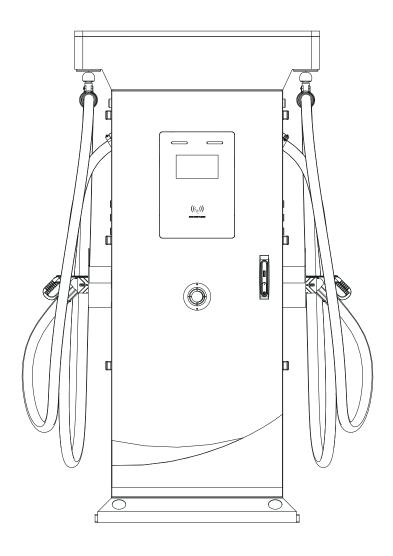
# User Manual EV DC charger HBE-DC60KW02ST-U



## Catalogue

IMPORTANT SAFETY INSTRUCTIONS	2
CONCERNANT LA SÉCURITÉ CONSERVER CES	3
Safety Precautions	4
Certification Standards	5
1.Interface	6
2. Dimensions	7
3. Brief Account	9
4. Equipment parameters	9
5. Schematic Diagram	10
6. Status Description	11
7. Packing List	12
7.1 Main Unit	12
7.2 Cable Management	12
8. Product Installation	13
8.1 Tools and Materials Required	13
8.2 Basic Requirements for Installation	13
8.3 DC Charging Pile Installation Requirements	14
8.4 Cable Management Installation	16
9. Charging operation	17
9.1 Charging operation flowchart	17
9.2 Charging Mode Startup operation interface	18
a. VIN Code Chagering	18
b. Charging by Scanning QR Code.	19
c. Charging by Swiping Card(Online/ Offline Card Swiping)	20
9.3 Process for Setting Parameters	21
9.4 Troubleshooting	22
10 Maintenance	23
10.1 General Maintenance	23
11.Instruction of Packing, Handing, Transportation and Storage	24
12 Limited Product Warrenty	2/

### 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.
- i) 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'une protection 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 l'aide.
- J) Risque de choc électrique



CONSERVER CES INSTRUCTIONS

### **Safety Precautions**

Do not bring dangerous items such as inflammable, explosive, or combustible 1. materials, chemicals, and combustible steam near charging piles.

- 2. Keep the head of the charging gun clean and dry. If there is any dirt, please wipe it with a clean dry cloth. Do not touch the charging refill with your hand when it is energized.
- 3. Do not use charging piles in case of broken charging guns or charging cables, cracks, exposed wires, etc. If anything above is found, please contact the staff in time.
- 4. Do not disassemble, repair and modify charging piles without permission. If there is any need for maintenance and modification, please contact the staff. Improper operation may cause equipment damage and power leakage.
- 5. If there is any abnormal situation during use, please immediately press the emergency button and cut off the power supply.
- 6. During the charging process, the vehicle is not allowed to drive and can only be charged when it is stationary. Please turn off the hybrid tram before charging.
- 7. In case of rain and thunder, please charge carefully.
- 8. Children should not approach and use charging piles during charging to avoid injury.
- 9. Please close the doors on both sides when charging to avoid electric shock.
- 10. During the charging process, the charging connector shall not be forcibly unplugged, which can avoid safety accidents caused by the ignition at the joints.

## **Certification Standards**

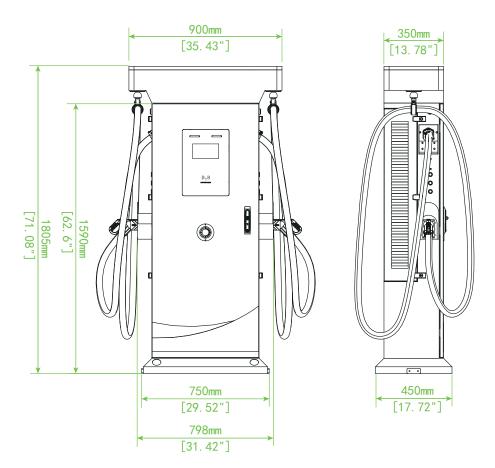
- UL 2202: 2022 Ed.3 Clause
- CSA C22.2 #346:2022 Ed.1Clause
- UL 2231-2:2012 Ed.2+R:15Dec2020 Clause
- UL 50E: 2020 Ed.3 Clause
- UL 991:2004 Ed.3+R:09Jun2010: Clause
- UL 1998:2013 Ed.3+R:24Sep2018 Clause

