







G R E E N S M A R T

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> Important safety instructions

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

△ Warning

- A Read this entire mandatory document before installing or using the EV charger.
- ⚠ This device should be supervised when used around children.
- ▲ 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, or continue operation.
- ▲ 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.
- ▲ Transporting the EV Charger, handle with care. Do not subject it to strong force or impact or pull, twist, tangle, drag, or step on the EV Charger, to prevent damage to it or any components.
- ▲ Do not touch the EV Charger's end terminals with sharp metallic objects, such as wire, tools, or needles.
- ▲ Do not forcefully fold or apply pressure to any part of the EV Charger or damage it with sharp objects.

- △ Do not insert 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 New 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.
- ▲ That adaptors or conversion adapters are not addowed to be used.
- △ That cord extension sets are not allowed to be used.

Notes

- Ensure that the EV Charger's charging cable is positioned so it will not bestepped on, driven over, tripped on, or subjected to damage or stress.
- 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 knockout.

Specification

Description	Specification	
Voltage and Wiring	Single-phase or three-phase EV Charger:AC230V±10%;L1、N、PE Three-phase EV Charger:AC400V±10%;L1、L2、L3、N、PE	
Current	6-32A	
Frequency	50/60HZ	
Cable Length	5M/6M	
EV Charger Dimensions	Height:380mm Width:169mm Depth:151/201mm	
Weight	6.2KG	
Operating Temperature	-25°C~55°C	
Enclosure Rating	IP65 (Socket IP55)	
Standby Power	2W	
Humidity	<90%No condensation	
Altitude	≤2000M	
Leakage detection	TYPE A + DC6mA leakage sensor built-in	

Features

- Build-in with overvoltage and under-voltage protection(U>264V or U<187V), overcurrent protection, over temperature protection, imperfect earth detection, CP abnormal signal protection and type A + DC 6mA for europe standard.
- Operating temperature range: -25 $^{\circ}$ C $^{\sim}$ +55 $^{\circ}$ C
- IP65(Socket IP55)protecting rate, operating humidity range 0-95% for indoor and outdoor.
- With temperature sensor build-in important areas for fire protection.
- With leakage test function, ensure the normal operation of leakage protection.
- The charger has a function of automatic reset after troubleshooting. That means when a
 charger stop working when an anomaly is detected, the charger will periodically selfcheck whether the anomaly is eliminated. The charger will start to work automatically
 after ensure the anomaly has been eliminated.

- Easy for cable storage.
- The ramp-down stop current charging mode protects the EV batteries.
- The EV charger can be wall-mounted or pile mounted. There are three wiring ways for the EV charger, bottom entry wiring, Top entry wiring and rear entry wiring. You will need to install the wiring box to make top entry wiring.
- · RFID card or auto-start charging for option.
- Rated charging current can be set according to different home load conditions.
- With lightning protection ensure personal safety.
- Standard: EN IEC 61851-1 IEC 61851-21-2
- Certificate: CE/CB/UKCA/SAA



Minimum installation requirements Installation of the wall charger requires that you:

- 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 an 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 oads 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.

> 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.

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)

Maximize wifi signal reception (for models with wifi function)



- For achieving optimal functionality, the Wall Mounted Connector should be connected
 to the local Wi-Fi network. To maximize signal reception, avoid installing wall-mounted
 connectors against physical obstacles such asconcrete, masonry, metal poles, etc. that
 may prevent Wi-Fi signal reception.
- Note: If the mobile device can connect to local Wi-Fi in a specific location, the wall-mounted connector can also be connected.

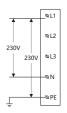
> Power supply

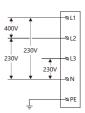
- 230V single-phase power supply
- For single-phase EV charger, a single-phase wire (L), Neutral and earth wire must be connected. The phase voltage between the Line and Neutral wires should be 230V.
- For 3-phase EV charger, connect the single phase wire (L1), the neutral wire and the earth wire do not connect the other phase wires (L2 or L3). The phase voltage between the line and neutral wires should be 230V.



 If three phases are applied, all three phases (L1, L2 and L3) and the neutral line should be connected to each other and the voltage of each phase to the neutral line should be 230V.







