



DC 40KW pillar charging station

user 's manual



Huizhou Olink Technology Co.,Ltd



Factory Add

FLAT/RM O1, 7&8/F, 27-28 BLDG ZhongNan Hi-Tech Electronic Innovation
Park, 27 Li Cheng Industrial Road, ShuiKou HuiZhou, GuangDong, 516005 China

Please read this manual carefully and keep it properly before using the product.

一. Product Description	2
二. Product Features	3
三. product mix	4
四. usage method	5-8
五. Maintenance and installation	9-10
六. Fault handling	11-14
七. Installation instructions	15
八. Quality Assurance Card	16

Product parameters	
Product Name	DC 30~40KW pillar charging station
Rated input voltage	380Vac \pm 20% (three-phase)
rated power	30KW 40KW
Maximum input current	100A (three-phase) 125A(three-phase)
Constant Output Current Range	0.5~100A
Voltage Regulation Accuracy	$\leq \pm 0.5\%$
Output Voltage Range	200~1000V
Charging method	Scan code for charging, swipe card for charging
Protection function	Protection against overvoltage, undervoltage, overcurrent, short circuit, leakage, etc
Protection level	IP55
Charging interface	GB/T 20234.2-2015
Exposed gun line length	Standard configuration of 3 meters (customizable)
work environment	Altitude:<2000m, Temperature: -20 °C~65 °C, Derating work above 50 °C
External dimensions	520mm*208mm*668mm(length * width * height)
Number of charging guns	one
human-computer interaction	7-inch screen
working temperature	-25 °C to 40 °C
humidity	5% -95% RH (no condensation)
communication protocol	OCPP 1.6
Support gun head	GB/T
Design standards	GB/T 18487.1

Product Features

security

- Equipped with unique safety mechanisms such as pre charging protection, main circuit safety detection, and remote diagnostic management;
- Equipped with basic protection measures such as lightning protection, over/under voltage, over-current, short circuit, and over temperature;
- Comprehensive charging protection functions and mechanisms effectively ensure the safety of personnel and vehicles, and guarantee charging operations Safe and reliable.

intelligence

- Intelligent compatibility with both new and old national standard vehicles.

