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## About this User Manual

### **Read carefully before installation, maintenance and operation!**

- ▷ Failure to read this manual carefully may lead to improper operation.
- ▷ Failure to follow the safety notes may lead to a danger of death, injury and damage to the device, supplier cannot accept any liability for claims resulting from this.

### **Thank you very much to use our AC EV Charging Station.**

- ▷ This manual describes the installation, use and maintenance of AC EV Charging station. This manual is intended for installation and maintenance personnel.

Article	Model Number
1-phase, 3.5kW, with charging cable	M3P116EN
1-phase, 7kW, with charging cable	M3P132EN

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- ▷ The text and illustrations in this user manual are general explanations of these type of equipment, and the actual product may be inconsistent with this manual in detail.

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## 1. ABBREVIATIONS

S/N	Abbreviations	Description
1	<b>IEC</b>	International Electrotechnical Commission
2	<b>EV</b>	Electrical Vehicle, this can be BEV (battery EV) or PHEV (plug-in hybrid EV)
3	<b>EVSE</b>	Electric Vehicle Supply Equipment [IEC61851-1]
4	<b>OBC</b>	On-board charger (of an EV)
5	<b>LCD</b>	Liquid Crystal Display
6	<b>LED</b>	Light-emitting Diode
7	<b>RFID</b>	Radio Frequency Identification
8	<b>CMS</b>	Central Management System
9	<b>OCPP</b>	Open Charge Point Protocol
10	<b>IP</b>	Ingress Protection
11	<b>HMI</b>	Human-Machine Interface
12	<b>RCMU</b>	Residual Current Monitoring Unit
13	<b>MCB</b>	Miniature Circuit Breaker
14	<b>TN</b>	<p>"T" — indicates the connection between earth and the power supply is direct connection of a point with earth (French: Terre).</p> <p>"N" — the earth connection is supplied by the electricity supply network, either separately to the neutral conductor (TN-S), combined with the neutral conductor (TN-C), or both (TN-C-S).</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p><b>TN-S system</b> 230/400VAC</p> </div> <div style="text-align: center;"> <p><b>TN-C system</b> 230/400VAC</p> </div> <div style="text-align: center;"> <p><b>TN-C-S system</b> 230/400VAC</p> </div> </div>
15	<b>PE</b>	Protective Earth. The conductor that connects the exposed metallic parts of the consumer's electrical installation
16	<b>PEN</b>	PEN line is to accurately and well ground the original neutral line, and

connect the shell of the equipment to be protected to the PEN line

## 2. SAFETY NOTES

### 2.1. Safety signs used

The following warning signs, mandatory signs and information signs are used in this manual, on and in the AC EV Charging station.



**CAUTION:** Warning of electrical hazards.

This sign is intended to alert the user that severe personal injury or substantial property damage can result if the device is not operated as requested.



**ATTENTION:** Warning of a danger spot or dangerous situation.

This sign is intended to alert the user that minor personal injury or material damage can result, if the device is not operated as requested.



**CAUTION:** Do not touch by hands in case of ESD.

Indicates the possible consequences of touching electrostatically sensitive components.



**CAUTION:** Warning of combustion.



No access for unauthorized persons.



No access for persons wearing pacemakers.



Use protective footwear.



Must wear a safety helmet.



Indicates important texts, notes or tips.



Indicates recycling information.



Indicates assemblies or parts that must be disposed of properly.

Do not dispose of them in the household waste.

## 2.2. Environment

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▷ EV Charging station should be installed on the incombustible such as concrete; otherwise, hazardous fire may result.

▷ EV Charging station should not be installed in the area that contains explosive gas; otherwise, hazardous blast may result.

▷ Leave no inflammable or explosive substances near the EV Charging station; otherwise, hazardous blast may result.



▷ EV Charging station should be installed in a place with no conductive dust and insulation-destructive gas or vapor.

▷ EV Charging station should be installed in a place with no violent vibration and impact; for good ventilation, mount the charging station vertically.

▷ The installation foundation shall be higher than the ground level, and drainage ditch shall be set around the EV Charging station, otherwise the equipment may be damaged.

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## 2.3. Installation

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Safety protection must be done when installing the EV Charging station.



- ▷ Installation and wiring should be done by personnel with professional qualification, otherwise, hazardous electric shock may result.
- ▷ Make sure input power supply is entirely disconnected before wiring; otherwise, hazardous electric shock may result.
- ▷ PE terminal of the EV Charging station must be grounded securely; otherwise, hazardous electric shock may result.
- ▷ The lead nose of the charging station must be securely attached or there is a risk of damaging the equipment.
- ▷ Leave no metals such as bolts, gaskets into the inside of the EV Charging station; otherwise, hazardous blast and fire may result.



- ▷ Main loop terminal of the EV Charging station should be firmly connected with the wiring ends; otherwise, damage to property may result.
- ▷ Bare parts of wiring ends of electrical cables must be wrapped with insulating tape; otherwise, hazardous fire and property loss may result.

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## 2.4. Operation

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- ▷ Strictly forbidden for minors or persons of restricted capacity to approach the charging station to avoid injury.
- ▷ Forced charging is strictly forbidden when the electric vehicle or charging station fails.

