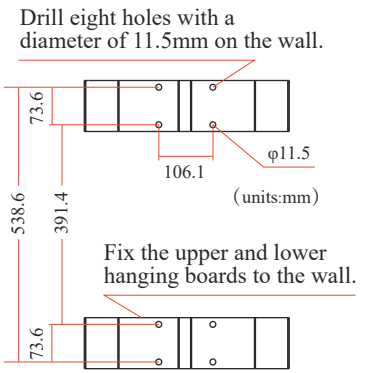
b. Power distribution: 125A/4p

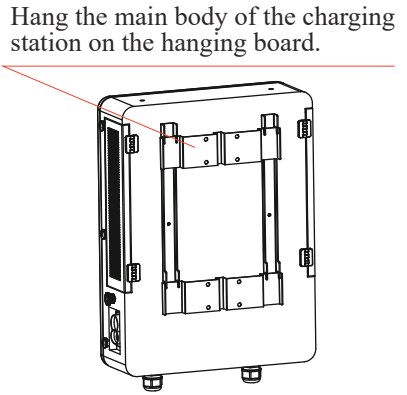
4.5 Device Commissioning:

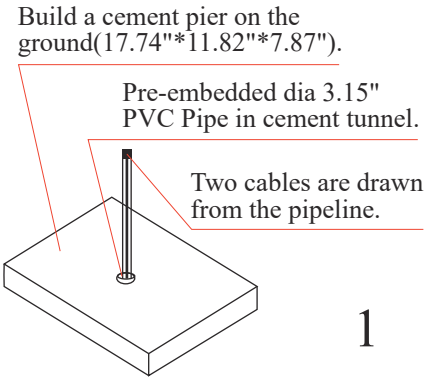
a. Check the device before power-on.

b. Check the power-on voltage of the device.

c. Pre-charge test.







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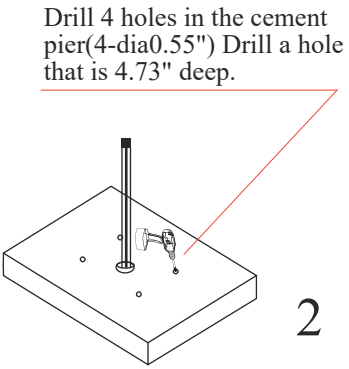
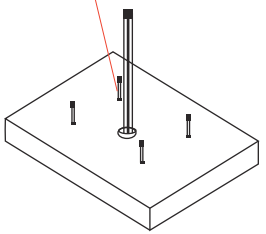


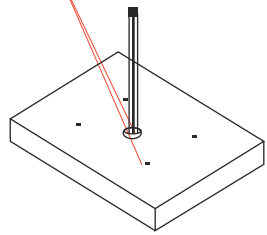
2

Drive the expansion screw into the cement pier.



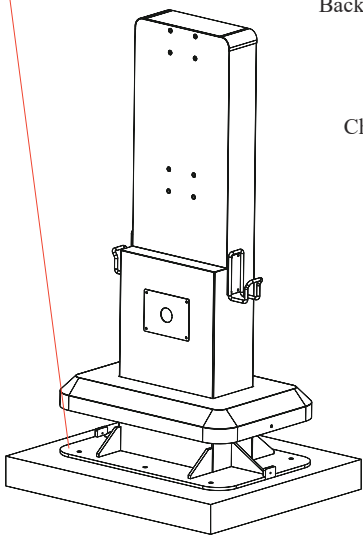
3

Align the screw holes of the pile with the ones in cement pier.



4

Upper hole plug for fixing the column to the ground



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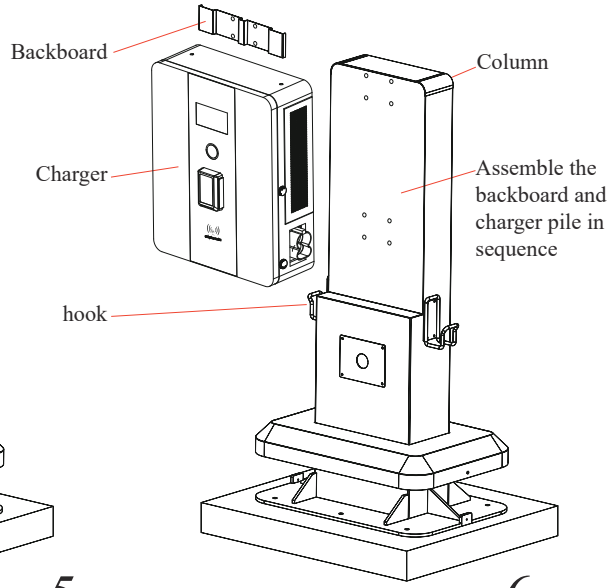

