

ALPHAMAX

EV CHARGER



User and Installation
Manual

Model No: 20320, 20321

VORSPRUNG[®]

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Safety Information






This document contains important instructions and warnings that must be followed when installing and maintaining the EV Charger.

Installation of this Unit must be Performed by a Certified Engineer.




Warnings

-  Read this entire mandatory document before installing or using the EV charger.
-  Do not allow children to operate the EV charger unsupervised.
-  The BCP series EV Charger must be grounded through a permanent wiring system or an equipment grounding conductor.
-  Do not install or use the EV Charger near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.
-  Use the EV Charger only within the specified operating parameters.
-  Never spray water or any other liquid directly at the wall mounted EV Charger. Never spray any liquid onto the charger handle or submerge the charger handle in liquid. Store the charger handle above the ground to prevent unnecessary exposure to contamination or moisture.
-  Stop using and do not use the EV Charger if it is defective, appears cracked, frayed, broken, or otherwise damaged, or fails to operate.
-  Do not attempt to disassemble, repair, tamper with, or modify the EV Charger. The EV Charger is not user serviceable. Contact us for any repairs or modification.
-  Handle with care when transporting the EV charger. Do not subject the EV charger to strong force or impact, and avoid pulling, twisting, tangling, dragging or stepping on the unit, as this may cause damage to the charger or its components.
-  Do not touch the EV Charger's end terminals with sharp metallic objects, such as wire, tools, blades, or needles.
-  Do not forcefully fold or apply pressure to any part of the EV Charger or damage it with any sharp objects.
-  Do not insert any foreign objects into any part of the EV Charger.
-  Use of the EV Charger may affect or impair the operation of any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator. Check with your electronic device manufacturer concerning the effects that charging may have on such electronic devices before using the EV Charger.

Cautions

-  Do not use private power generators as a power source for charging.
-  Incorrect installation and testing of the EV Charger could potentially damage either the vehicle's Battery and/or the EV Charger itself. Any resulting damage is excluded from Vorsprung Vehicle Limited Warranty and the EV Charger Limited Warranty.
-  Do not operate the EV Charger in temperatures outside its operating range of -25°C to +55°C.
-  The use of conversion plugs/sockets is strictly prohibited.
-  The use of extension cords is strictly prohibited.

Notes

-  Ensure that the EV Charger's charging cable is positioned so it will not be stepped on, driven over, tripped on, or subjected to damage or any tension.
-  Do not use cleaning solvents to clean any of the EV Charger's components. The outside of the EV Charger, the charging cable, and the connector end of the charging cable should be periodically wiped with a clean dry cloth to remove accumulation of dirt and dust.
-  Be careful not to damage the circuit board when removing the power entry.

Product Introduction

Product Appearance



Vorsprung Alpha Max
EV Charger 7kW
Type 2 Tethered

1. Emergency Button Switch
(When the button is pressed,
the EV Charger will stop. Rotate
the button pop-up to reset.)
2. Function test button
(For WPS connection, and
leakage test.)
3. RFID
4. LED light
5. Type 2, 5m Charging Gun
6. Type 2 socket



Vorsprung Alpha Max
EV Charger 7kW
Untethered

Parameters & Features



	Type 2 Tethered	Untethered
Maximum Power	7.4KW	
Input voltage/Output voltage	230V AC Single-Phase	
Input frequency	50Hz/60Hz	
Rate Charging Current	6-32A	
Standby Power Consumption	2W	
Operating Temperature	-25°C ~ 55°C	
Storage temperature	-40°C ~ 85°C	
Operating Humidity	5%-95%	
Operating Altitude	≤2000m	
Cable Length	5m	N/A
Meter	Metering Chip	
Display	LED Lights	
Charger Dimension	380mm (H) x 169 mm (W) x 151 mm (D)	
Gross Weight	7kg	5kg
Safety Protection	IP Protection, Leakage Protection, Over Current Protection, Ground Protection, Over Voltage Protection, Under Voltage Protection, Contactor Adhesion Protection, Neutral and Live Wire Reverse Connection Protection, Over Temperature Protection, Abnormal CP Signal Protection, Lightning Protection	
IP Protection	IP65	IP55
Leakage Detection	TYPE A+DC6mA leakage sensor built-in	
Temperature Protection	The charger automatically stops operating if the internal temperature exceeds the safe threshold	
Tamper Protection	If the charger housing is opened, charging will automatically stop and an audible alarm will be triggered	



Leakage Protection



Over Current Protection



Ground Protection



Over Voltage Protection



Under Voltage Protection



Contactor Adhesion Protection



Neutral and Live Wire Reverse Connection Protection



Over Temperature Protection



CP Signal Abnormal Protection



Lightning Protection

Equipped with comprehensive safety protections, the charger will automatically power off once the vehicle is fully charged, helping to protect the car's battery and extend its lifespan.