- 
- ▷ It is strictly prohibited to use the charging station when the charging adapter or charging cables are defective, cracked, worn, broken or the charging cables



is exposed. If you find any, please contact the supplier in time.

- ▷ EV can only be charged with the engine off and stationary.



- ▷ Do not charge in rainy and thunderous weather.

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## 2.5. Maintenance



Personnel must always use protective footwear when maintenance work.

Caution ESD to avoid damaging electronic devices, especially to protect microchips on PCBA.



- ▷ Accessory replacement must be done by qualified personnel, thrums or metals are prohibited to be left in the controller; otherwise, hazardous blast and fire may result.



- ▷ After replacing main PCBA, parameters must be adjusted and matched before operation; otherwise, property loss may result.
- ▷ It is recommended that routine safety inspection visits to charging station be conducted at least once a week.
- ▷ Keep the charging connector clean and dry and wipe with a clean, dry cloth if soiled.

### 3. STANDARDS COMPLIANCE

#### 3.1. Charging mode

- Conformed to *EN IEC 61851-1:2019*



Charging mode:

*method for connection of an EV to the supply network to supply energy to the vehicle*

- The Charging mode of M3P EN-series product is Mode 3



*Mode 3 is a method for the connection of an EV to an AC EV supply equipment permanently connected to an AC supply network, with a control pilot function that extends from the AC EV supply equipment to the EV.*

#### 3.2. Charging connection

- According to *EN IEC 61851-1:2019*, M3P EN-series products meet the Case C connection.



Case C:

*Connection of an EV to a supply network utilizing a cable and vehicle connector permanently attached to the EV charging station.*

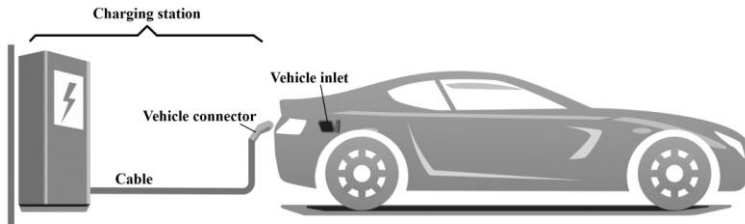


Fig. 3-1 Schematic diagram of CASE C connection

### 3.3. Charging interface

- The charging connector of M3P EN-series products meet IEC 62196-2, Type 2 plug (with charging cable).



**Fig. 3-2 Type 2 plug on M3P EN-series products**

- M3P EN-series products provide a Type 2 female plug with charging cable, it only charging an EV with a Type 2 vehicle inlet.

## 4. PRODUCT INFORMATION

### 4.1. General

Welcome to use AC EV Charging station produced by our company.

- The shape & dimensions of AC EV charging station shown as Fig. 4-1.

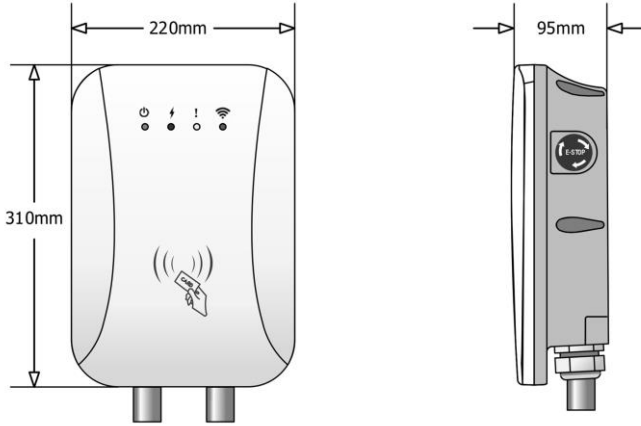


Fig. 4-1 The shape & dimensions of M3P EN-series

- The block diagram of AC EV charging station is shown as Fig. 4-2.

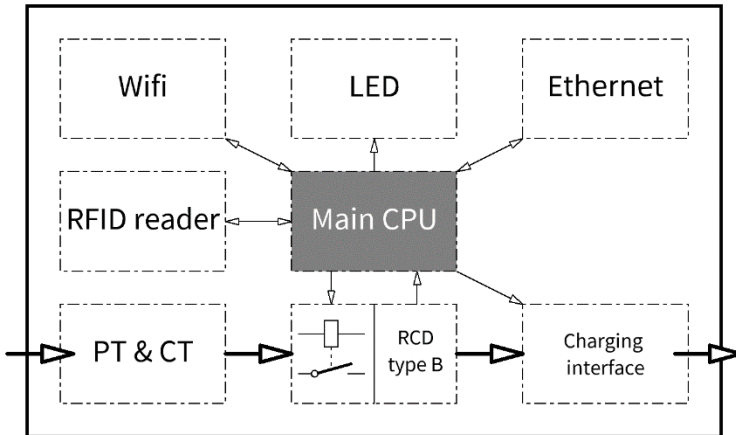
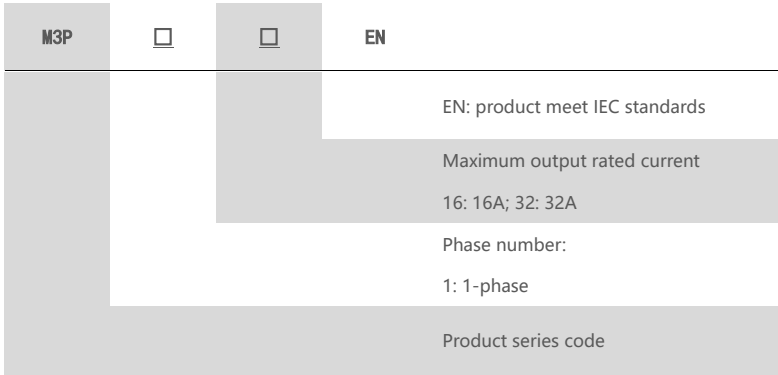