## 1. Interface





## 2. Dimensions



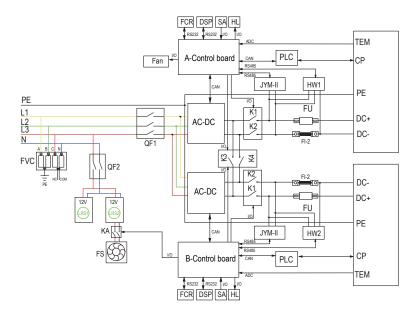
#### 3. Brief Account

This product is a floor-type DC charging pile, which is mainly used for DC fast charging of electric vehicles. It integrates charging control, human-machine interaction control, communication, billing and metering functions. With protection class up to IP54, it can work safelyoutdoors . The power conversion unit of the charging pile follows the principle of modular design to meet the charging needs of electric vehicles with different capacities. It is the best choice for DC fast charging.

## 4. Equipment parameters

Specifications	Values
Maximum power of the product	60KW
Input Voltage	480VAC
Input Frequency	60Hz
Output voltage	200-1000DC
Single Maximum Output Current	200A
Charge Mode	Optional:  □Offline swipe card □Operation online scan code □Operation online swipe card □Plug and play □Credit card terminal □Password charge
Communication Mode	Optional: □Ethernet □WIFI □4G
Operating Temperature	-30 ~ +55°C
Relative Humidity	≤95%
Protection Level	TYPE 3R
Anti-vandalism:	IK10, except screen
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 mounting type
Interfaces Count	One cable with 5 meters
Size	900x 450 x 1805 mm
Operating Environment	Outdoor & Indoor
Operating Occasion	Residential charging, Commercial charging

## 5. Schematic Diagram

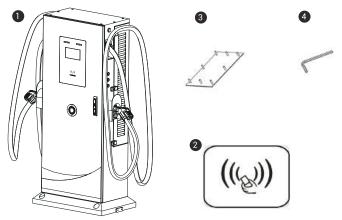


## 6. Status Description



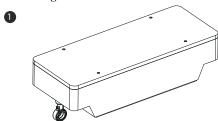
## 7. Packing List

## 7.1 Main Unit



No.	Product Name	Qty	Notes
1	DC Charger (With Charging Cables)	1	
2	RFID card (Optional)	1	
3	POS Cover Plate (Optional)	1	
4	Opposite side 3mm HEX Wrench	2	The cable puller clamp uses a fixed charging gun cable

## 7.2 Cable Management



No.	Product Name	Qty	Notes
1	Cable Management	1	

#### 8. Product Installation

### 8.1 Tools and Materials Required

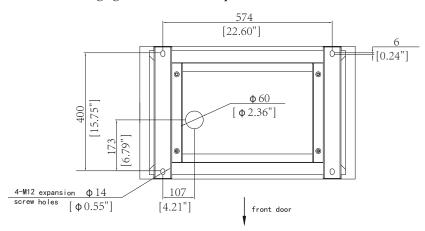
Туре	Description
Stanley screwdriver	No. 2 and 3
Stanley brand adjustable wrench	Pieces 6.3MM metric machine set STMT82672-23
Socket screwdriver	No. 8, 10, 17 and 19
Electrical tape	Black / 15mm (0.6inch) Width
Electric drill	One manual electric drill (Diameter φ12)
Wire nipper	One
Needle nose pliers	One

