



EV Charging Station User Manual



Enjoy it.

Please read this instruction carefully
before using the product.

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Packing List

Material View	Material Name	Material Qty
	Charging Station - Cable Type	1
	Charging Station - Socket Type	1
	Back Metal Bracket 1	1
	Back Metal Bracket 2	1
	User Manual	1
	Phillips hexagonal self-tapping screw M6*50	6
	Plastic Expansion Plug φ10*50	6
	Torx Screw M4*10	1
	Butterfly Screw M5*12	2
	RFID Card for Activation of the Charger	2

Installation Tools



Torx screwdriver



Phillips screwdriver



Hammer



Level



Electric drill



Diagonal pliers



Utility knife



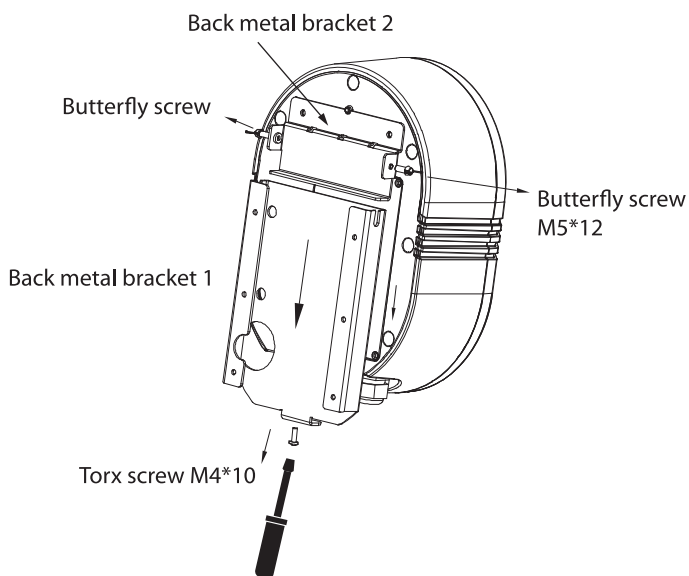
Tape measure



Pencil

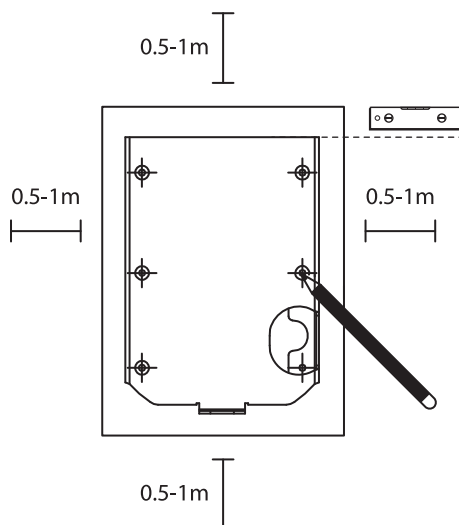
Installation Steps - Wall Mounting

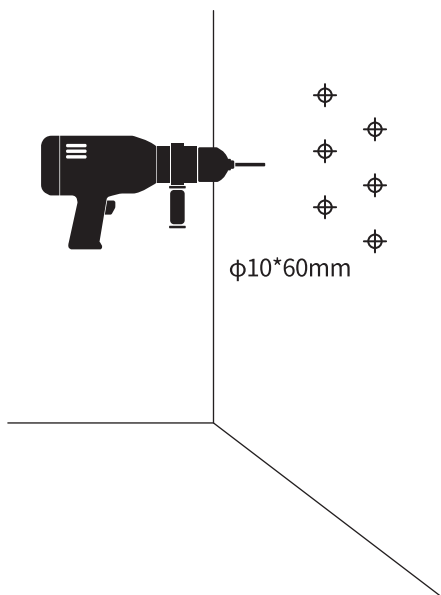
1. Disassemble the back part and take out the wall mounting plate.