Fig. 4-2 Block diagram of products

- It is widely used in all kinds of household electric vehicle charging, as well as various charging stations, parking lots, community garages and public electric vehicle charging places.

**4.2. Model number definition**

The model number definition of charging station follows the rules as shown in Fig. 4-3.



**Fig. 4-3 Model number definition**

**4.3. Specifications**

**4.3.1. Electrical specifications**

Model Number	M3P116EN	M3P132EN
Rated Voltage	1-phase, 230V, 50/60Hz	
Rated Current	16A	32A
Rated Power	3.5kW (@230V, 1-phase)	7kW (@230V, 1-phase)
Recommended power supply cable	3×4mm <sup>2</sup> ,copper	3×6mm <sup>2</sup> ,copper
MCB recommended	Dedicated circuit, 20A, 2-Pole	Dedicated circuit, 40A, 2-Pole
Input Terminals	L/ N/ PE	
Charging interface	IEC 62196-2, Type 2, 1-phase plug with 5m cable <i>Note: That cord extension sets are not be used</i>	

**4.3.2. Functional description**

Model series	M3P EN-series
Charging Mode	Mode 3
Charging Control	Remote: "APP-controlled" Local: "Plug and charging" or "Card-controlled"
Indicator Lights	4 LED lights; Indicate 4 statuses include standby, charging, fault and network
Networking interface	WiFi (2.4GHz), Ethernet (RJ-45 interface), and support OCPP 1.6J Protocol (Optional)
Safety Protection	Surge protection, over temperature, over/under voltage, over current, leakage fault, ground protection for TN-S or TN-C-S system
RCD Built-in	Yes, Type B RCMU (meet IEC 62955) built-in

**4.3.3. Ambient conditions**

Model series	M3P EN-series
Altitude	≤ 2000m
Storage temperature	-40 ~ 75°C
Operation temperature	-30 ~ 55°C
Relative humidity	≤ 95%RH, no water droplet condensation
Vibration	< 0.5G, no acute vibration and impaction
Installation location	Indoor or outdoor, good ventilation, no flammable, explosive gases

**4.3.4. Mechanical parameters**

Model series	M3P EN-series
Mounting	Wall-mounted or pole-mounted (mounting pole is optional)
Net Weight	≤ 8kg
Dimension	H×W×D = 310mm × 220mm × 95mm
Color & Material	Front cover: White, PC; Back cover: Gray, PC
IP Code	IP65
IK Code	IK10

#### 4. 4. Nameplate

On the wallbox shell, there is a nameplate identifying the model and specification of the charging station, the content is shown as Fig. 4-4.

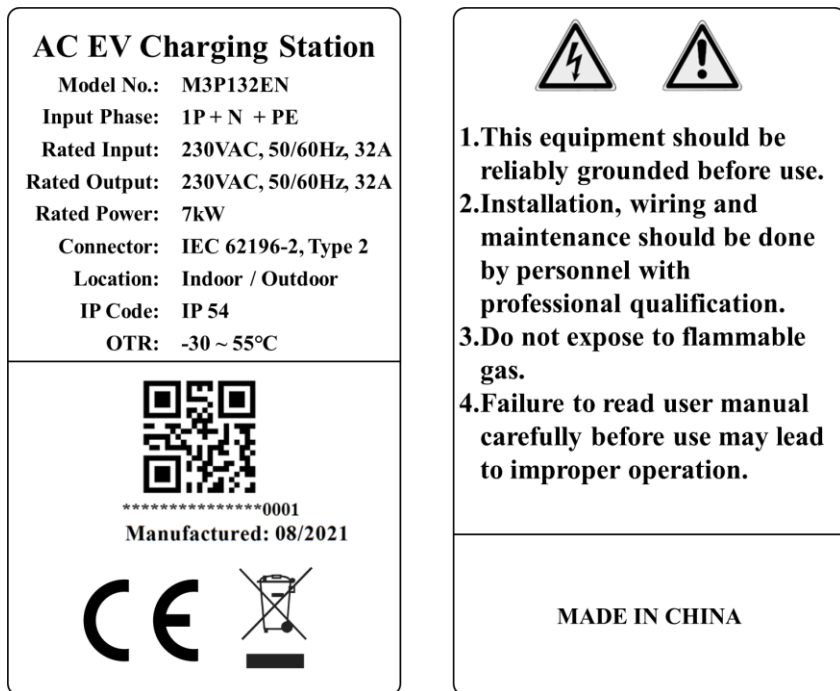


Fig. 4-4 The content of the nameplate



## 5. INSTALLATION

### 5.1. Unpacking

#### 5.1.1. Packing list

Package	Quantity
AC EV Charging Station	1 pc
Empty socket	1 pc
RFID card	2 pcs
Wall-mounting accessories (including A+B+C+D as Fig. 5-1 shown)	1 set
User manual	1 pc
Quality certificate	1 pc