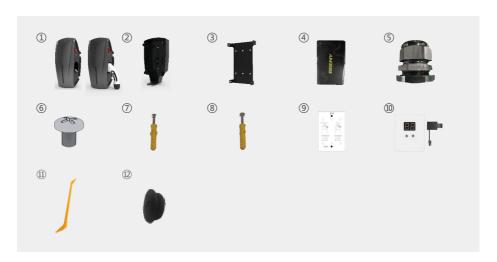
A Warning

- Normally, the earth wire should be properly connected, otherwise the EV charger will not work.
- ▲ For situations where there is no earth connection, in order to enable the EV Charger to operate, it can be set via APP to turn off the earth detection and it will work, but it will reduce to the leakage protection safety level.
- ▲ This BCP series AC EV charger must be grounded via a permanent electrical system or equipment grounding Conductor.
- ▲ Before installing an AC EV charger, please confirm the type of grid connection available. If you are unsure of the type of connection available on the service panel, please consult an electrician or contact ZJBENY for assistance.
- ▲ Note:Please consult your local electrician or refer to your local code in order to choose the proper wire for the AC EV charger current.

> Installation considerations

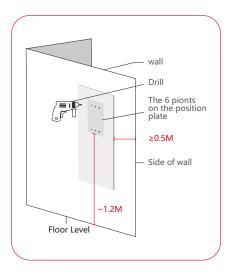
- Three methods are available to install the EV charger. The location of the conduit
 determines which installation method to follow. If the conduit runs along the floor or
 low on the wall, use the bottom entry configuration. If the conduit comes from inside
 the wall, use the rear entry configuration. If the available conduit comes from the
 ceiling, use the top entry installation.
- Note: Throughout the manual, "conduit" is used as the standard term for the protective tubing that houses the service wiring. In regions where conduit is not used (Europe for example), a cable comprised of service wiring enclosed in a protective jacket may be substituted for conduit if allowed by local regulations.
- Here are some additional guidelines
- Conduit openings are sized for (32 mm) conduit.
- · Conduit needs to be metal and flame retardant.
- · Use an appropriate circuit breaker.
- To keep the housing weatherproof, use cable glands.

In the box



NO.	Item	Quantity
1	EV charger	1
2	Wire Box	1
3	Mounting braket	1
4	RFID Card (optional)	2
5	M32*1.5 cable gland	1
6	M6*8 Screws	4
7	8*40 Socket head screws and anchorings	6
8	8*40 Flat head screws and anchorings	2
9	Position Template	1
10	DLB box (optional)	1
11	Plastic lifter	1
12	Water-proof cover	2

Step-by-step installation instructions (bottom entry wiring)



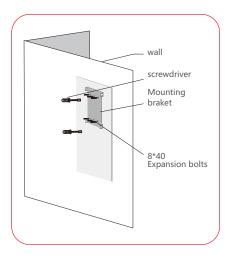
Step 1

Position

The bottom of the ③positioning plate is 1.2 m away (recommended), if the EV charger is installed close to the edge of the wall, the positioning plate should be more than 0.5 m away from the edge of the wall.

Drilling pilot holes

Drilling the holes according to the instruction on the Position template for different installation and wiring ways.

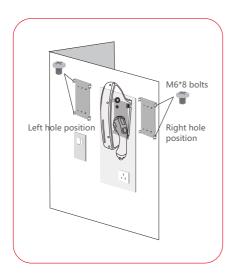


Step 2

Install the Mounting braket

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

Step-by-step installation instructions (bottom entry wiring)



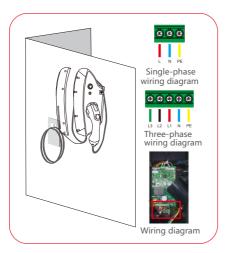
Step 3

Install the EV Charger to the mounting plate

Align the side hole of EV charger to the panel's side holes.

Installation

Use the 4pcs M6*8 screws to fix the EV charger to the mounting plate as picture shows (Screws torque 1.5NM-2.0NM).



Step 4

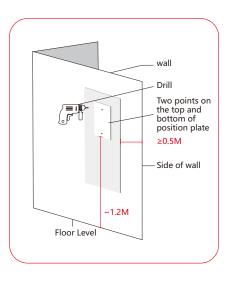
Wiring

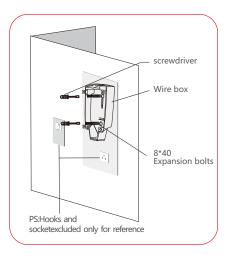
Note: Consult with your local electrician or refer to your local code for proper wire sizing appropriate for the currents in your EV Charger.

Note: It is the installer's responsibility to identify whether additional grounding is required to ensure that local regulations are met.Grounding must be installed at the power source and not at the cable entry to the EV Charger.

As the picture at left shows, use the screwdriver loosing the screws on the EV charger cover. Wire the cable to the according terminal.

Step-by-step installation instructions (top entry wiring)





Step 1

Position

The bottom of the ⁽⁹⁾ positioning plate is 1.2 m away (recommended), if the EV charger is installed close to the edge of the wall, the positioning plate should be more than 0.5 m away from the edge of the wall.