Ethernet and Wi-Fi connectivity
with WPC (Wi-Fi Protected Setup)
for faster connection



Remote App
Controls the charger remotely
and can access charging history

Wi-Fi

Operating Frequency Range	2412 - 2484MHz
Wi-Fi Protocols-	IEEE 802.11 b/g/n
Channels	14
TX Power	18.5~20.5dBm
EIRP	0.459
TX Bandwidth	20MHz/40MHz
Modulation Type	OFDM & DSSS
Transmitting Duty Cycle	10%

Bluetooth BLE

Sensitivity @30.8% PER	-93 dbm
Co-channel C/I	+10dB
RF Power Control Range	-12 ~ 9dbm

Accessories List

①



EV charger

X1

②



Mounting bracket

X1

②



RFID card

X2

④



M32*1.5 cable gland

X1

⑤



M6*8 screws

X4

⑥



8*40 socket head
screws and anchorings

X6

⑦



Position template

X1

⑧



Plastic lifter

X1

Card type supported by RFID: RF card ISO14443 TypeA, MIFARE® ONE (MF1) card,
with thread-write frequency of 13.56MHz±7K.

Installation Instructions

Warnings

- ⚠ The earth wire must be properly connected for the EV charger to operate correctly. Without proper grounding, the charger will not function.
- ⚠ In situations where an earth connection is unavailable, the EV charger can be configured via the app to disable earth detection. However, this

will reduce the level of leakage protection and is not recommended unless absolutely necessary.

- ⚠ This series of AC EV charger must be grounded via a permanent electrical system or equipment grounding conductor.

Note: Please consult your local electrician for the AC EV charger current.

1. Installation Considerations

Installation of the wall charger requires that you must:

- Use a metal, flame-retardant conduit.
- Install an appropriate circuit breaker.
- Use cable glands to maintain the housing's waterproof seal.

2. Minimum Installation Requirements

- Calculate the existing electrical load to determine the maximum operating current.
- Calculate the distance to ensure minimal voltage drop.
- Obtain any necessary permits from the local authority that has jurisdiction and confirm that the follow-up inspection has been scheduled by a qualified electrician after the installation is complete.
- Use only copper conductors.
- Use copper wire that meets the specifications of local wiring regulations. The selected cable must be capable of withstanding continuous loads of up to 40A at all times. The selected circuit protection device must incorporate an appropriate wall-mounted residual current device (RCD) and corresponding electrical load over current protection.

3. Position

- Ensure that the parking position is within range of the charging cable.
- There is enough clearance for the charging cable to wrap around and the charging handle can be comfortably positioned on the side of base.
- If installed in an enclosed garage, choose to install on the side of the EV charger slot.
- For outdoor installations, waterproof protection is recommended but not mandatory.
- Install in a well-ventilated space. Avoid installation in enclosed boxes or close to high power appliances.

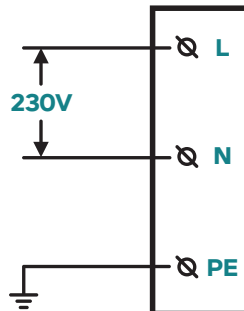
4. Height

- Maximum height (indoor and outdoor): 60 inches (1.5 m)
- Recommended height: 47 in (~1.2 m)
- Minimum outdoor height: 24 in (0.6 m)
- Minimum interior height: 18 inches (0.45 m)

5. Power Supply

230V single-phase power supply

For a single-phase EV charger, a single-phase wire (L), Neutral and earth wire must be connected. The phase voltage between the Line and Neutral wires should be 230V



Step-by-step Installation

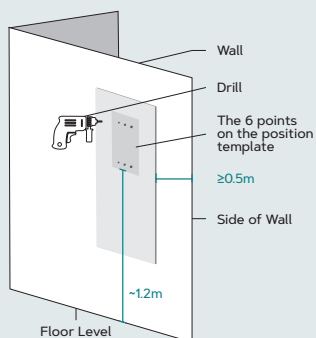
- Bottom Entry Wiring

1 Position

The bottom of the positioning template ⑦ must be at least 1.2 meters from the ground and at least 0.5 meters from any edge of a wall.

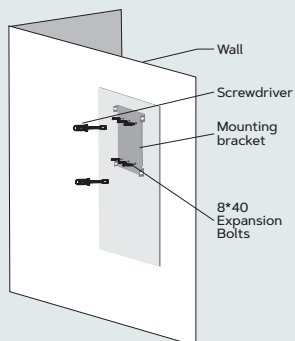
Drilling Pilot Holes

Drill pilot holes according to the instructions on the positioning template.