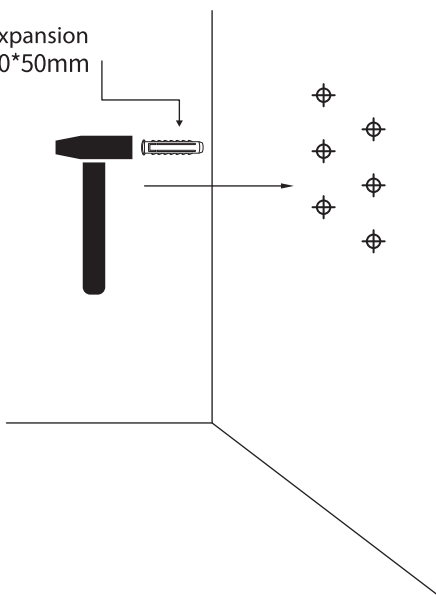
2. Drilling holes

Note: Please reserve enough space for the installation of the Charging Station.

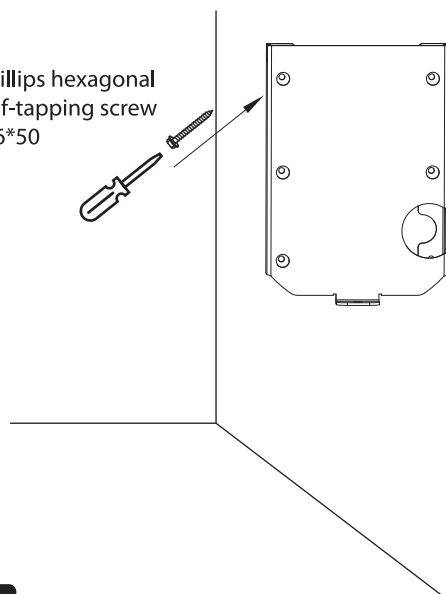




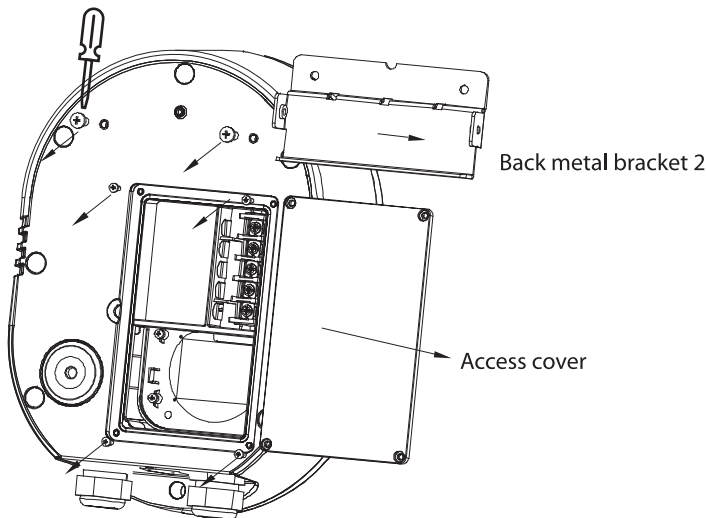
Plastic Expansion
Plug φ10*50mm



Phillips hexagonal
self-tapping screw
M6*50



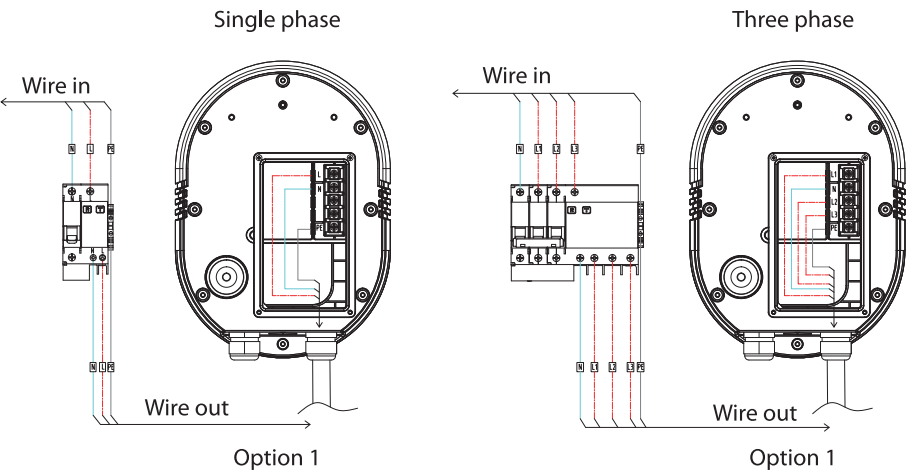