Drilling pilot holes

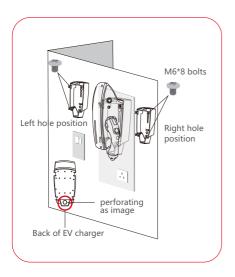
Drilling the holes according to the instruction on the Position template for different installation and wiring ways.

Step 2

Fix the wire box

Put the 8*40 flat head screws'anchoring into the holes and use the screw driver make the 2pcs 8*40 flat head screws to fix the Wire box Mounting Template on the wall.

Step-by-step installation instructions (top entry wiring)

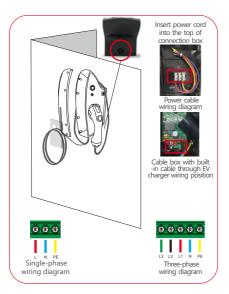


Step 3

Cut out on the back of the EV charger.

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 1.5NM-2.0NM).



Step 4

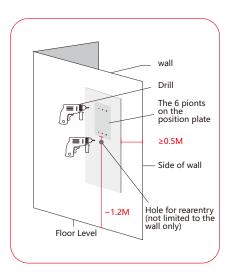
Wiring

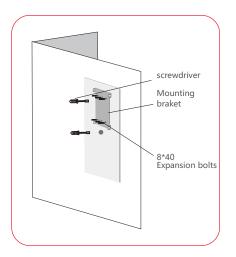
Note: Consult with your local electrician or refer to your local code forproper wire sizing appropriate for the currents in your EV Charger.

Note: It is the installer's responsibility to identify whether additional grounding is required to ensure that local regulations are met.Grounding must be installed at the power source and not at the cable entry to the EV Charger.

As the picture at left shows, use the screwdriver loosing the screws on the EV charger cover. Wire the cable to the according terminal.

Step-by-step installation instructions (rear entry wiring)





Step 1

Position

The bottom of the ⁽⁹⁾ positioning plate is 1.2 m away (recommended), if the EV charger is installed close to the edge of the wall, the positioning plate should be more than 0.5 m away from the edge of the wall.

Drilling pilot holes

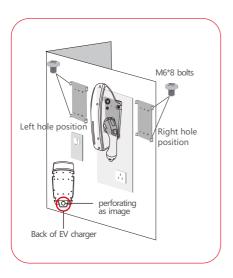
Drilling the holes according to the instruction on the Position template for different installation and wiring ways.

Step 2

Install the Mounting braket.

Put the 8*40 socket head screws' anchoring into the holes, and use the screw driver make the 6pcs 8*40 Socket head screws to fix the mounting braket on the wall.

Step-by-step installation instructions (rear entry wiring)

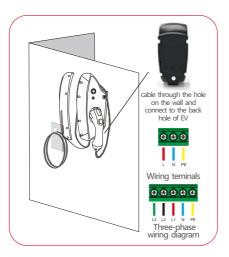


Step 3

Install the EV Charger to the mounting plate.

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 1.5NM-2.0NM).



Step 4

Wiring

Note: Consult with your local electrician or refer to your local code for proper wire sizing appropriate for the currents in your EV Charger.

Note: It is the installer's responsibility to identify whether additional grounding is required to ensure that local regulations are met.Grounding must be installed at the power sourceand not at the cable entry to the EV Charger.

As the picture at left shows, use the screwdriver loosing the screws on the EV charger cover. Wire the cable to the according terminal.

△ Warning

- 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.

> 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 (1.5NM-2.0NM)torque.
- ②. After sealing cover fixing, put the facia on and fix it on the sealing cover.
- ③. If you need to open the front cover, change the internal settings, please use the ④ plastic lifter to unclench along the edge of the cover.
- 4). Recommend to install a circuit breaker 40A/2P 30MA.



Operating status

> Power on checking

NO.	Check content
1	Check and ensure the circuit breaker for the EV charger is reasonably selected
2	Confirm that there is no short circuit between the AC output L/N/PE of the charging
3	Confirm that the charging gun is not connected to the vehicle
4	Ensure the circuit breaker is closed
5	The charger is powered on, and the power-on selfcheck is completed in about 10 seconds
6	After the power-on self-check is completed, observe the status of the LED indicator.Normal standby: Green breathing light ON. Equipment Failure: Yellow light on /Red light on (Please find below for reference)

> LED light instructions

EV Charger	LED light
No Power	LED OFF
Power ON Checking	Green, Yellow, Red Lights ON and OFF
Stayby	Green Light ON
Plug the connector without swiping RFID (not ready to charge)	Streaming light runs back and forth
Plug the connector without swiping RFID (ready to charge)	Streaming light runs fast back and forth
Plug the connector with RFID swiped (not ready to charge)	streaming light runs from two ends to the middle
Charging	Streaming lights from the middle to up and down
RFID initiated without charger inserted	green light on the upper,last for 1 min
Charing without current	LED lights runs from middle to the end (not to the bottom).
Charging with S2 disconnected	green light all on