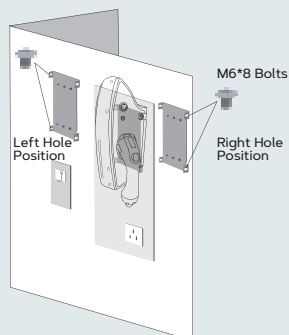
2 Install the Mounting Bracket

Put the 8*40 Socket head screws' anchoring into the holes, and use a screwdriver make the 6pcs 8*40 Socket head screws to fix the Mounting bracket on the wall.



3 Install the EV Charger to the Mounting Bracket

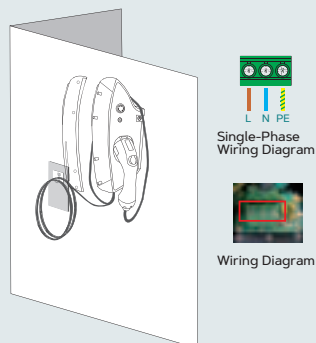
- Align the side hole of EV charger to the panel's side holes.
- Use the 4pcs M6*8 screws to fix the EV charger to the mounting plate as picture shows (Screws torque 1.5-2.0 Nm).



4 Wiring

- As the picture shows, use a screwdriver to loosen the screws on the EV charger cover.
- Wire the cable according to the terminal. (Screws torque 1.8-2.2 Nm).

The installer must ensure correct earthing to meet local regulations. Grounding must be installed at the power source and not at the cable entry to the EV Charger.



Step-by-step Installation

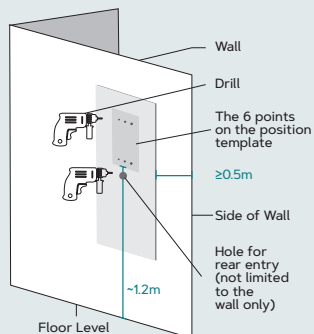
- Rear Entry Wiring

1 Position

The bottom of the positioning template ⑦ must be at least 1.2 meters from the ground and at least 0.5 meters from any edge of a wall.

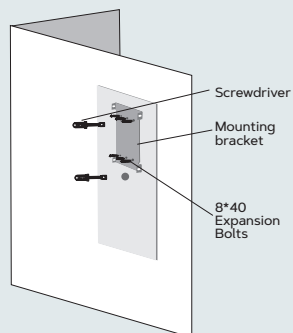
Drilling Pilot Holes

Drill pilot holes according to the instructions on the positioning template.



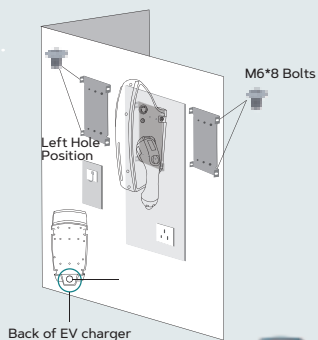
2 Install the Mounting Bracket

Put the 8*40 Socket head screws' anchoring into the holes, and use a screwdriver make the 6pcs 8*40 Socket head screws to fix the Mounting bracket on the wall.



3 Install the EV Charger to the Mounting Bracket

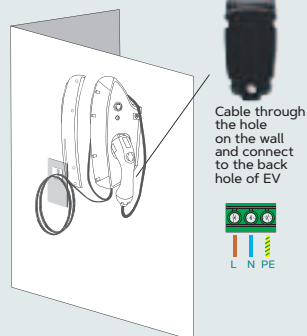
- Find the hole for cut out on the back of EV charger.
- Use the 4pcs M6*8 screws to fix the EV charger to the mounting plate as picture shows (Screws torque 1.5-2.0 Nm).



4 Wiring

- As the picture shows, use a screwdriver to loosen the screws on the EV charger cover.
- Wire the cable according to the terminal. (Screws torque 1.8-2.2 Nm).

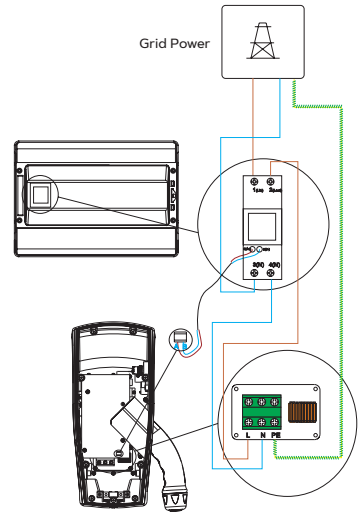
The installer must ensure correct earthing to meet local regulations. Grounding must be installed at the power source and not at the cable entry to the EV Charger.