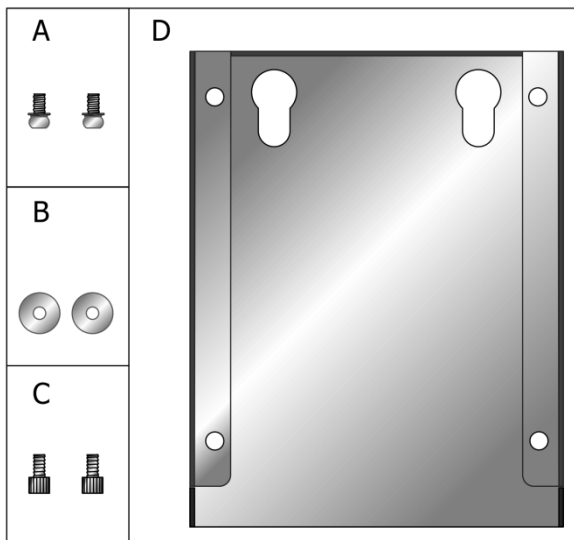


Fig. 5-1 Wall-mounting accessories

#### 5.1.2. Inspection & confirm

When unpacking, please carefully confirm the following points:

- Whether the accessories are missing according to the packing list.
- Whether there is any damage during transportation.
- Whether the model and specification of the machine's nameplate are consistent with the

order requirements.



- ▷ If any damage or missing parts are found, please do not start the machine and contact the supplier as soon as possible.
- ▷ Please keep the packing box and packing materials 1 month for future handling.



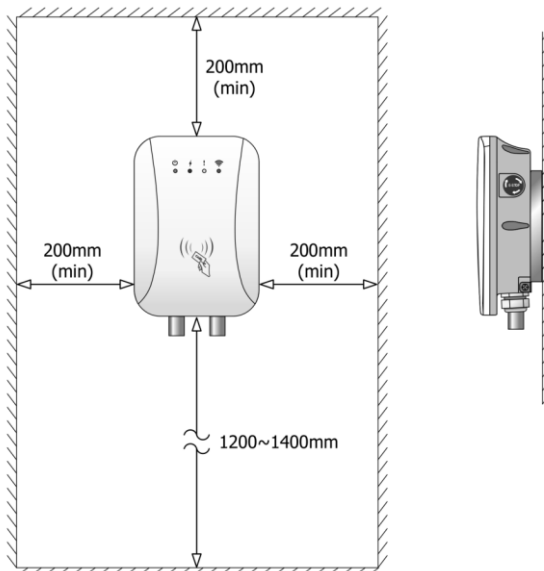
- ▷ The paper packaging is recyclable.

## **5.2. Prepare**

- When transporting or moving the charging station, pay attention to the following points to ensure product safety:






- ▷ This product is electrical equipment. It should be handled with care to avoid violent vibration and impact.
  - ▷ The charging station shall not be transported by dragging the charging connector and the charging cable.
- In order to ensure the long-term stable operation of the product, it is recommended to avoid installing charging stations in extreme weather as far as possible, especially low or high ambient temperature may affect the installation effect due to thermal expansion and cold contraction.
  - The electrical power supply cable must be prepared. Please refer to Clause 4.3.1 to select the power cable.
  - Space requirement: When the charging station is fixed on the wall, the minimum space requirements are shown in Fig. 5-2.





**Fig. 5-2 Minimum space requirements for wall mounting**

- It is suggested that the charging station should be installed in a place with good ventilation, no direct sunlight and shelter from wind and rain. In order to ensure good ventilation condition, you should mount the charging station vertically and leave enough space.
- Tools for installation

Prepare the following tools at least before installing the AC EV charging station.

Sr No.	Tools' Name	Schematic Picture	Main Uses
1	Multimeter		Check the electrical connection and measure the voltage
2	Electric Impact drill		Drill fixing holes in the wall
3	Wrench		Fastening bolt

4	Diagonal plier		Cut the cable
5	Wire stripper		Peeling cables
6	Crimping plier		Pressed cable terminal
7	Cross screwdriver		Fastening screw

### 5.3. Installation steps

Install the Charging station on the wall follow the steps as below.

#### ■ Step 1: Mount the accessories-D

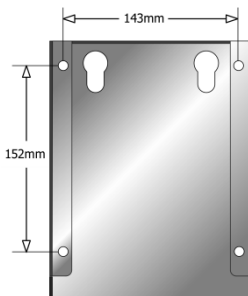
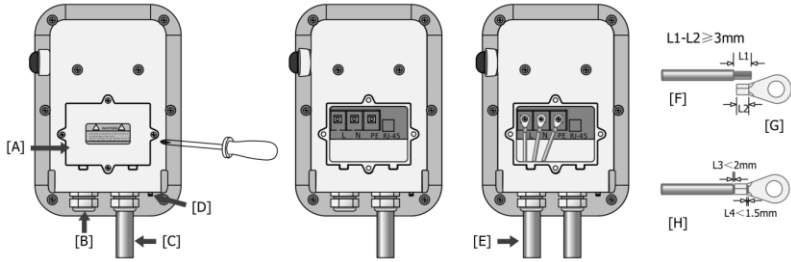


Fig. 5-3 The fixing holes of accessories-D

Drill 4 holes with diameter of 10mm and depth of at least 50mm on the wall with spacing of 143mm × 152mm, and secure the accessories-D to the wall with expansion screws.