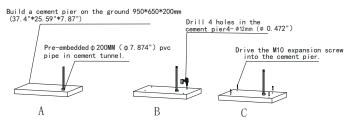
#### 8.2 Basic Requirements for Installation

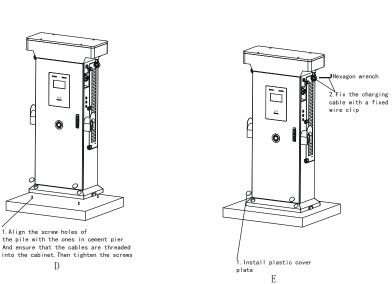
- 8.2.1 Reserve not less than 1 meter space around for the charger.
- 8.2.2 Chargers must be installed on customized concrete.
- 8.2.3 The height of concrete should be 200MM above the horizontal ground and the vertical inclination should not exceed 5 degrees. Drill  $\phi$ 13 holes in the cement base according to the drawing spacing and install M10 expansion screws.
- 8.2.4 Place the body into the corresponding hole on the base and tighten the screws.
- 8.2.5 The charging pile and cement base should have reliable grounding connection, the grounding resistance must be less than  $4\Omega$ .

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

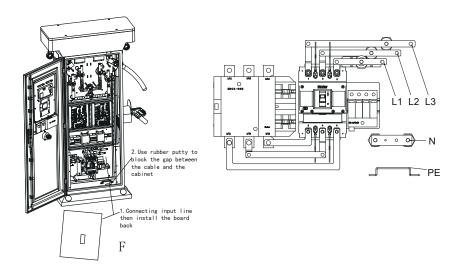
## 8.3 DC Charging Pile Installation Requirements

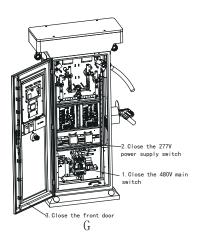


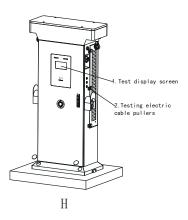




Page 14 of 25





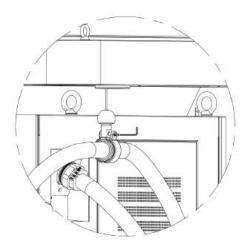


#### 8.4 Cable Management Installation

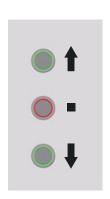
Use a hex wrench to loosen the screw of the cord coil and install the cord coil at a suitable length on the charging cable.



Replace the cover on the cable and fasten the screw to finish installation



- When the "
   " button is pressed, the charging cable will move upward.
   At this time, the cable is in the process of retracting the cable. The reset
   will be completed when the retracting operation stops automatically.

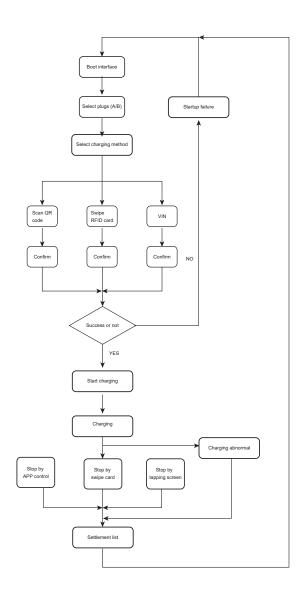


#### Please note:

- 2. During the cable release operation, you can choose to stop or continue releasing the cable.
- 3.During the cable retracting process, as the main control board is resetting each time the cable is wound, please do not press any button to ensure the next operation can be smoothly into the cable. The " " button should only be used in case of emergency.

## 9. Charging operation

## 9.1 Charging operation flowchart



### 9.2 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:

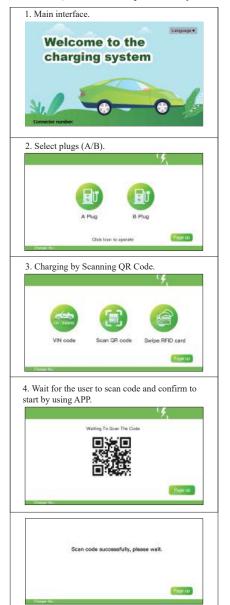
### a. VIN Code Chagering.