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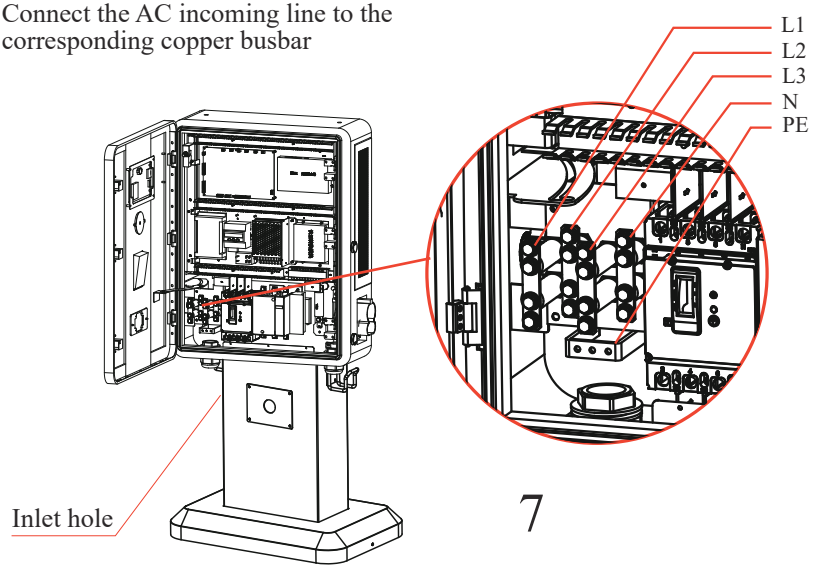
Connect the AC incoming line to the corresponding copper busbar



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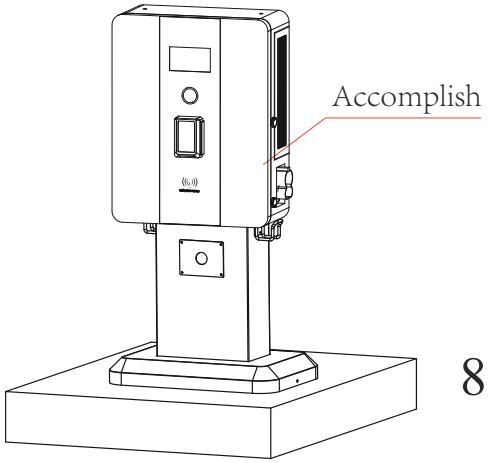

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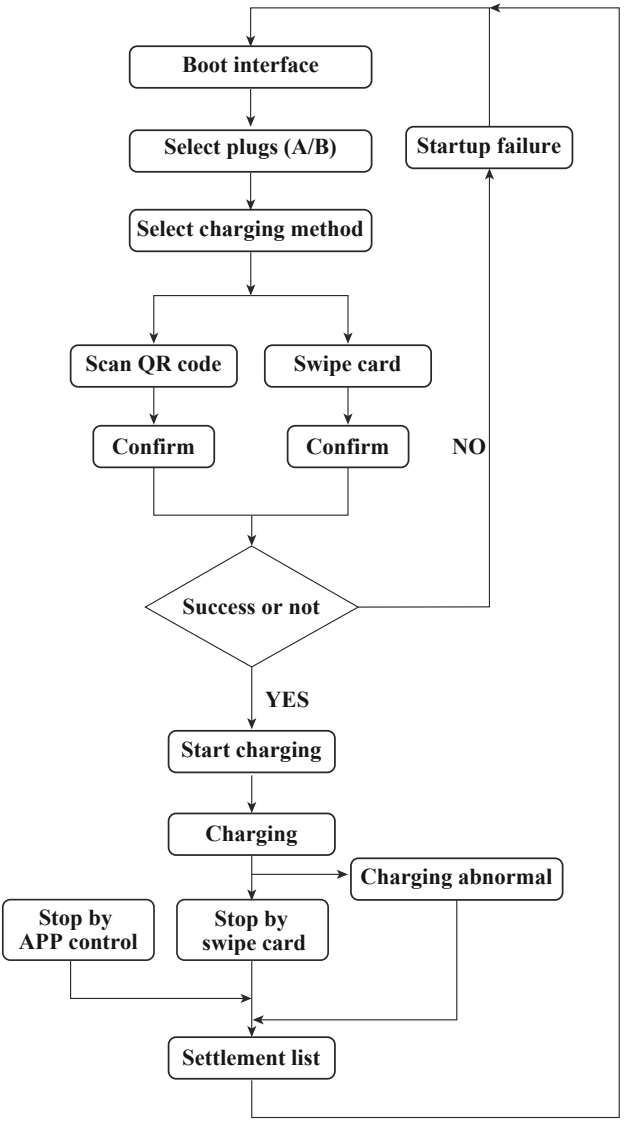
This device shall be mounted at a sufficient height from ground such that the height of the storage means for the coupling device is located between 450 mm (18 inches) and 1.2 m (4 feet) from ground for indoor use,between 600 mm (24 inches) and 1.2 m (4 feet) from ground for outdoor use.