#### ■ Step 2: Wiring

As shown in Fig. 5-4, unscrew the total 4 screws to open the terminal cover [A] before wiring.



- |     |                      |     |                            |
|-----|----------------------|-----|----------------------------|
| [A] | Terminal cover       | [B] | Gland of input cable       |
| [C] | Charging cable       | [D] | Gland of network cable     |
| [E] | Input power cable    | [F] | Conductor wire             |
| [G] | Ring tongue terminal | [H] | Conductor with ring tongue |

Fig. 5-4 Wiring

- Remove 10~12 mm of insulation from the prepared wire conductor [F] with wire stripper, and insert the copper conductor into the crimping area of ring tongue terminal [G], press the ring tongue terminal with crimping plier on the conductor as [H].
- Loosen the gland [B], pass the prepared power cable through it.
- Screw the total 3 screws to connect each wire to the input terminals according to the terminal label.

*Note: if you need the Ethernet to connect the CMS, you can pass a network cable with RJ-45 header through the gland [D] and plug it into the network interface.*

- Screw the total 4 screws to close the terminal cover[A].
- Tighten the gland [B]of input cable.

■ **Step3: Fixed the wallbox**

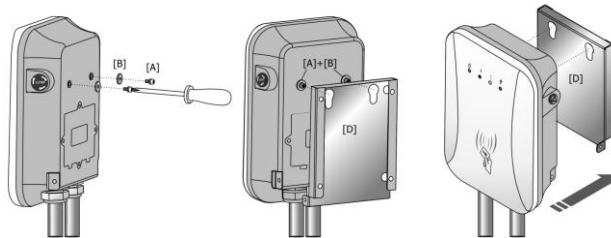


Fig. 5-5 Mounting the wallbox on the accessories-D

As shown in Fig. 5-5, secure mounting accessories[A]+[B] to the charging station; follow the arrow, and hold the wallbox on accessories [D].

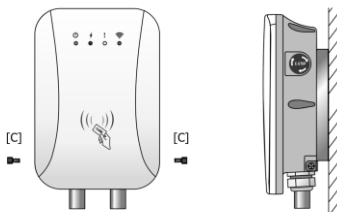


Fig. 5-6 Fixed the wallbox

Tighten the accessories [C] on the left and right ends to fixed the wallbox as Fig.5-6 shown.

#### 5.4. Empty socket


M3P EN-series AC EV charging station config a type 2 charging connector. When the charging station is in standby state, please plug the charging connector in the empty connector socket in order to protect the charging connector. Please use expansion screws to fix this empty socket at a suitable position beside the charging station.



Fig. 5-7 Empty socket

## 6. OPERATION

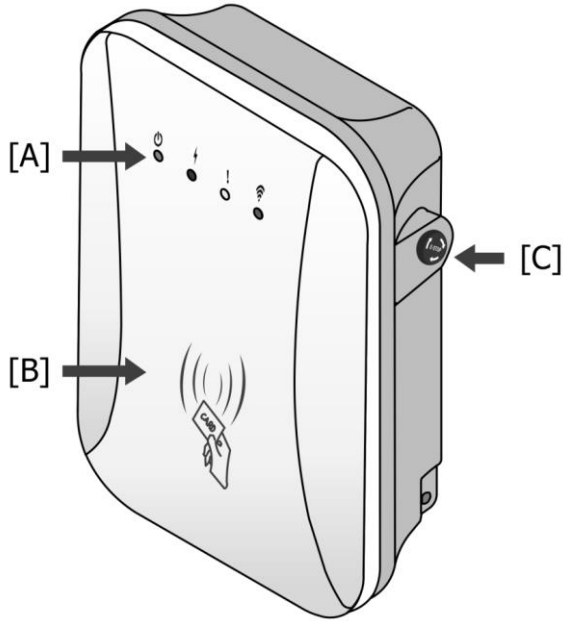
### 6.1. Power on

After the charging station has been installed and confirmed, switch on the power supply. The  indicator light lights up and the charging station switches to standby state.

### 6.2. Human-Machine Interface

#### 6.2.1. Overview

As shown in Fig. 6-1, M3P EN-series product is configured with multiple human-machine interfaces.







- [A] **4 LED lights:** Indicate 4 statuses, include standby, charging, fault, and network
- [B] **Swipecard area:** Swipe the RFID card to charging for Card-controlled charging
- [C] **Emergency stop button:** Used for emergency stop charging.

Fig. 6-1 HMI of AC EV Charging Station

#### 6.2.2. LED indicators

The LED indicators on the panel are used to indicate the status of the charging station and the

various combinations of indicators are described as below.