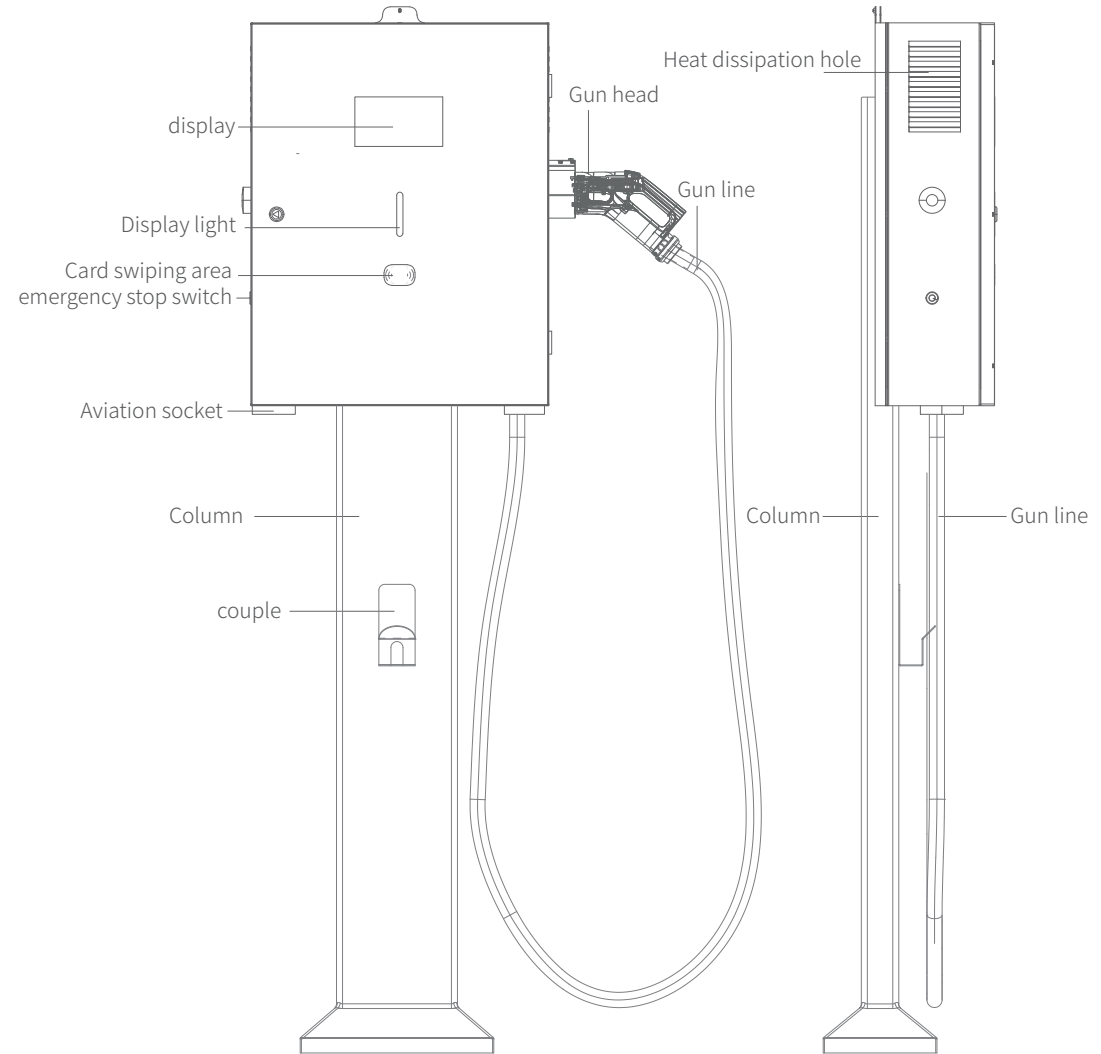
reliable

- Independently design hardware and software for each layer, with high consistency, compatibility, and stability within the system
- The performance of voltage stabilization accuracy, current stabilization accuracy, ripple coefficient, standby power consumption, etc. is better than the industry average level;
- The system has high reliability and can be reliably charged in various environments.

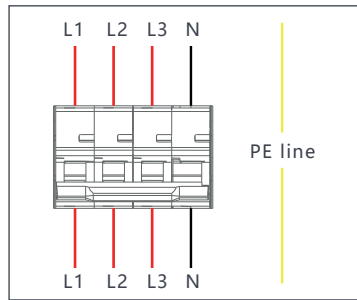
flexible

- Support APP, mini program, VIN code, card charging, flexible authentication.

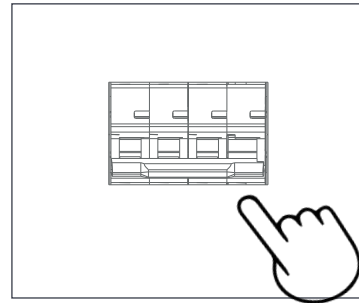
product mix



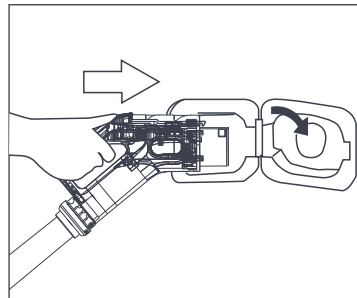
usage method



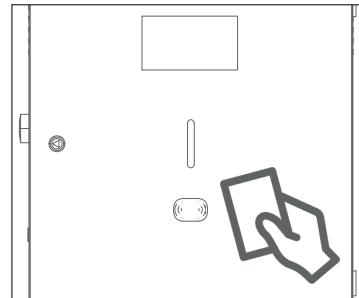
1. Connect the wires as shown in the figure, L1 live wire, L2 live wire, L3 live wire, N neutral wire, PE wire



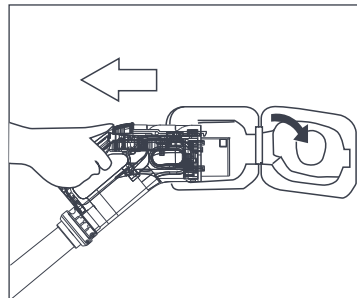
2. Turn on the air switch



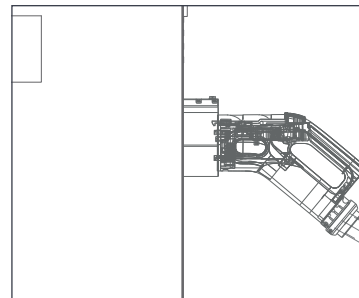
3. Insert the charging gun head into the vehicle body