External Meter Installation

Warnings

- ⚠ Do not connect the power cord before reading and fully understanding all the concepts introduced in this section. If you are not sure whether the type of power supply on the repair panel is available, please consult an electrician for assistance.
- ⚠ Be careful of electric shock! Before use, use a voltmeter to confirm that there is no voltage on the power supply line or terminal to ensure that the power has been cut off.
- ⚠ Disconnect the power supply at home, and find the neutral wire and the live wire at the entrance to the house.
- ⚠ According to the wiring figure, the live wire and the neutral wire are respectively connected to the power grid through cables that support a current of more than 32A, so that the connection between the power meter and the power grid is completed.
- ⚠ According to the wiring figure, connect the live wire and neutral wire to the interfaces be reserved in the charger respectively through the cables that support more than 32A, so that the meter is connected.
- ⚠ The AB interfaces on the meter needs to be connected to the AB interfaces in the charger PCB Via a cable that supports 485 communication.
- ⚠ The ground wire of the grid needs to be connected to the ground wire interface which is reserved in charger.
- ⚠ The meter has been configured to fit the charger by default, please do not change the configuration.
- ⚠ Please contact us for technology support if you are going to install meters.



Single-Phase

Set the Operating Current

After installation, users can set the maximum operating current of the EV charger in the APP. Please refer to APP manual for details.

Reinstall the Sealing Cover and Turn on Power

1



Use a screwdriver to lightly secure the sealing cover by installing only the top screws at (1.5-2.0Nm)torque.

2



After sealing cover is fitted, put the facia on and fix it on the sealing cover.

3



If you need to open the front cover and change the internal settings, please use the plastic lifter carefully open the cover using the plastic lifter along the edges.

We recommend installing a circuit breaker 40A/2P 30MA

Operating instruction

Buttons On Charger

Emergency Stop Button	
Press	Stops charging
Button ejecting	Fixing faults
Button ejected	In operating

Function Test Button	
Press	Leakage test
Long Press	WPS mode works, search for WPS and pair.

Reset the charger password

The reset button is located on the PCB. Long press for 5s to reset the charger password (Wi-Fi Access Point Password and OCPP configuration Password).

Restore to default settings

To restore the charger to default settings, press the emergency stop button and long press the reset button for 20s.








OCPP configuration

Press emergency button while powering on the EV charger. Then start the OCPP configuration process.









Buzzer






Swipe the RFID card to start the authentication successfully	One Short Beep
Swipe the RFID card to stop the authentication successfully	One Short Beep
RFID card authentication failed	Five Short Beeps
Enter server configuration mode	One Long Beep
Server parameters are configured successfully	One Long Beep
Server parameter configuration failed	Two Short Beeps
Leakage test in progress	One Long Beep

LED Lights Display

Normal Status				
LED Indicator	LED Status	Status Description	Potential Cause	Solution
	Lights OFF	No power supply	No power	Check power source
	The green lights light up in sequence from top to bottom, then the yellow and red lights light up in sequence until the first green light blinks	Charger Power ON self test		
	The first green light fast blinking (ON for 0.25 seconds, OFF for 0.25 seconds)	Enter WPS configuration	In WPS configuration status	Recheck configuration
	The first green light slow blinking (ON for 1 second, OFF for 1 second)	Network is not connected	Wi-Fi connection failure or wrong password	<ol style="list-style-type: none"> 1. WPA 2_Enterprise is not available for charger 2. Ensure password is correct 3. Restart the APP
	The first light is in the green breathing light state	Standby in the default state		
	The first light is in the blue breathing light state	Standby in OCPP mode (Wi-Fi, Ethernet)		
	The first green and the last green lights slow blinking. (ON for 1 second, OFF for 1 second)	The charger is reserved		

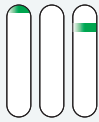
Normal Status				
LED Indicator	LED Status	Status Description	Potential Cause	Solution
	The 1-6 green lights ON, brightness decreases from top to bottom	Charger authorized, waiting for the Charging Connector plug in		
	Green lights up and down	The Charging Connector is plugged in, waiting for RFID card authentication		
	Green lights end in the middle	Waiting for the car start to charge		
	Green lights extend from the middle to the ends	Charging		
	All green lights ON	Charging finished		
	Yellow lights flashing	Charger is remotely disabled or not registered	Charger is not configured	Configure the charger