3. Remove the access cover and connect the power cord



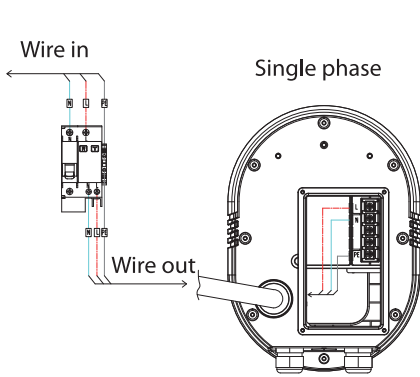
IMPORTANT: The connection point of the Charging Station shall be protected by an RCD having a rated residual current not exceeding 30mA.

4. Electrical Wiring Diagram

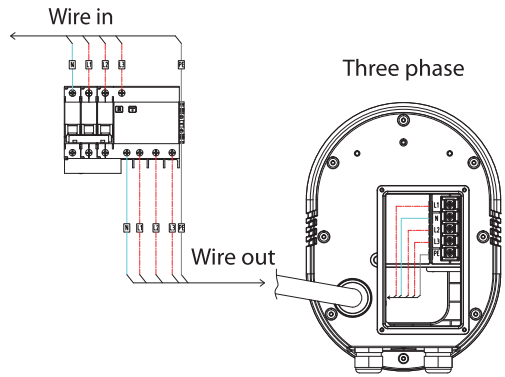
Option 1 External cable access from the bottom