4. Follow the prompts on the display screen to swipe the card and start charging



5. Charging completed, then click shutdown to end charging
Unplug the charging plug



6. Insert the charging gun back into the machine

Operation steps

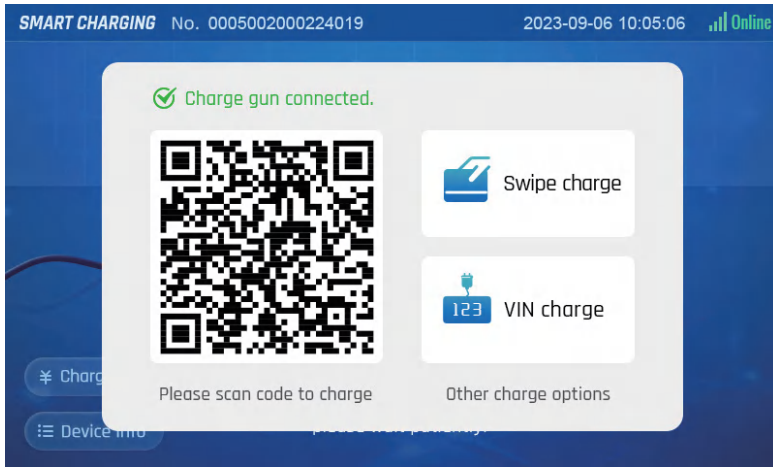
After successful startup, the display screen enters the welcome interface.



Then it will jump to the idle interface, please link the charging gun to the electric vehicle.



Before charging, please plug in the charging gun and directly use the mobile app or supported mini program to scan the authentication method selection interface QR code, after configuring the charging parameters, you can start charging. You can also click the "Scan Code to Charge" button, and the interface will jump to page two QR code scanning interface, scan the QR code with a mobile app or supported mini program, and after configuring the charging parameters, you can also start it charge.



Charging status check

The charging status can be viewed in real-time on the charging station display screen, mobile app, and mini program.



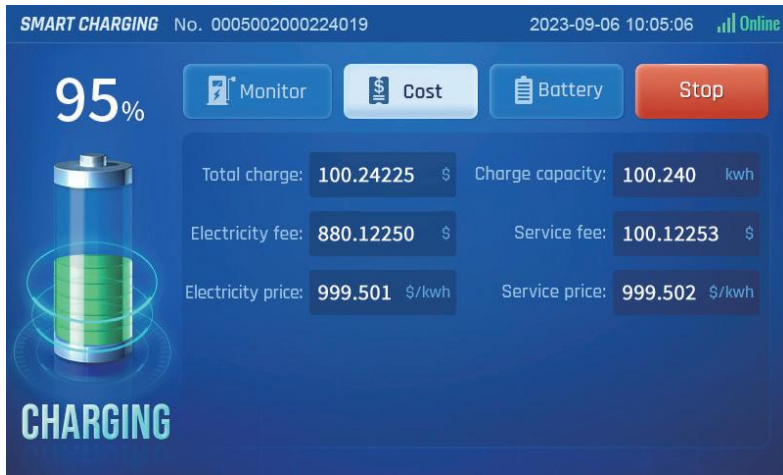
Start charging

Entering charging mode, you can see the charging fee standard and charging duration.



Finally, end the charging and check the cost settlement.





When the charging order initiated by card swiping needs to end charging, please click on the "Stop Charging" button on the display screen. Press the button and then follow the on-screen prompt to swipe the card and stop charging. For apps and mini programs, simply click on the phone Stop button on the interface to end charging. After completing the charging process, please insert the charging gun back into the charging station. Please do not Discard it on the ground at will.



The dust net should be cleaned at least once a quarter and replaced every six months to avoid affecting the charging station Normal heat dissipation.

Arrival inspection

- After the charging station arrives, confirm whether the packaging is damaged, whether the labels are complete and correct. If there are any abnormalities, please inform the carrier immediately and take photos. According to the evidence, you can first sign and indicate, and immediately contact the manufacturer to discuss the handling;
- Check whether the product accessories and accompanying documents are complete, and properly store the accessories and documents;
- Visually ensure that the charging station is free from any abnormal conditions such as collision, scratches, cracks, dents, rust, damage, paint peeling, etc;
- Check the charging gun for any abnormal conditions such as pressure damage, rust, damage, skewed pins, loose connections, etc;
- Sign for documents, record the situation, and promptly save, scan, distribute or transfer documents to related parties.

During the installation and maintenance process

- Live working is strictly prohibited:
- It is strictly prohibited to dismantle charging stations and internal components without authorization;
- When operating a charging station, it is essential to ensure personal safety and take appropriate protective measures
- When wiring cables, the order of "PE line ->neutral line ->phase line" should be followed, and when disconnecting cables, the opposite order should be followed;
- All assignments must strictly comply with relevant safety regulations and standards.