Fault Status				
LED Indicator	LED Status	Status Description	Potential Cause	Solution
	All lights strobe (4 times per second)	Contactor failure	Contactor adhesion or tripping	Check whether the vehicle charging module is normal
	Yellow lights ON	Emergency stop protection	Emergency stop button is pressed	Rotate the emergency stop button Pop-up reset
	Red lights ON	Grounding abnormality	The ground wire is not wired or the neutral wire is reversed	Check whether the grid connection and charger wiring is correct
	Red light once	Over Voltage	Power supply has short circuit or unstable	1. Check the power supply 2. Check the wire of power supply
	Red light twice	Under Voltage	Power supply voltage is insufficient	1. Check the power supply 2. Check the wire of power supply
	Red light thrice	Leakage fault	Leakage happens	1. Reset with emergency stop button 2. Check the charger connector or vehicle for leakage
	Red light flashes continuously (Once per second)	Over current	Short circuit may happen	Call for professional
	Red light flashes (Quartic per second)	Over temperature alarm	High temperature	1. Wait for charger cooling 2. Ensure the wiring of charger terminal is not loose

Fault Status				
LED Indicator	LED Status	Status Description	Potential Cause	Solution
	Alternating red and yellow continuously Red for 0.5 seconds followed by yellow for 0.5 seconds	Abnormal CP signal	The connection between the charger and the vehicle is loose	1. Check if the connector is with water leakage in 2. Ensure the connector is matched with EV
	Red and yellow lights flash once	Abnormal CC signal	The connection between the charger and the vehicle is loose	Check whether the charger connector is firmly inserted
	Yellow light ON triple	LED board is offline	LED board is fault or loose	Open the charger cover and check whether the light board cable is connected correctly and firmly
	Yellow light ON once, red light ON once	DLB is offline	The DLB connection is loose	Check the connection between DLB box and charger
	Yellow light ON DLB abnormal once, red light ON twice	DLB abnormal	The connection between the DLB box and the CT is loose or the CT is not clamped	1. Check the CT of the DLB box is in the correct position 2. Check whether the DLB box CT is firmly clamped 3. Check if the phase sequence of the DLB box CT is correct 4. Check if the connection between the DLB box CT and the DLB box is firm

Firmware Update via OCPP Server

The server sends a firmware upgrade command to the EV charger in the background, and when the set time comes, the firmware starts to download.



The first and second green lights flash alternately

or other operating status

Download firmware



Green light circularly flows from top to bottom

or other operating status



If the EV charger is charging, install the firmware after the charging is completed.



Extend from the middle to the ends



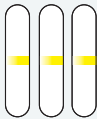
End charging



All green lights on



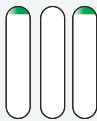
Install firmware



The yellow light lights up three times



The update is complete, the charger is ready to reconnect to the network.



Green light No. 1 flashes slowly (on for 1 second, off for 1 second).

Network connection is successful



Green Light No. 1 breathing

or other operating status

Network Configuration

Before You Start



Use 2.4 GHz Wi-Fi
(not 5 GHz)



Keep your Wi-Fi name
& password ready



Switch off mobile data
while setting up



Make sure your car is NOT
plugged in

Keep the charger away from microwaves, cordless phones, Bluetooth speakers, and other strong Wi-Fi signals.

WPS Connection Method

Ready for WPS connection



The EV charger is in offline mode by default, please confirm whether it is in WPS connection mode

NO



Enter the WEB configuration mode and set the WiFi WPS connection.

NetWork setting

- ☒ Wi-Fi WPS
- ☐ Wi-Fi Custom
- ☐ Ethernet
- ☐ Offline (Plug and Play)
- ☐ Offline (RFID)

Note: If "Wi-Fi WPS" is selected, Wi-Fi information is not required to enter.

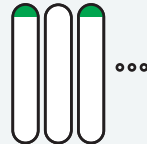
YES



Press and hold the function test button for 5s until you hear a beep from the EV charger



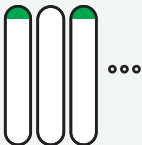
The first green light flashes slowly (ON for 1 second, OFF for 1 second)



YES



Start the WPS function of the router within 120 seconds.



WPS matching
The first green light flashes quickly (ON for 0.25 seconds, OFF for 0.25 seconds)

WPS pairing times out



WPS pairing is successful



The first green light flashes.

Connect Charger to Wi-Fi

- 1 **Disconnect the charger from power, press the red Emergency Stop, then reconnect power.**

The charger will beep and the yellow light will flash. This means it is in configuration mode.

Do not twist the Emergency Stop button until configuration is complete. Doing so will exit the mode.



- 2 On your phone, tablet, or laptop, go to your Wi-Fi settings and **find the network called EVSE-XXXXXXX** (where XXXXXXX is your charger's factory number).

Connect using the default password: **12345678**.

