

EV CHARGER STATION

WEVC-40

EV CHARGER STATION

INSTRUCTION MANUAL



IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS



WARNING:

This manual contains important instructions for Home Flex. When using electric products, always follow basic precautions, including the following.

- 1. Read and follow all warnings and instructions before installing and operating the EV charging station.** Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage and will void the Limited Warranty.
- 2. Only use licensed professionals to install your EV charging station and adhere to all national and local building codes and standard.** Before installing the EV charging station, consult with a licensed contractor, such as a licensed electrician, and use a trained installation expert to ensure compliance with local building and electrical codes and standards, climate conditions, safety standards, and all applicable codes and ordinances. Inspect the charging station for proper installation before use.
- 3. Always ground the EV charging station.** Failure to ground the charging station can lead to risk of electrocution or fire. The charging station must be connected to a grounded, metal, permanent wiring system, or an equipment grounding conductor shall be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all applicable codes and ordinances.
- 4. Install the EV charging station using a approved method.** Failure to install on a surface that can support the weight of the charging station can result in death, personal injury, or property damage. Inspect the charging station for proper installation before use.
- 5. This charging station is not suitable for use in hazardous locations.** Do not install Home Flex near flammable, explosive, or combustible materials
- 6. This device should be supervised when used around children.**
- 7. Do not put fingers into the electric vehicle connector.**
- 8. To reduce the risk of electric shock, use indoors only.**
- 9. Do not operate Home Flex in temperatures outside its operating range.** For charging stations set to 40 A, the range is -30°C to 50°C.
- 10. Do not use this product if the flexible input power cable or EV charging cable is frayed, has broken insulation, or any other signs of damage.** Please call customer support immediately at +86-0535-3126902 or email to sales@dongfang-china.com
- 11. Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.** Please call customer support immediately at +86-0535-3126902 or email to sales@dongfang-china.com

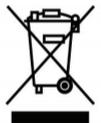


Important:

Under no circumstances will compliance with the information in this manual relieve the user of his/her responsibility to comply with all applicable codes or safety standards. This document describes the most commonly used installation and mounting scenarios. If situations arise in which it is not possible to perform an installation following the procedures provided in this document, contact customer support. **Is not responsible for any damages that may occur resulting from custom installations that are not described in this document or for any failure to adhere to installation recommendations.**

Product Disposal

Home Flex is electronic and therefore may not be disposed of as part of unsorted domestic waste. Inquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



No Accuracy Guarantee

Commercially reasonable efforts were made to ensure that the specifications and other information in this manual are accurate and complete at the time of its publication. However, the specifications and other information in this manual are subject to change at any time without prior notice.

VERIFY CONTENTS

CHECK THE BOX TO ENSURE YOU HAVE THE QUICK START GUIDE, THIS INSTALLATION GUIDE, AND THESE PARTS:

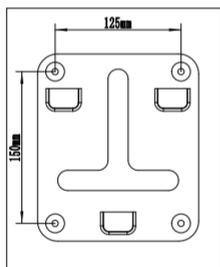
1 CHARGER STATION x 1



2 RF card x 2



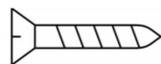
3 Installation template x 1



4 Installing retainer plate x 1



5 6mm x 35mm screws x 4

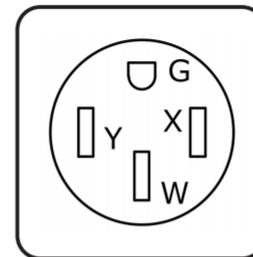


Note: If you are missing any of these parts, please call customer support immediately at +86-0535-3126902 or email to sales@dongfang-china.com

GATHER TOOLS

You also need:

a. NEMA 14-50 outlet



b. Tape



c. Level



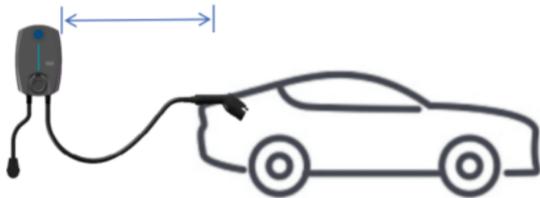
d. Drill



PLAN THE LOCATION

Before beginning work, check the site for appropriate mounting location and electrical capacity.