Option 2 External cable access from the back

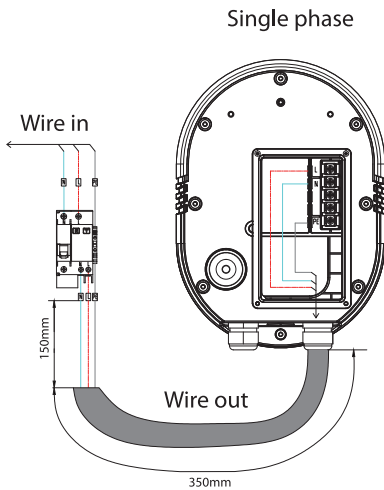


Option 2

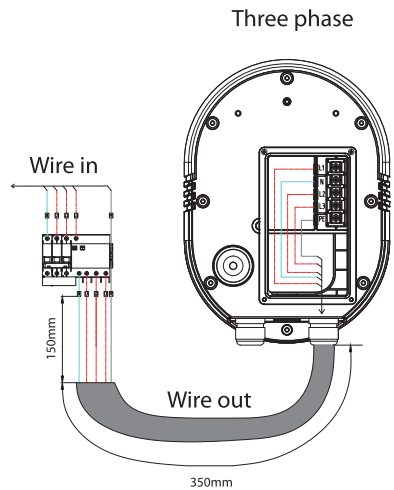


Option 2

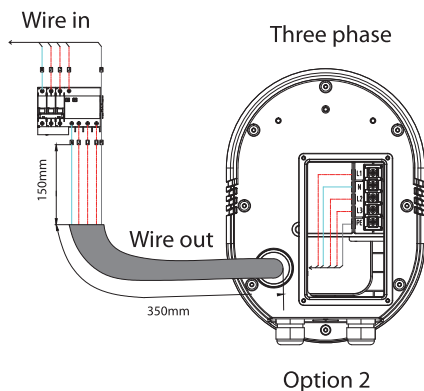
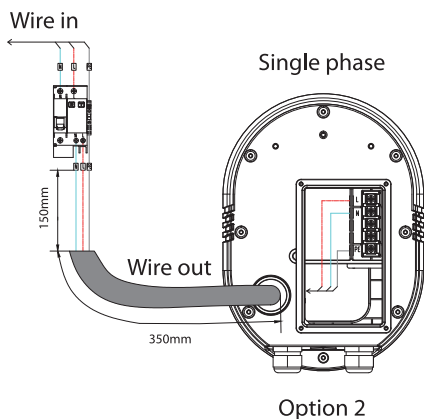
Note: The illustration below shows the Wiring Diagram in case the Charging Station is provided with a hard wired installation cable.



Option 1



Option 1

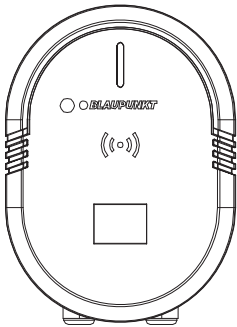
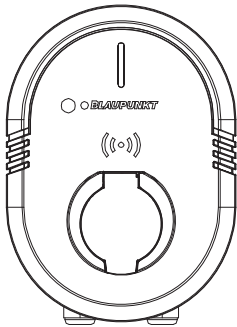
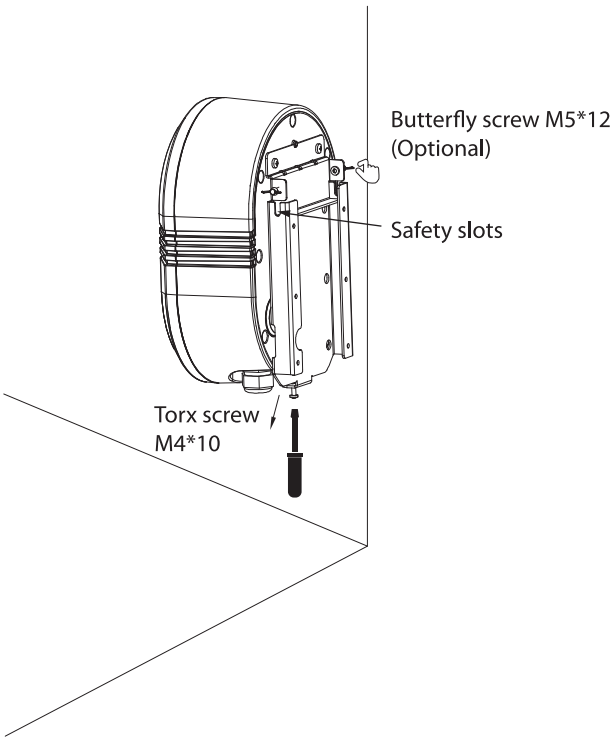


Recommended Cable Section

The authorized installer must always choose cables that comply with the installation laws of the country.

Cable Description	Number of Phases and Conductors	Current Ampere normally up to
3G6	1-phase, (2+PE), 6mm ²	32A
5G2.5	3-phase, (4+PE), 2.5mm ²	16A
5G6	3-phase, (4+PE), 6mm ²	32A

5. Install the Charging Station



Installation Complete

Precautions

Note: The electric vehicle charging station must always be installed in accordance with the legal requirements and regulations of the country where it is installed. When using electrical products, basic precautions and instructions for safe use must always be followed, including the following. This manual contains important instructions that must be followed during installation, operation, and maintenance of the unit. Please read it carefully before use to avoid electric shock or other accidents.

Danger: Risk of electric shock!