- 3 Open a web browser and type: **192.168.1.1**

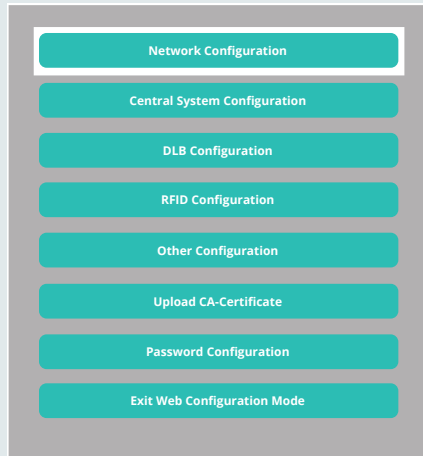


Log in using:

Username: **admin** Password: **12345678**



In the Configuration Directory Page select **Network Configuration**.



Details of each configuration item in the Configuration Directory Page:

Configuration Item	Details of Configuration Item
Open The Network Configuration Interface	NetWork setting, Wi-Fi Config
Open The Central System Configuration Interface	Security, Server, HTTP Basic Authentication, Custom Vendor Info
Open The DLB Configuration Interface	General, Normal DLB, Solar DLB, DLB on cloud
Open The RFID Configuration Interface	General, RFID Unique Config, Reader mode Config

Configuration Item	Details of Configuration Item
Open The Other Configuration Interface	Parameter configuration, Ground Fault Detection, External Meter Enable, Dry Contact Enable, Authorization Cache, Emergency Stop Button, BLE Reset Button
CA certificate upload	It is suggested to upload the CA certificate of OCPP server to EV charger, which can better ensure the network safety.
Open The Password Configuration Interface	Change Password
Exit Web Configuration mode	Exit Web Configuration mode

4 Select **Wi-Fi Custom** mode.

- ☐ Wi-Fi WPS
- ☒ Wi-Fi Custom
- ☐ Ethernet
- ☐ Offline (Plug and Play)
- ☐ Offline (RFID)

Scroll down to Wi-Fi Config and enter your **Wi-Fi SSID** (network name) and **password**.

Wi-Fi SSID

Wi-Fi Password

Click **SAVE** - the charger will beep once.

Network setup item details

Configuration Item	Details of Configuration Item	Details of Configuration Item
Wi-Fi WPS	Wi-Fi WPS means that the terminal can connect to Wi-Fi via wps. WPS, a wireless encryption authentication method, is used to simplify the security setup and network management of Wi-Fi wireless. Instead of entering the wireless network password, the terminal can connect wirelessly to the router by pressing the WPS button directly	
Wi-Fi Custom	Connect to Wi-Fi by entering the wireless network name and password.	Wi-Fi SSID Wi-Fi Password
Ethernet	Connect the network cable into the Ethernet RJ45 port of the EV charger for networking.	
Offline (Plug and Play)	With this option enabled, the OCPP EV charger will be disconnected from the OCPP platform. It can be used as an unsmart EV charger with the plug-and-charge mode.	
Offline (RFID)	With this option enabled, the OCPP EV charger will be disconnected from the OCPP platform. It can be used as an unsmart EV charger with the RFID card swiped charging mode.	RFID Unique RFID Unique ID

- 5** Return to the main screen of the configuration page.
Click **Exit Web Configuration Mode** – the charger will beep once.

The charger will now attempt to connect to the server.



If successful:
the first green light
will flash



If unsuccessful:
re-check your Wi-Fi
and server details

Once the green light flashes, twist the Emergency Stop button to release it.

Your charger is now connected to Wi-Fi.

If your charger is far from the router, use a **Wi-Fi extender** or mesh system to improve signal.

Connect Charger to Ethernet

If you want the EV charger to be networked via Ethernet, you will need to connect a network cable to the Ethernet RJ45 port of the EV charger and then configure the network according to the following steps:

- 1** Select **Ethernet** mode.

- ☐ Wi-Fi WPS
- ☐ Wi-Fi Custom
- ☒ Ethernet
- ☐ Offline (Plug and Play)
- ☐ Offline (RFID)

- 2** By default, the IP Config of an EV charger is a **Dynamic IP (DHCP)** configuration, i.e. the server automatically assigns an IP address to the internal network or to the ISP. If you need to set a fixed IP address to access the Internet, you need to select **Static IP** Config and fill in the appropriate Static IP, Gateway and Netmask, otherwise you can leave it as default..

Click **SAVE** to exit the Network Configuration interface.

☐ Static IP

☒ DHCP

Static IP

0.0.0.0

Gateway

0.0.0.0

Netmask

0.0.0.0

RFID Configuration

If you have selected the Plug and play mode when doing the network setup, RFID configuration is not required. Please ignore this step, otherwise please complete RFID configuration.

- 1** Select **RFID** mode.

- 2** **General Setting.**

In this setting, you can set the RFID card to be used only when the charger is offline or at any time.