1. Ensure the homeowner has chosen an installation location that allows the charging cable to reach the car charging port while still providing slack. Ensure there is a stud available at the desired location for mounting the charging station. Ensure there is WiFi signal available.



WARNING: In areas with frequent thunderstorms, add surge protection at the service panel for all circuits. Ensure all power and ground connections, especially those at the breaker and bus bar, are clean and tight. Remove all oxide from all conductors and terminals before connecting wiring.

2. Ensure the electrical panel supports a 240 V dedicated circuit with a new, dedicated, non-GFCI two-pole circuit breaker, in accordance with local codes and ordinances.

Note: We do not recommend using a GFCI breaker as the Home Flex has charging circuit interrupting device (CCID) protection. Using a GFCI breaker in the panel can cause nuisance tripping.

3. Environmental Enclosure: Type 3 indoor or outdoor use "Raintight" "Dusttight".

MOUNT THE CHARGING STATION



DANGER: RISK OF SHOCK. Turn off the circuit breaker to the 240 V outlet. Do not restore power to the outlet until installation is complete. Failure to follow these instructions could result in shock or electrocution.

1. To find the charging station's ideal mounting height, plug the charging station's input power cable into the outlet. Place the charging station against the wall.

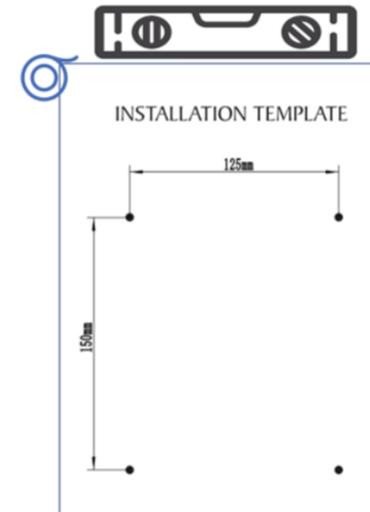
NOTE: This device shall be mounted at a sufficient height from grade such that the height of the storage means for the coupling device is located between 450 mm (18 inches) and 1.2 m (4 feet) from grade.



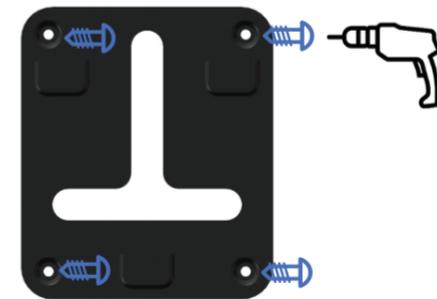
DANGER: If the front status light turns on when the charging station is plugged in, the circuit is not off. STOP IMMEDIATELY. Unplug the charging station and turn off the power to the outlet at the circuit breaker until the installation is complete.

Note: Ensure the input power cable has a slight curve, and is not stretched. Make sure the power supply cannot contact the floor once the EVSE is installed and plugged into the outlet

2. Tape the template to the wall of the ideal mounting height. Ensure the template is level



3. Put the installing retainer plate on the template, Ensure the four mounting holes are aligned, use the driver bit to drive the screw into the mounting hole.



4. Install the charging station on the stand.

COMPLETE THE INSTALLATION

1. Extend the cable to its full length to remove any kinks or tension
2. Drape the charging cable over the top of the charging station and dock the connector in its holster
3. Ensure labels specifying circuit amperage are applied to the bottom of the charging station and to the circuit in the electrical panel.
4. Restore power to the circuit at the electrical panel.
5. Plug the charging station into the outlet (if applicable).
6. Watch to ensure that the front status light glows red, then blinks blue.