No.	Icon	Indicator Color	Indicator Status	Connotation
1		Green	ON	Standby status
			Twinkle	Ground fault status
2		Red	ON	connected to an EV
			BLN control	Charging status
3		Yellow	Twinkle	Fault status Twinkle frequency indicates the fault code
4		Blue	OFF	Unconnected network
			ON	Connected to the network
			Slow twinkle	Exchange data with CMS via network.
			Fast twinkle	Configure WiFi network status

### 6.2.3. RFID reader

In general, the charging station is equipped with RFID card reader as standard, and the charging process can be started and stopped by using the RFID card (shown as Fig. 6-2) configured with the host. The special customized card swiping function is not separately described here.

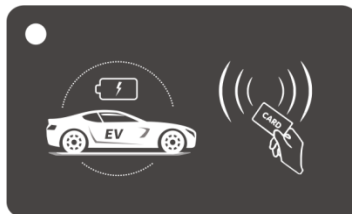


Fig. 6-2 RFID card



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### 6.3. Config WiFi network

- a) Prepare a WiFi router operating at 2.4GHz and an Android or iPhone smart phone. Make sure the charging station and smart phone are in the WiFi coverage area.
- b) Turn on the WiFi router to ensure that the router can connect to the Internet normally.
- c) Turn on the WiFi of the smart phone, connect the smart phone to the router through WiFi and ensure that the phone can access the Internet through the router.
- d) Install the "esptouch" APP on your smart phone.



▷ esptouch for iOS download link:

<https://apps.apple.com/cn/app/espressif-esptouch/id1071176700>



(for iOS)

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▷ esptouch for Android download link:

<https://github.com/EspressifApp/EsptouchForAndroid/releases/download/v1.1.1/esptouch.apk>



(for Android)

- 
- e) Open the esptouch APP, enter the password for the WiFi network name (shown as Fig. 6-3), and keep the phone in the esptouch APP, do not exit.

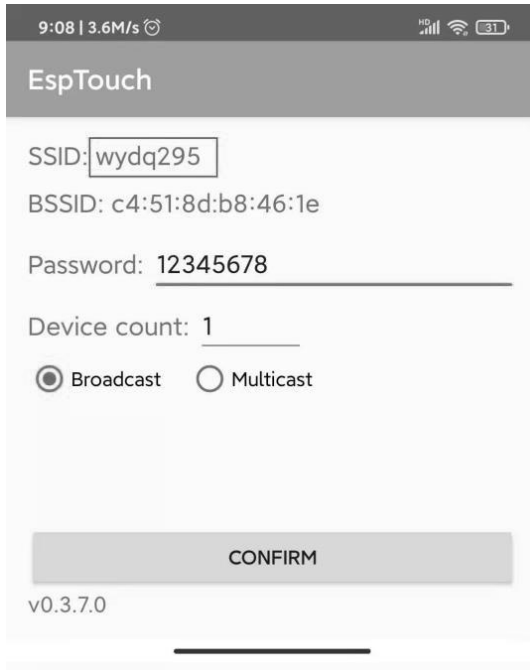




Fig. 6-3 APP interface

- f) Press emergency stop button (Fig. 6-1 [c]) and release 3 times until the  indicator light flashes at 5Hz frequency, and the charging station enters the WiFi network configuration state. Click the "CONFIRM" button on the phone.
- g) Charging station automatically configures WiFi network. When  indicator light is always on, the charging station has completed the WiFi network configure and has been connected to the WiFi router.

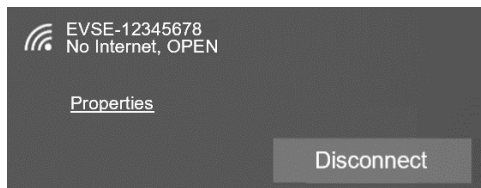
## 6.4. Config the parameters

Taking the configuration of charging station parameters by laptop as an example, it is introduced as follows (the method of setting parameters by mobile phone is similar and will not be repeated):

- Step 1: connect to WiFi hotspot

Keep your laptop in a state where it can connect to WiFi hotspots. Within two minutes after power on, the charging station provides a WiFi hotspot as the access entrance for parameter configuration. Connect a WiFi hotspot with a name is similar to "EVSE-12345678" in the "WiFi network" of the

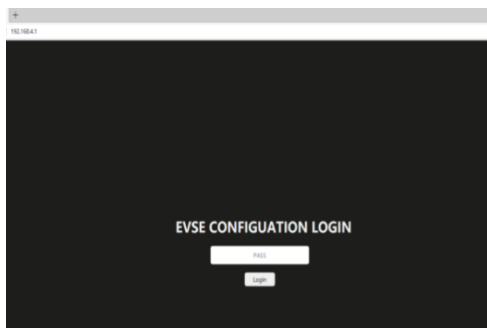
laptop. It is no password to connect the hotspot.



**Fig. 6-4 Connect the WiFi in Windows OS**

- Step 2: login to setting

Enter 192.168.4.1 in the address bar of Google Chrome or Microsoft Edge, you can access the EVSE CONFIGURATION shown in Fig. 6-5, and Microsoft IE cannot access this IP address.