1. The charging station must be installed by a licensed electrician in compliance with all local electrical codes, regulations, and any authorities having jurisdiction.
2. This product must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. Improper installation of the charging station may result in personal injury or product damage.
3. The charging station must be supplied by a power source with an upstream disconnect device. Turn off the disconnect device at the service or distribution panel before performing electrical work or repairs.
4. Do not attempt to disassemble, repair, or modify the electric vehicle charging station. The charging station contains no user-serviceable parts. Do not attempt to repair or service the station yourself. If repair or modification is needed, please contact customer service. Improper operation may cause damage to the unit, water leakage, current leakage, or other situations that can lead to personal injury, product failure, or significant environmental damage.
5. Unauthorized modification of the unit is not permitted, and any attempt to do so will void the manufacturer's warranty.
6. Improper installation of the electric vehicle charging station may result in damage to the vehicle's battery and the charging station itself. Such damage will invalidate the vehicle and charging station warranties.
7. Please install the charging station in a dry, ventilated, and safe environment. Avoid spraying water directly on the charging station or any part of it.
8. Do not use the charging station in temperatures outside its operating range of -30°C ~ $+50^{\circ}\text{C}$.
9. Use this charging station within the specified operating parameters. Failure to do so may result in personal injury or death.
10. This product can cause serious injury if contact is made with its internal parts during operation. Additionally, disconnect the power supply after use.

11. Keep the charging plug and socket head clean and dry. In case of dirt, wipe it off with a clean, dry cloth; do not use chemicals. It is strictly prohibited to touch the core of the charging plug and socket with your hands while it is charging.
12. Do not place flammable, explosive, or combustible materials (solids, liquids, gases, vapors), chemicals, or other hazardous objects near the charging station.
13. It is strictly prohibited to use the electric vehicle charging station if there are visible damages, loose parts, cracks, wear, broken insulation, or exposed metal in the plug, charging cable, charging station, or any other signs of damage. In case of such situations, please contact customer service.
14. If an alarm message appears on the charging station's display or LED indicator, charging or use must be immediately discontinued. In these cases, please contact customer service.
15. Exercise caution during rain and thunderstorms when charging.
16. Do not attempt to charge the vehicle while it is in motion. The vehicle must remain stationary throughout the entire charging process.
17. Install, use, or operate the charging station in a well-lit area and away from heavy pedestrian traffic to avoid accidental hazards, and ensure that the charging cable is not stepped on, tripped over, or subjected to damage or strain.
18. Children and pets should not be left unattended near the charging station during charging. Avoid contact between the charging station and children or pets during charging.
19. Do not hit, press firmly, scratch, or damage the housing and associated parts of the charging station.
20. Improper moving, transporting, or storing of the unit may result in product damage.



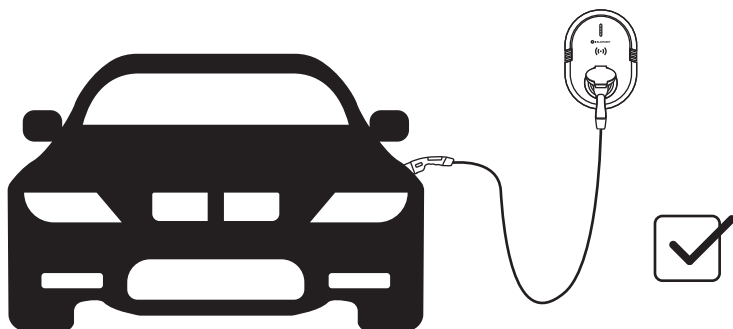
WARNING: This installation and user manual for the electric vehicle charging station is not a substitute for electrical safety precautions!

Charging Your Car

Note: The following operating steps apply to the socket-type charging station.