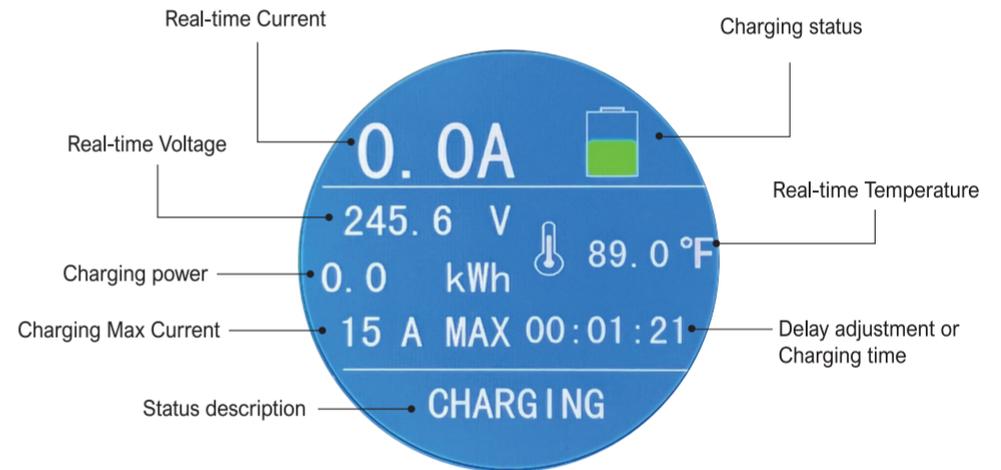
Important: Without any action the charging station charge current is limited to 40 amps.



A device that has an automatic reset feature shall:

- a) Be marked with the word "WARNING"
- b) Be marked with a notice that an automatic reset feature is provided, and
- c) Have an indicator to tell the user that a trip has occurred and that an automatic reset feature is engaged.

LCD SCREEN DISPLAY



MAIN PARAMETER

WEVC-40(Level 2 EV Charger)	
Electrical Data	
Power	Max 9.6KW
Rated Voltage	110V-240V AC Single-phase
Adjustable Current	6A-40A
Cable Spec.	EVE 3×9AWG+1×20AWG
Plug	NEMA 14-50P/6-50P
Input Frequency	60Hz
Insulation Resistance	>100MΩ (DC 500V)
Terminal Temperature Rise	<50K
Mechanical Life	>10000 times
Function	
Charging Speed	Max 30miles/hr
Bluetooth	√
Screen	LCD (1.3")
Charging time setting	√
LED Indicator Light	√
Current Adjustable	Max 40A
Delay Start Timer	1-10Hr
Multisafety protection	Surge Protection/Overcurrent Protection/Overvoltage Protection/Undervoltage Protection/Short Circuit Protection/ Leakage protection/Electrostatic Protection/Protecting Earthing Detection/Circuit board Temp Sensor
Working Environment	
RCD	Type A, AC 20mA
Environmental Enclosure	Type 3
Operating Temperature	-30°C~+50°C
Guarantee	
Warranty	36 months
Certificate	ETL/CETL(SAE J1772、UL2594、UL 2231-1/-2)

LED LIGHT DISPLAY STATUS

Indicator Light	With/Without ground wire	Blinking State	Charger Station State	Status Description
Green 	√	Everbright	Ready	PREPARING
	√	Slowly Flash	Reservation	RESERVED
	√	Slowly Flash	Charging	CHARGING
	√	Everbright	Charger Complete	FINISHING
Blue 	√	Everbright	Idle	AVAILABLE
Red 	√	1 flashes with 5" interval	Fault/Current Leakage	Creepage
	√	8 flashes with 5" interval	Fault/CP Error	
	√	5 flashes with 5" interval	Fault/over heat	OverTemp
	√	4 flashes with 5" interval	Fault/over current	OverCurr
	√	3 flashes with 5" interval	Fault/under voltage	UnderVlo
	√	2 flashes with 5" interval	Fault/over voltage	OverVlo
	x	Fast Flash	Charging	GroundFail
	x	Fast Flash	Idle	GroundFail