Operating status

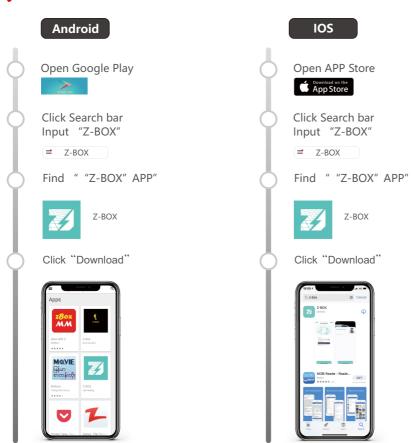
EV Charger	LED light
Emergency stop protection	Yellow light on
CP signal abnormal	Yellow & Red LED flicker alternately (interval 1s)
Poor grounding/Nature and live wire reverse connection	Red light ON
Over-voltage Protection	Red light flashes (flashing once every 500MS and then repeating after waiting 2 seconds)
Under-voltage Protection	Red light flashes (2 flashes at 500MS intervals, and then repeats after waiting for 2 seconds)
Over-current Protection	Red light flashes (interval 500MS)
Temperature Protection	Red light flashes (interval 200MS)
Leakage Protection	Red light flashes (interval 500MS flashes 3 times,wait 2 seconds and repeat)
LED board is Offline	The yellow light is on once and then flashes 2 times intermittently (after the yellow light is on for 1second, it flashes 2 times and 2 seconds at an interval of 250MS)
DLB Offline	The yellow light is on once and the red light is flashing once intermittently (after the yellow light is on for 1 second, the red light flashesonce at 250MS intervals and repeats after 2 seconds.
Current abnormal	The yellow light is on once and the red light is flashing 2 times intermittently (after the yellow light is on for 1 second, the red light flashes 2 times and 2 seconds at an interval of 250MS)

Operating status

> Buzzer prompt description

Buzzer	Status	Operating
Short buzzing one sound	Swipe to start	Start charging
Short buzzing two sounds	Swipe to quit	Stop charging
Long buzzing one sound	Swipe failure	NONE

> Start to use? Download the APP here



Maintenance instructions

In order to ensure the normal service life of the charging pile and reduce the risk during use, it must be overhauled with in the specified time period; the overhaul of the equipment should be carried out by professionals, band qualified and safe overhaul tools should be used.

> Product overhaul

- · Regularly check whether the product is damaged.
- Ensure that the emergency stop, circuit breaker and other components of the product can be used under any circumstances, and conduct regular tests.
- If a ground fault occurs, first make sure that the grounding cable carries voltage, and then check that there is no high voltage in the system, and then repair the charger.

> Warranty description

- Ensure that the AC chargers have undergone strict quality inspection. During the warranty period, if the quality problems occur under normal use, the company will provide quality warranty.
- The user's improper handling, installation, incorrect use and maintenance, negligence
 or natural damage to the product and failure of normal use are not covered by the
 warranty.

Maintenance instructions

Safety notice

Operation and maintenance risk notification

- Do not disassemble or modify charging facilities and wiring without authorization, otherwise it may cause fire and electric shock accidents.
- In the event of a power failure or power failure, professional personnel or authorized operation and maintenance personnel must perform maintenance, otherwise there may be a risk of electric shock; charging equipment maintenance is not allowed when the power is not disconnected, and there is a risk of electric shock.
- The emergency stop switch should be inspected and maintained regularly to ensure that the emergency stop switch is effective.
- There should be no combustible and combustible materials around the charging equipment. If there is any, it should be cleaned up in time, othewise there is a risk of fire.

> Use risk notification

- Please confirm whether the parameters of the electric vehicle and the charging equipment match before use, otherwise it may cause damage to the vehicle.
- It is strictly forbidden to use the charger in the case of equipment failure. Do not operate without authorization when the charging is abnormal. If you find any abnormalities, please contact the staff in time.
- Please strictly follow the operating procedures and prompts on the charging equipment, otherwise there is a risk of electric shock and fire.
- In the event of fire, flooding of charging facilities, etc., it is strictly forbidden to • approach the charging equipment. Please inform personnel familiar with the equipment and emergency treatment methods for emergency treatment in time.

Guardians should take good care of children when they are moving around charging facilities to avoid accidents such as electric shock.



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For the latest version of specification, please refer to www.beny.com or contact to benyi@zjbeny.com We reserve the right to explain the terms of specification.