**Fig. 6-5 Login of EVSE CONFIGURATION**

- Step 3: Config your EV Charging station

Enter the correct login password to enter the page shown in Fig. 6-5. Please contact the supplier for the login password and change anew password at the first time. As shown in Fig. 6-6, set the parameters on this page.

## EVSE CONFIGURATION

### User Options

WiFi SSID:  Enter your WiFi name

WiFi password:  Enter your WiFi password

Button controlled:  Select the start charging mode:  
YES- Button-controlled  
NO - Card-controlled or APP-controlled

### Advanced Options

**Only change these if you are qualified to install this product.**

Serial Number:  Serial number displayed on screen  
No need to change it

OCPP server:  URL of your own OCPP server

OCPP version:  Version of OCPP communication  
NO - Not use OCPP communication

OCPP Authpass:  OCPP Auth password

Access point name:  Enter a new name of Wifi hotspot

Alternative server:  Exchange data with supplier backstage  
YES - Permit; NO - Not permit

Charging current:  Set the maximum charging current

Login password:  Change a new login password

Restart button for settings take effect

Change a new login password

Web version: V1.2    Firmware AC\_DUL\_2.22AT

Fig. 6-6 Set parameters to config the EV charging station

After setting, click the "SAVE" button to save the settings, and click the "RESTART" button to restart charging station for settings take effect. Enter your WiFi name and password in the page.

After it takes effect, the charging station can access Internet via your WiFi.

### 6.5. Start Charging

- a) Park your EV into place, turn off, and put the EV under braking.
- b) Pick off the charging connector form empty socket of EV charging station.
- c) As shown in Fig.6-7, plug the charging connector into the AC charging socket of the EV.
- d) For the charging control mode of "Plug and charging" the charging will start automatically after EV connector plug in.



Fig. 6-7 Plug into EV socket

- e) For the charging control mode of “Card-controlled” or “APP-controlled” , you can control charging process by swipe RFID card or APP after charging connector plug in.



- ▷ If you want to scan QR code on the screen to start charging, please download and install the *WE E-Charge* APP on your smart phone.



WE E-Charge

- ▷ For Android phone, scan the QR code on the right, and click “Android Download” button to download and install the APP.



- ▷ For iPhone, search “**WE E-Charge**” in APP Store or scan the QR code on the right to install APP.



- ▷ The user manual of APP please refer to the FAQ of APP.

## 6.6. Normally stop charging

- a) The charging station will automatically stop when the electric vehicle is fully charged.
- b) For the charging control mode of “Plug and charging” , press the unlock button of the remote key of the electric vehicle, the vehicle will stop charging (requires the support of the electric car), the charging will stop automatically.
- c) For the charging control mode of “Card-controlled” , you can stop charging by swipe your RFID card again, when EV is in charging.

- d) For the charging control mode of "APP-controlled", click the stop button on your APP, the charging will stop.
- e) When the charging is end, please unplug the charging connector and plug back to the empty socket of charging station.

### 6.7. Abnormally stop charging

- a) **Emergency stop:** At any time, in case of any emergency (such as fire, smoke, abnormal noise, water inflow, etc.), on the premise of ensuring personal safety, please press the red "Emergency Stop" button of the charging station to stop the charging process.
- b) **Forced fault stop:** A fault stop initiated by the onboard charger of vehicle.
- c) **Automatic fault stop:** A fault stop initiated by the charging station.

## 7. FAULT HANDLING AND MAINTENANCE

### 7.1. Fault Handling

The charging station is automatically protected in the event of the fault. The fault information and handling methods are as follows.

LED indicator information	Fault code	Handling method
All LED are not on	-	<ul style="list-style-type: none"> <li>● Check whether the power supply and distribution are normal;</li> <li>● Check whether the branch breaker is tripped, and close the breaker after troubleshooting;</li> <li>● Check whether the connection is correct, if the cable comes off, should be properly connected to tighten the cable.</li> </ul>