TO PAIR THE CHARGER STATION AND THE APP

The X Smart App is a free app for your mobile device.
You could find the detailed operation procedure of the APP in this website: <https://xc-sphinx.x-cheng.com/sphinx/app/index.html>



IOS



Android

1) Download APP

IOS:

- 1.Scan the QR CODE and download the App;
2. Search the App on the AppStore and download the App;

Android:

- 1.Scan the QR CODE and download the App;
2. Search the App on the Google Play and download the App;

2) Sign up

- 1.Turn on the X Smart
- 2.Click the "sign up" button
- 3.Enter your email and password, check the "User Registration Agreement"、"Privacy Policy Agreement"
- 4.Click the "sign up" button
- 5.Login the mailbox and receive the "X Smart" register mail
- 6.Click the Activate account link
- 7.Registration is complete

3) Login

- 1.Turn on the X Smart
- 2.Enter your email and password
- 3..Click the "Login" button

4) Local charger operation

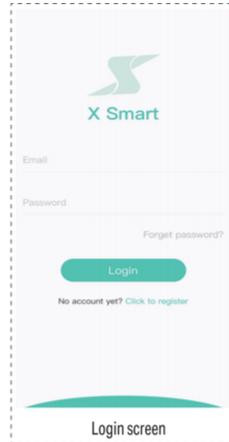
- 1.Click the Charger you need to connect. After successful connection you can operate the Charger.
2. The basic operation of the Charger is "Start"/"Stop"Charging、Reservation Charging、Parameter setting。
3. Click the "Start"/"Stop"Charging can star or stop the Charger.
- 4.Click the "Reservation Charging", you can choose the Start time, Working hours, Recharge (Optional) . Click the "Reservation Charging" again, the Charger can start charging.
- 5.Click the "Parameter setting", you can set the Charger. Such as set operation current, set led brightness, start/stop Plug and charge mode and so on.

5) Charger share

- 1.Click"Personal"button, you can enter the user center.
- 2.Click"Charger share", you can enter the Charger share interface.
- 3.Click"Add"button, you can enter the add Charger share interface.
- 4.Input the email you need to share, Quantity of electric charge (optional), choose the Charger you need to share and click the "charger share" button
- 5.Charger share completed

6) Charger operation set

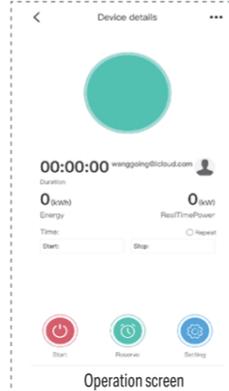
- 1.After connect the charger through the bluetooth or wifi, you can enter the charge point details interface.
2. Click the "Parameter setting"
3. You can set the charger. Such as set operation current, set led brightness, start/stop Plug and charge mode and so on.



Login screen



Connection screen



Operation screen

TO PAIR THE CHARGER STATION AND THE APP

7) Charger release (bluetooth)

- 1.After connect the charger through the bluetooth, you can enter the charge point details interface.
- 2.Click the "MORE"
- 3.Click the "Charger release", you can release the charger.

8) Charge regularly

- 1.After connect the charger through the bluetooth or wifi, you can enter the charge point details interface.
- 2.Click the "Charge regularly", you can enter the "Charge regularly" interface
- 3.you can choose the Start time, Working hours, Recharge (Optional) and click "confirm"
- 4.the charger can Charge regularly.

9) RFID card add and delete

- 1.Click"Personal"button, you can enter the user center.
- 2.Click"IC card management", you can enter "IC card management" interface.
- 3.Click"Add" and put the IC Card on the charger.
- 4.When it finished, the RFID CARD is added.