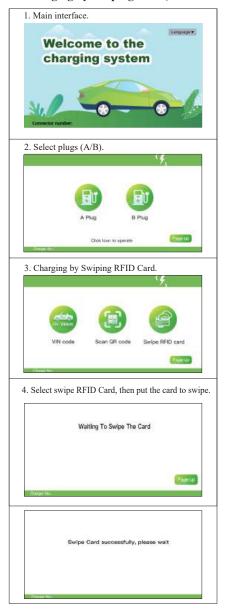
### b. Charging by Scanning QR Code.

Scan the QR code on the pile directly with APP





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



5. Enter the charging interface. Consume paperty Drianging voltage 6. Swipe the card again to stop charging and enter the settlement interface. Please return the plug to the organizer and drive away from the parking space to avoid taking up pile feet. Thank you for your cooperation. Charging capacity \$100 10 Owning dustionMrs. 500(%): Stap meson 7. Enter the settlement interface. Order invoure(b) CHAPQUARTER 8. Thank you.

## 9.3 Process for Setting Parameters

 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.



### 9.4 Troubleshooting

If the charging device is malfunctioning, the prompt light is always red, and the screen displays the cause of the malfunction, please follow the instructions in the table.

Description	Reason	Solution
Failure of electric meter!	Unable to communicate with the electricity meter	Check if the terminal is loose, otherwise contact customer service
Failure of insularion!	Unable to communicate with DC insulation tester	Check if the terminal is loose, otherwise contact customer service
Lightning protection fault!	Pile detected lightning protection signal	Check if the terminals are loose or if the lightning protection changes from green to red, otherwise contact customer service
Door fault!	The door is open.	Check that the door is closed, otherwise contact customer service
Emergency stop!	Emergency stop button pressed or broken button	Check that the emergency stop is pressed, otherwise contact customer service
Power module error!	Incorrect number of charging modules, or module failure	Open the side door to check if the module lights up red, otherwise contact customer service
PLC error!	Unable to communicate with PLC	Check if the terminal is loose, otherwise contact customer service

## **Notes:**

- If the above fault information occurs simultaneously in a large number of devices, it is highly likely to be a firmware error, and technical personnel need to be contacted to upgrade the pile
- Please pay attention to high voltage when dealing with the above related troubleshooting, and try to complete it under the guidance of professionals.

#### 10 Maintenance

#### 10.1 General Maintenance

- The DC Fast Charger is cooled by forced air. Please keep charger in a ventilated location and do not block the air vents of the DC Fast Charger.
- Please clean or replace the air filters regularly to ensure the DC Fast Charger works properly.
- The housing was made of welding process and surface painting. It is necessary to keep the exterior clean all
  the time. It's easy to get rusty if not keeping the exterior clean especially in corrosion sensitive environment.
   Slightly rusty will not affect charger performance, but if charger is serious rusty during or exceed the
  warranty period, please contact local vendor for instruction.
- Clean the DC fast Charger at least three times a year, keep the exterior clean at all times.
- Clean the outside of the cabinet with damp cloth or wet cotton towel, only use low-pressure tap water and cleaning agents with PH level between 6 to 8.
- Do not apply high-pressure water jets.
- Do not use cleaning agents with abrasive components and do not use abrasive tools. Improper cleaning
  agents might spoil coating, painting, surface, brightness and durability of all exterior parts.
- If there is water intruding into the DC Fast Charger then please cut off the power source immediately and contact the DC Fast Charger provider for repair.
- Please make sure the charging connector is returned to the holder of the charging connector after charging to prevent damage.
- If there is damage to the charging connector, charging cable or holder of the charging connector then please contact the DC Fast Charger provider.
- When using the DC Fast Charger please handle properly. Do not strike or scrape the cabinet or screen.
- If the enclosure or screen is broken, cracked, open or shows any other indication of damage then please contact the Standalone DC Fast Charger provider.