☐ RFID is only used offline

☒ RFID can be used at any time

Description of the general setting items for RFID configuration:

Configuration Item	Details of Configuration Item
RFID is only used offline	When you enable this configuration, the online EV charger will disable the use of RFID to start charging. Only the function of local authentication is available when the network is abnormal and the EV charger is offline.
RFID can be used at any time	When this configuration is enabled, you can swipe the RFID card to charge at any time.

3 RFID Unique Settings.

In this configuration, you can choose whether or not to enable the RFID Unique configuration. If so, you will need to fill in the corresponding RFID Unique ID.

Example: If your IC card number is "9E46BA0D", you need to configure Unique ID as "9E46BA0D".

- ☒ RFID Unique Enable
☐ RFID Unique Unable

RFID Unique ID
9E46BA0D

Description of each configuration item for RFID unique configuration:

Configuration Item	Details of Configuration Item	Max. Length
RFID Unique Enable/ RFID Unique Unable	Select offline swiping card mode in the network configuration page. After this mode has been activated, you can start charging in the permanently offline mode with the set card.	
RFID Unique ID	Card Number Configuration	20

4 RFID Reader Mode Settings.

This configuration allows you to set the reader mode of the charger, including RFID UID mode, RFID Custom mode and RFID Manufacturer mode. If you select RFID Custom mode, you will need to enter the card number storage address and set the RFID Custom Password in the RFID Custom Block.

- ☒ RFID UID Mode
☐ RFID Custom Mode
☐ RFID Manufacturer Mode

RFID Custom Block
0

RFID Custom Password

Description of configuration items for reader mode configuration:

Configuration Item	Details of Configuration Item	Max. Length
RFID UID Mode	IC card manufacturer offers its own physical card numbers. If the card is the M1 card, EV charger can recognize its physical card number.	
RFID Custom Mode	In custom mode, the EV charger will read the IC card number based on the encryption method configured by the user.	
RFID Manufacturer Mode	In the default reading card mode, the EV charger only recognizes IC cards configured by the writing tool, and IC card offered by will have their card numbers configured by in this way	
RFID Custom Block:	Card Number Storage Address	0-63
RFID Custom Password	Card PIN must be 12 characters	0-9, a-f, A-F

Click **SAVE** to exit the RFID Configuration interface.

Other configuration

1 Select **Other Configuration** mode.

2 Parameter configuration Settings.

In this configuration you can set the maximum current of the one connector, the Meter Value Sample Interval and the ConnectionTime Out setting.

The maximum current of the one connector
25

Meter Value Sample Interval
60

Connection Time Out
120

Description of configuration items for parameter configuration:

Configuration Item	Details of Configuration Item
The maximum current of the one connector	This item sets the maximum allowable charging current for a single connector.
Meter Value Sample Interval	Sets the interval for Meter report logs. The minimum setting time is 10 seconds.
ConnectionTime Out	Timeout setting for swiping the card when the connector is unplugged. When it is set to 0, swiping the card is forbidden in the condition that the connector is unplugged.

3 Ground Fault Detection Settings.

When the charger encounters a ground failure or poor grounding, which the function of the ground fault detection is to report a ground disconnection warning, which triggers ground protection. Thus, it prevents the charger from charging the vehicle.

- ☒ Enable
☐ Unable

Description of ground fault detection options:

Configuration Item	Details of Configuration Item
Ground Fault Detection Enable / Unable	Ground detection function can be configured according to actual requirements

4 External Meter Settings.

If this configuration is enabled, the charger will use the data from the external meter as its own metering data. Turn this on if an external meter is already installed.

☐ Enable

☒ Unable

NOTE: The brand and type of external meter used for the charger should be specified by the manufacturer, and it is recommended that the user only change this configuration on the first installation.

Description of external meter enablement options:

Configuration Item	Details of Configuration Item
Use External Meter Enable/Unable	When this configuration item is enabled, the EV charger uses the data from the external meter as its own metering data. It should be noted that, the brand and type of used meter should be specified by the manufacturer. It is recommended that the user only changes this configuration item on the first installation. In addition, due to the same hardware interface the DLB and the external meter use, either external meter or DLB function can be enabled at the same time.

5 Dry Contact Settings.

If this configuration is enabled, the charger will determine if the charger is in a period where charging is allowed based on the status of the dry contacts.

☐ Enable

☒ Unable

Description of dry contact enable options:

Configuration Item	Details of Configuration Item
Dry Contact Enable/ Dry Contact Unable	Dry Contact is an optocoupler isolated input interface. When this function is enabled, the EV charger will determine whether or not it is in the allowable charging period based on the status of this interface.

5 Authorisation Cache Setting

If this configuration is enabled, the card will have a cache record and the charger can still be used for charging for a certain period of time when the server is unexpectedly offline.