10) Charger release (WiFi)

- 1.After you connect the charger via wifi, you can enter the charge point details interface.
- 2.Click the "MORE"
- 3.Click "release", you can release the charger.
- stop Plug and charge mode and so on.

For Both FCC & IC application:

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 B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For Both FCC & IC application:

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 façon à ce que la population ne puisse y être exposée à une distance de moins de 20 cm. Installer les antennes de façon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l'antenne.

La FCC des États-Unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son fonctionnement.

LIMITED WARRANTY

Limited Warranty for the Home Electric Vehicle charging station

Our Promise

This Limited Warranty for the Home Electric Vehicle charging station ("Warranty") applies to you, the original purchaser of a new charging station from solely for use by you at your residence, This warranty is not transferrable and is valid for purchasers located in the U.S.A. and Canada only.

LIMITED TWO-YEAR PARTS EXCHANGE WARRANTY:

Subject to the exclusions from Warranty coverage set forth below, we warrants that, when used under normal operating conditions, your charging station will be free from any defects in materials or workmanship for a period (the "Warranty Period") of three (3) years from the date of original purchase. If, during the Warranty Period, your charging station becomes defective in breach of the Warranty, we will, upon written notice of the defect received during the Warranty Period, either repair or replace the charging station. The Warranty covers both parts and factory labor necessary to repair your charging station, but does not include any on-site labor costs related to un-installing or reinstalling the repaired or replacement charging station.

Follow These Easy Steps to Obtain Warranty Service

1. If at any time during the term of your Warranty you believe you have a defective charging station, contact Customer Service at +86-0535-3126902 or email to sales@dongfang-china.com.

2. You will be asked for each of the following:

- ①. A detailed description of the problems you are experiencing with the charging station
- ②. The model number and serial number of the charging station:
- ③. Proof of purchase
- ④. Shipping information

3. If it is determined that the defect appears to be covered by your Warranty and your Warranty is still in effect you will be provided a Returned Material Authorization number to reference when returning the defective charging station for repair or replacement.

4. Ship the defective charging station to us and reference the Returned Material Authorization number in the shipping documentation. The charging station must be returned in its original shipping container or in another shipping container designed to prevent damage to the charging station.

5. If your charging station is covered by your Warranty, we will either repair or replace the defective charging station at no charge to you and ship the repaired or replaced charging station back to you at our expense.

Important

1. You are responsible for the proper installation and maintenance of the charging station including the un-installing of any defective charging station and the installation of the repaired or replacement charging station returned to you.
2. Any service or repairs beyond the scope of the Warranty above will be performed upon customer approval at our then prevailing labor rates and other applicable charges.
3. Any charging station that is found by us to be out-of-warranty or otherwise ineligible for warranty service will be returned, repaired or replaced upon your approval at the standard charges at your expense.
4. Please read carefully through the detailed descriptions of the WARRANTY, the EXCLUSIONS FROM LIMITED PRODUCT WARRANTY and the LIMITATIONS ON WARRANTY AND LIABILITY on the following pages to assure that your charging station is eligible for warranty service without additional cost to you.

Exclusions from Limited Product Warranty

IMPORTANT: The Warranty on your charging stations shall not apply to defects or service repairs resulting from the following:

Improper site preparation or maintenance, improper installation, cosmetic damage such as scratches and dents, or normal aging.

Abuse, vandalism, damage or other problems caused by accidents, misuse or negligence (including but not limited to physical damage from being struck by a vehicle), or use of the charging station in a way other than as specified in the applicable documentation.

Damage to the charging station caused by software, interfacing, parts, supplies or any other product not supplied by us.

Damage as a result of extreme power surge, extreme electromagnetic field or any acts of nature.

Any other causes beyond the control of us.

IN ADDITION: The Warranty on your charging station shall not apply if the original identification markings (for example, serial numbers and trademarks) have been defaced, altered or removed or if the charging station is used or installed for any purpose other than for use at a single family residence.