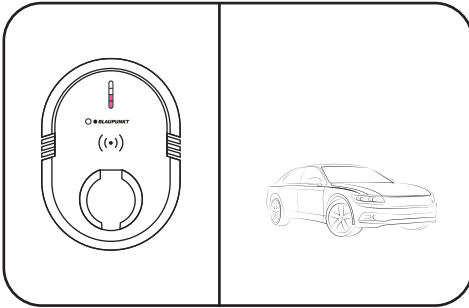
Tips:

1. The electric vehicle should be parked at an appropriate distance from the charging station. Pulling hard on the charging cable can result in cable connection faults, damage to the cable, or electrical leakage.

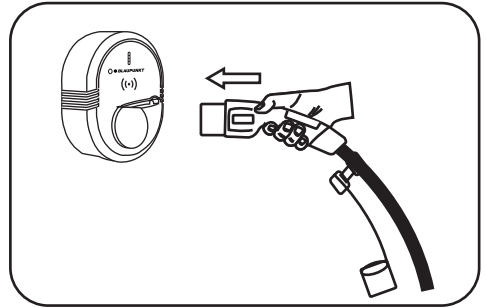


2. It is not permitted to use adapters or conversion adapters.
3. It is not permitted to use extension cords.

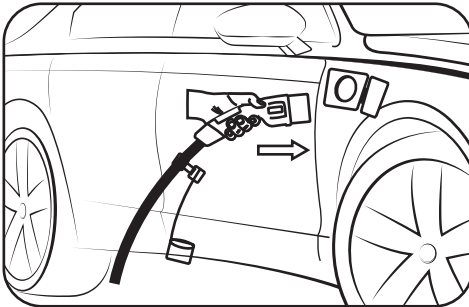
Start Charging



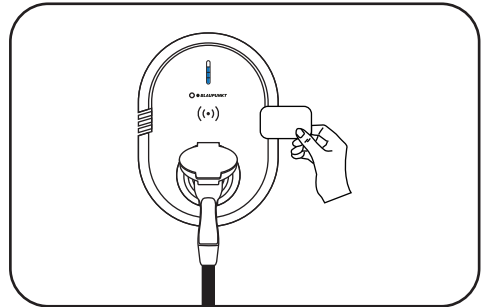
1. When powered on, if installed correctly, the LED lights will "run" from top to bottom in a pink color for 5 seconds before turning blue.



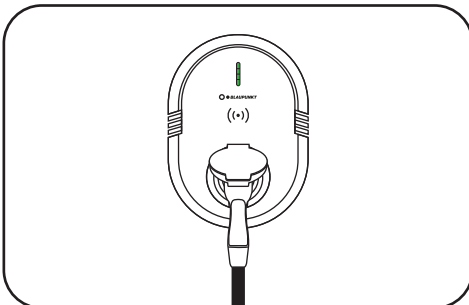
2. Insert the plug into the charging station.



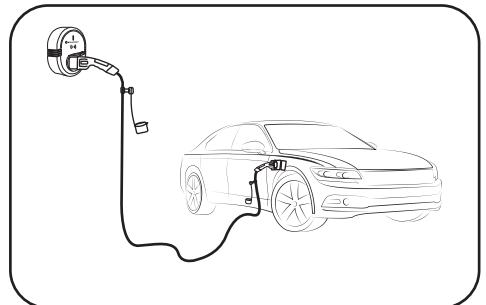
3. Insert the vehicle connector.