☒ Enable

☐ Unable

Description of cache licensing options:

Configuration Item	Details of Configuration Item
Authorization Cache Enable/ Authorization Cache Unable	If this configuration is enabled, the card will have a cache record. Therefore, when the server is unexpectedly offline, the card can be swiped to start charging. (there is a term of validity). When the server is restored, the data will be automatically uploaded for deducting the charging consumption, etc.

6 Emergency Stop Button Settings.

The user can choose to enable or not enable the emergency stop button. When the user chooses to not enable it, the emergency stop of EV charger by emergency stop button will be disabled.

- ☒ Enable
- ☐ Unable

7 BLE Reset Button settings.

The user can choose to enable or not enable the BLE reset button. When the user chooses to not enable it, the BLE reset by the emergency stop button and the function test button will be disabled.

- ☒ Enable
- ☐ Unable

Click **SAVE** to exit the Other Configuration interface.

Upload CA-Certificate

It is suggested to upload the CA certificate of OCPP server to EV charger, which can better ensure the network safety.

home-evocpp-co...

Choose File

UPLOAD CA

CLEAR CA

Password Configuration

1 Select **Password Configuration** mode.

2 You can change the Wi-Fi password of charger on the password configuration interface. If you need to change the Wi-Fi password of charger, you must enter the Wi-Fi password you are currently using in Old Password, then enter the new password in New Password, and repeat the new password in New Password Again for confirmation

Old Password

New Password

New Password Again

Description of setting items for password change:

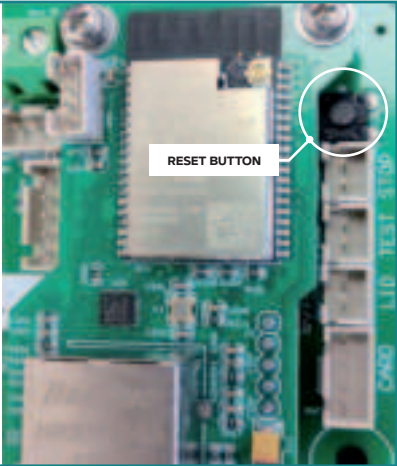
Configuration Item	Details of Configuration Item
Old Password	When you want to change your password, you need to enter your old password.
New Password	Enter the old password, and then enter the new password to change it.
New Password Again	Repeat the new password in New Password Again.

NOTE: When Wi-Fi Access Point password is changed, WEB login password automatically changes, and vice versa.

If you forget the password

When you forget your password, you can restore it to its default value through the following way:

1. Press the emergency stop button.
2. Press and hold the **reset button** inside the EV charger for 5 seconds.



Click **SAVE** to exit the Password Configuration interface.

Exit Network Configuration mode

- 1 When the settings are complete, click on the "Exit Web Configuration Mode" button. The EV charger will automatically connect to the server according to the parameters set.
- 2 After the server is successfully connected, the first green light will flash. In case of a failure to connect to the server for a long time, check whether the network and server configurations are entered correctly.

Warranty

In order to ensure the normal service life of charging piles and reduce the risks in use, maintenance must be done within the specified time by professionals with accredited safety maintenance tools. EV charger will automatically connect to the server according to the parameters set.

- 3 years free warranty is provided for any damage or malfunction caused by quality problems from the date of production of the charger.
- Damage caused by operation failure, natural force majeure, incorrect installation or instructions for use is not covered.
- Repair can only be performed by a certified and qualified engineer. If any problem occurs during installation or use, contact your dealer first.

Manufacturer self-declaration

- In order to improve the stability of the charger, manufacturer will provide software updates for at least three years from the date of manufacture of the charger.
- The charger will not collect and save users' sensitive personal data, such as payment information, timestamped location data, audio input stream or biometric data.
- The manufacturer will not collect telemetry data of the charger through remote service.

Connect to Monta App

Make sure you have the Monta App installed.

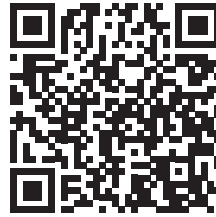
If not, use the QR codes on page 2 of this guide to download it
(App Store / Google Play).

- 1 **Scan the QR code** below that corresponds to your charger model:

Tethered EV Charger



Socket EV Charger



A pop-up will appear → tap **Open in Monta App**.

If you don't yet have the app, you'll be guided to download it first.

- 2 **Enter the charger's serial number** (the 9-digit number located on the rating plate on the side of the charger).

- 3 **Complete Charge Point Details**

- Enter your **address** and any other required information.
- Choose the **account or team** you want to link the charger to (for example, your personal account or your company team).
- Tap **Connect to Monta**

- 4 **Wait for Connection**

Monta will automatically check if your charger is online. If all settings are correct, the connection will be established.

Your Vorsprung Alpha charger is now
ready to use in the Monta app

VORSPRUNG[®]

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