5. Charging operation

5.1 Charging operation flowchart



5.2 Charging Mode Startup operation interface

This series of charger has three startup modes: VIN code, scanning QR code and swiping card (online card swiping/ offline card swiping) . Specific examples are as follows:

a. VIN Code Chagering.

1. Main interface.

2. Click VIN code to charge.

3. After successfully identification, enter the charging interface.

4. Stop charging and enter the settlement interface.

5. Enter the charging interface.

6. Thank you.

b. Charging by Scanning QR Code.

Scan the QR code on the pile directly with APP

1. Main interface.

2. Charging by Scanning QR Code.

3. Wait for the user to scan code and confirm to start by using APP.

4. Scan the code and enter the charging interface.

5. Stop charging and enter the settlement interface.

6. Enter the charging interface.

7. Thank you.

C. Charging by Swiping Card(Online/ Offline Card Swiping)

1. Main interface.

2. Charging by Scanning Card.

3. Select swipe RFID Card, then put the card to swipe.

4. Enter the charging interface.

5. Swipe the card again to stop charging and enter the settlement interface.

6. Enter the charging interface.

7. Thank you.

5.3 Process for Setting Parameters

1. Click on the top right corner for language selection, and click continuously on the bottom left corner 5 times to enter the settings page.

2. Here comes parameter setting page.

3.Enter a 4-digit password ****.

4. Choose communication settings, charging mode selection.

6. Operation procedures and the use of emergency stop switch

6.1 Operating procedures

1. Open the hatch cover and charging socket protective cover on the vehicle after parking it in the charging station space.
2. Connect the car socket and the charging station plug.
3. Choose the appropriate mode (swipe card/ scan QR code), Save and then begin charging in accordance with the instructions above.
4. The combined instrument will display the pertinent parameters as soon as the charging indication turns on.
5. When the vehicle is fully charged, press and hold the unlock button to pull out the plug , insert it into the holder of the pillar.
6. Close the hatch cover and protective cover of the socket, end charging.

6.2 Use of emergency stop switch

1. In case of fire or electric shock, press the emergency stop switch immediately;
2. If the machine leaks electricity, please press the emergency stop switch immediately;
3. When the emergency stop switch is pressed in the charging state, the charging will stop immediately, the circuit breaker on the output side will be disconnected, and the fault light will turn on;
4. In case of pile failure, unable to stop charging, internal circuit short circuit and other abnormal conditions, please immediately press the emergency stop switch;
5. When the emergency stop switch is pressed in the non-charging state, the fault light will be on and the display screen will jump to the fault interface;
6. When the critical situation is relieved, please rotate the emergency stop switch, otherwise the charging cannot continue;

Warm reminders:

1. Please read the operation instructions and precautions carefully.
2. Before charging, check whether the charging gun is firmly in contact with the charging interface and whether the indicator works well.
3. During the charging process, do not forcibly pull out the charging connector. Forcibly pulling out the charging connector may cause fire at the connector, resulting in safety accidents.
4. To stop charging in advance, press the stop button and hold it for 5-10 seconds before pulling out the charging gun.
5. If any safety accident occurs during the charging process, such as abnormal sound or short circuit, press the emergency stop button immediately, disconnect all power supplies, and contact the on-site personnel.

7 User maintenance instructions

7.1 Instructions

The upkeep of a DC charging station is rather easy. During operation, ventilation, heat dissipation, and environmental cleanliness should all be considered. There shouldn't be any explosive harmful substances in the air, nor should there be any gases strong enough to corrode metal and obliterate insulation. The equipment needs to be set up in a steady location free from strong trembling or turbulence. The entire machine should be inspected before the device is used for the first time after transit or when it is used again after a protracted outage. Along with inspecting the wiring in accordance with the drawings, it's important to see if any parts are loose or could come off during shipping or for other reasons, and whether the junction is sturdy and the component contact is excellent. The electrification test should be performed following the inspection. Depending on the quality of the air around the machine, dust removal and cleaning should be done on a regular basis. All power sources should be turned off before cleaning. Compressors, vacuum cleaners, or small brushes can be used to clean the device's exterior and interior components as well as the wire connections. When cleaning the device's internal parts, particularly the circuit board, avoid using any cleaning agents or damp towels.

7.2 Maintenance

Regularly inspect wiring terminals, wiring cables, contactors, toggle switches, and check for excessive dust and dirt according to the requirement to clean the pile both inside and outside. To prevent failure brought on by hidden problems, check the insulation strength of terminals and wiring cables, the contact force of contactors, contacts, and insurance, the jumper cap's tightness, the strength of the component, the control function, and the state switch of each module.

8. Instructions of packing, handling, transportation and storage

9.1 Package: Gross weight 65KG, Dimensions:980*710*560MM.
9.2 The transportation can be by car, vessel and aircraft.
9.3 During transportation, please pay attention to sunscreen and civilized loading and unloading, avoiding violent vibration and impact, etc.
9.4 Products should be stored in Class I environment and stored for more than 6 months are recommended to be re-tested and can only be used if they are qualified.

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