Lamp language explanation

- Green light constantly on: standby mode
- Green light flashing: vehicle connected;
- Red light constantly on: charging status
- Red light flashing: charging started;
- Yellow light constantly on: fault status;
- Yellow light flashing: communication failure.

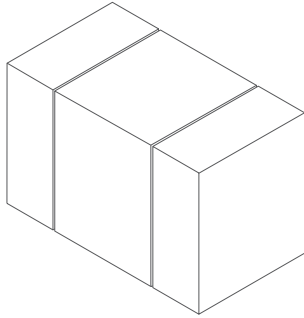
Maintenance instructions

Cleaning and replacement of dust screen

- After running for a certain period of time, the dust net must be cleaned or replaced, and the dust and foreign objects at the air inlet must also be cleaned.

Remove packaging

Use an art knife to remove the packaging, confirm if the packaging is damaged, if the labels are complete and correct. If there are any abnormalities, please inform the carrier immediately, And take photos for evidence. You can sign and indicate it first, and immediately contact the manufacturer to discuss the handling.



- Cut off the straps on the outer box with a craft knife;
- Remove other internal protective materials such as cardboard boxes, plastic PE protective film, EPE protective pads, etc.



danger

Ensure that the main circuit breaker and control circuit breaker of the charging station are both in the disconnected state.



warning

Damage to the charging station during transportation after delivery is not covered by the warranty.

Disclaimers

Charging stations must be operated and used under specified conditions, including but not limited to accidents or damages caused by the following situations, which our company will not be responsible for

Related Responsibilities:

- All damages to charging stations and other equipment caused by human factors;
- Malfunctions and damages caused by failure to use according to the requirements of this manual;
- The equipment is functioning normally and is old, worn out, or aged;
- Disassembling, repairing, modifying products without the consent of our company
- Damage caused by other uncontrollable forces such as floods, fires, snow strikes, typhoons, earthquakes, and abnormal voltages.

Charging module replacement

- In general, it is prohibited to remove the charging module at will. Only when the charging module malfunctions must it be replaced or replaced. The charging module can only be plugged in and out during the renovation and upgrade process.

Maintenance guidance for charging stations

The content of this chapter is a recommended reference guide for monthly or quarterly inspections. To ensure the reliable operation of charging stations, it is necessary to ensure that Ensure the quality of daily maintenance and inspection of charging stations.

Temperature and humidity

- Testing standards: temperature range of -5 ° C~40 ° C, relative humidity of 20%~85%;
- Testing tool: temperature and humidity meter;
- Detection method: The hygrometer measures relative humidity, and attention should be paid to keeping the water and gas collection unit clean and pollution-free during measurement.

Air duct and dust accumulation

- Testing standard: The module fan duct and cabinet duct are unobstructed and free of dust accumulation;
- Testing tools: brushes, etc;
- Testing method: Disassemble, clean, and wash the fan, baffle, dust net, etc., and reinstall them in their original positions after drying.

noise

- Testing standard: The charging module fan runs without any abnormal sound.

Internal connection

- Testing standard: The socket connection is good; There is no local overheating or aging phenomenon in the connecting cable

input voltage

- Testing standard: The AC input line voltage must be between AC 110~250V
- Testing tool: multimeter.

Alarm Log

- Testing standard: Read alarm records from monitoring system records, check and clean as needed.

Fault handling

Serial number	Fault description	processing method
1	The power switch cannot be turned on after multiple operations	◦ Contact after-sales service.
2	The fault indicator light is on.	◦ Contact after-sales service.

Scrap management

- Due to aging of main components, decreased performance indicators, and non-compliance with basic usage requirements;
- Due to the charging station reaching or exceeding the equipment's service life, the manufacturer will no longer provide technical service support:
- Due to severe damage that cannot be repaired or repair costs approaching those of similar newly purchased products:
- Serious environmental pollution caused by noise or radiation poses a threat to personal safety and health.

Installation instructions



Step 1: Fix the backboard to the column with screws



After installation, as shown in the above figure



Step 2: Use screws to connect the backplate to the charging pile chain Join together



Final installation completed

Quality Assurance Card

There is a dedicated after-sales service organization for charging, composed of professional technicians, including 24-hour telephone technical guidance services On site training for service and after-sales service engineers, equipment maintenance services, etc. The company has established comprehensive after-sales service standards and strict regulations. The after-sales service assessment system aims to gradually improve after-sales service.

After sales service card

full name: _____ Telephone: _____

Email: _____ Address: _____

First installation and debugging time: _____

matters needing attention

- If there are any problems with the product, please contact customer service as soon as possible.

Service Hotline: 4000-585-888