WARNING: Danger of electrical shock or injury. Turn OFF power at the panelboard or load center before working on the equipment or removing any component. Do not remove circuit protective devices or any other component until the power is turned OFF.

Disconnect electrical power to the DC Fast Charger before any maintenance work to ensure it is separated
from the supply of AC mains. Failure to do so may cause physical injury or damage to the electrical system
and charging unit.

#### NOTE:

- Before switching off main breaker to begin maintenance, please record the status code number on the LCD monitor.
- After maintenance door opened or NFB of charger turned off the charger is still hazardous. Only visual inspection can be operated.
- Maintenance of the DC Fast Charger shall be conducted only by a qualified technician.
- After opening the front door of the DC Fast Charger, turn off the main breaker and auxiliary breaker before
  any maintenance work.
- Clean the ventilation filter every six to twelve months.
- Please confirm the main power junctions are tightened every month, and rotate cables testing when the power
  off. If any main power screw is loose will be resulted in damage on charger or smoke on the connections.
   Please confirm screw torque requirement table.
- Charging cable maintenance: Do not twist, bend the charging cable. The metal contact should not fade or be rusty.
- Please provide the EVSE information including serial number, model name, status code, failure behavior and timing, and also connect the EVSE to the Internet before remote diagnostics and upgrading

## 11.Instruction of Packing, Handing, Transportation and Storage

#### Package:

Weight	300Kg
Packcage Dimensions	1020*620*2035mm(40.16"*24.41"*80.12")

- The transportation can be by car, vessel and aircraft.
- During transportation, please pay attention to sunscreen and civilized loading and unloading, avoiding violent vibration and impact, etc.
- 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.

## 12. Limited Product Warranty

The warranty period of this charger is according to purchasing contract; two years typically.

Any spare parts provided by Supplier and used as replacements for repair are covered by a two-year guarantee.

Replacement and repair parts manufactured by alternative manufacturers to those on the maintenance parts are only allowed if authorized by Supplier.

The housing was made of welding process and surface painting. It is necessary to keep the exterior clean all the time. It's easy to get rusty if not keeping the exterior clean especially in corrosion sensitive environment. Slightly rusty will not affect charger performance, but if charger is serious rusty during or exceed the warranty period, please contact local vendor for instruction.

#### Warranty Exclusions:

- Damage or rendered non-functional as a result of power surges, lighting, earthquake, fire, flood, pest
  damage, abuse, accident, misuse, negligence or failure to maintain the product or other event beyond
  Supplier's reasonable control or not arising from normal operating condition.
- Cosmetic or superficial defect, dents, marks or scratches after use.
- Components which are separate from the product, ancillary equipment and consumables, such as door key, RFID card, air filter, fuse, cable, wires, and connectors.
- Damage as a result of modifications, alterations, or disassembling that were not pre-authorized in writing by the Supplier.
- Damage due to the failure to observe the applicable safety regulations governing the proper use of the product.
- Installed or operated not in strict conformance with the documentation, including without limitation, not
  ensuring sufficient ventilation for the product as described in the Supplier installation instruction.

If a defect in the product arises and a valid claim is received within the warranty period, your sole and exclusive remedy will be for Supplier, at its sole discretion and to extent permitted by law, to

- Repair the defect in the product at no charge, using new or refurbished parts.
- Exchange the product with a new or refurbished product that is functionally equivalent to the original
  product.

Any remedy hardware product will be warranted for the remainder of the original warranty period or 90 days from delivery to the customer, whichever is longer.

To receive the remedy, set for above, you must contact the Supplier during the warranty period and provide the model number, series number, proof of purchase, and date of purchase.

This warranty does not cover the damages caused by adapter usage accidents or by other unauthorized operations/services.