LED indicator information	Fault code	Handling method
<p>! <b>LED flashes:</b></p> <ul style="list-style-type: none"> <li>● 1×slow, 1×fast</li> </ul>	<p><b>Fault code 11:</b></p> <p>CP voltage anomaly</p>	<ul style="list-style-type: none"> <li>● Check the connection of charging connector and EV socket.</li> <li>● Disconnect and reconnect the charging connector.</li> </ul>
<p>! <b>LED flashes:</b></p> <ul style="list-style-type: none"> <li>● 1×slow, 2×fast</li> </ul>	<p><b>Fault code 12:</b></p> <p>Emergency stop</p>	<ul style="list-style-type: none"> <li>● The E-stop button has been pressed.</li> <li>● After troubleshooting, rotary the button clockwise to reset.</li> </ul>
<p>! <b>LED flashes:</b></p> <ul style="list-style-type: none"> <li>● 1×slow, 3×fast</li> </ul>	<p><b>Fault code 13:</b></p> <p>Undervoltage input</p>	<ul style="list-style-type: none"> <li>● Check whether the input cable is reliably connected.</li> <li>● Check whether the input voltage is abnormal.</li> </ul>
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 1×slow, 4×fast</li> </ul>	<p><b>Fault code 14:</b></p> <p>Overvoltage input</p>	<ul style="list-style-type: none"> <li>● Check whether the input cable is connected correctly.</li> <li>● Check whether the input voltage is abnormal.</li> </ul>
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 1×slow, 5×fast</li> </ul>	<p><b>Fault code 15:</b></p> <p>Over-temperature protection</p>	<ul style="list-style-type: none"> <li>● Check whether the charging station is covered or installed in a high temperature environment.</li> </ul>
<p>! <b>LED flashes:</b></p> <ul style="list-style-type: none"> <li>● 1×slow, 6×fast</li> </ul>	<p><b>Fault code 16:</b></p> <p>Metering fault</p>	<ul style="list-style-type: none"> <li>● Power off and restart the device.</li> </ul>
<p>! <b>LED flashes:</b></p> <ul style="list-style-type: none"> <li>● 1×slow, 7×fast</li> </ul>	<p><b>Fault code 17:</b></p> <p>Leakage protection</p>	<ul style="list-style-type: none"> <li>● Check whether the charging connector and its cable are damaged or wet.</li> <li>● Recover after pulling out the adapter.</li> </ul>
<p>! <b>LED flashes:</b></p> <ul style="list-style-type: none"> <li>● 1×slow, 8×fast</li> </ul>	<p><b>Fault code 18:</b></p> <p>Output shortage</p>	<ul style="list-style-type: none"> <li>● Check whether the charging adapter and its cables are damaged or wet.</li> </ul>
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 1×slow, 9×fast</li> </ul>	<p><b>Fault code 19:</b></p> <p>Output overcurrent</p>	<ul style="list-style-type: none"> <li>● Check whether the charging connector is correctly connected.</li> <li>● Check whether the OBC is normal.</li> <li>● Check the set of output current.</li> </ul>

LED indicator information	Fault code	Handling method
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 2×slow, 1×fast</li> </ul>	<p><b>Fault code 21:</b></p> <p><b>EV response timeout</b></p>	<ul style="list-style-type: none"> <li>● Battery of EV is full. Or the charging connector is not properly connected.</li> <li>● Disconnect and reconnect the charging connector.</li> </ul>
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 2×slow, 2×fast</li> </ul>	<p><b>Fault code 22:</b></p> <p>EV not supported</p>	<ul style="list-style-type: none"> <li>● This EV does not meet the IEC standards and cannot be charged.</li> </ul>
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 2×slow, 3×fast</li> </ul>	<p><b>Fault code 23:</b></p> <p>Relay sticking</p>	<ul style="list-style-type: none"> <li>● The device is damaged and needs to be returned to the factory for repair.</li> </ul>
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 2×slow, 4×fast</li> </ul>	<p><b>Fault code 24:</b></p> <ul style="list-style-type: none"> <li>● RCD fault</li> </ul>	<ul style="list-style-type: none"> <li>● The RCD is damaged and needs to be returned to the factory for repair.</li> </ul>
<p>! LED flashes:</p> <ul style="list-style-type: none"> <li>● 2×slow, 5×fast</li> </ul>	<p><b>Fault code 25:</b></p> <p>Ground fault</p>	<ul style="list-style-type: none"> <li>● Charging station is not grounded; input power cable needs to be checked.</li> </ul>

## 7.2. Maintenance

To ensure the long-term stable operation of the equipment, please maintain the equipment regularly (usually every month) according to the operating environment.

- The equipment is maintained by professionals.
- Check whether the equipment is well grounded and safe.
- Check whether there are potential safety hazards around the charging pile, such as whether there are high temperature, corrosion or inflammable and explosive articles close to the charging station.
- Check whether the join point of the input terminal is in good contact and whether there is any abnormality. Check whether other terminal points are loose.



## **WARRANTY AGREEMENT**

1. The scope of warranty refers to the product itself.
2. The warranty period is 12 months. During the warranty period, the company will repair the product free of charge in case of failure or damage (determined by the company's technical personnel) under normal use.
3. The starting time of warranty period is the date of product manufacture.
4. Even in the warranty period, a certain maintenance fee will be charged in case of the following situations.
  - ① Equipment failure caused by not following the user's manual.
  - ② Equipment damage caused by fire, flood, abnormal voltage, etc.
  - ③ Equipment damage caused by using the product for abnormal functions.
  - ④ Equipment damage caused by foreign matter entering.
  - ⑤ Equipment damage caused by other human external factors.
5. The service fee shall be calculated according to the actual cost. If there is another contract, the contract shall prevail.
6. Please be sure to keep this card and show it to the maintenance personnel during the warranty period.
7. If you have any questions, please contact the agent or our company directly.

**After sales service center**

## **DECLARATION OF CONFORMITY(DOC)**

We, declare that the construction of the device described in the following complies with the relevant stated below.

Relevant EC directives: Directive 2014/53/EU on radio equipment and telecommunications terminal equipment (RED Directive 2014/53/EU).

Harmonized EN basic and engineering standards: IEC 61851-21-2, EN 301489-1/-17, EN 300328, EN 300330, EN 61000-3-11/-12.



## COMPLIANCE STATEMENT OF WEEE

This product cannot be discarded at will when it is abandoned. It must be collected separately for special treatment.