4. Swipe the RFID card over the wireless symbol. 1 x Buzzing sound means that charging will start.

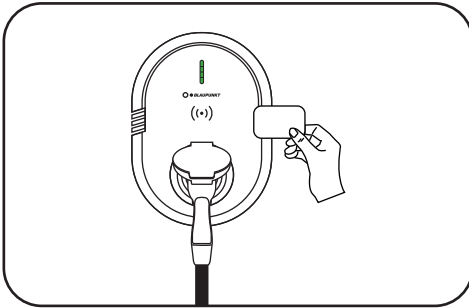


5. Start charging.

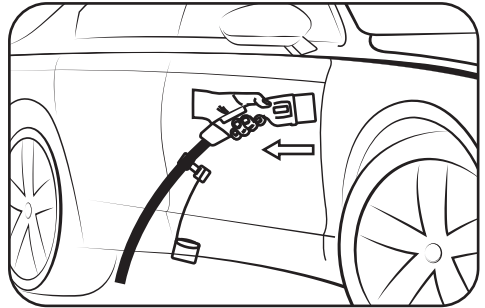


6. Charging.

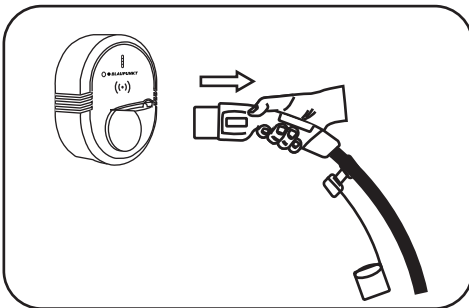
Stop Charging



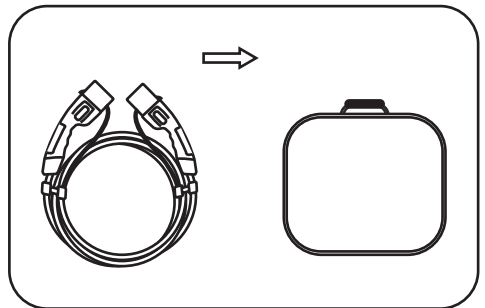
1. Swipe the RFID card over the wireless symbol. 1 x Buzzing sound means that charging will stop.



2. Remove the vehicle connector from car side.



3. Remove the power source plug from Charging Station side.

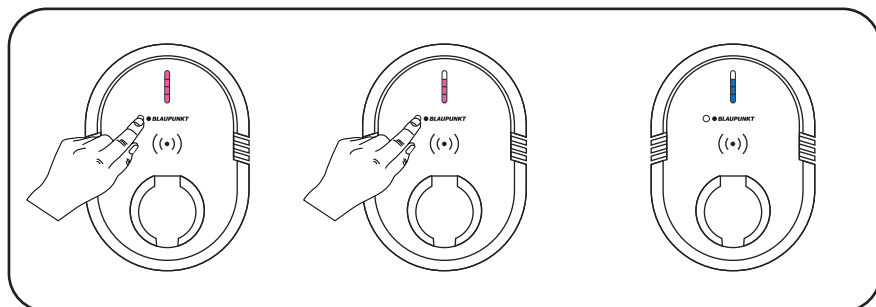


4. Put the charging cable back to the bag.

Current Setting

⚠ CAUTION

In order to switch charging current, please make sure the charging station is power on and the connector for the EV is disconnected.



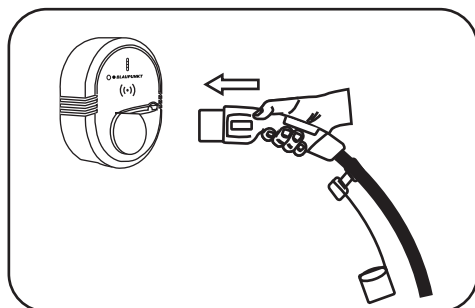
Each time you press the black button, a different power setting will be selected. Each of the 4 lights in the bar represents 25% charging power.

Waiting for 4 seconds, the Charging Station will exit and set the rated current.

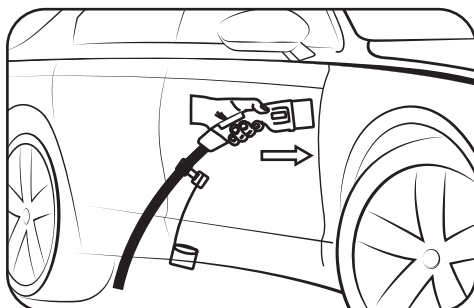
Delayed Charging

⚠ CAUTION

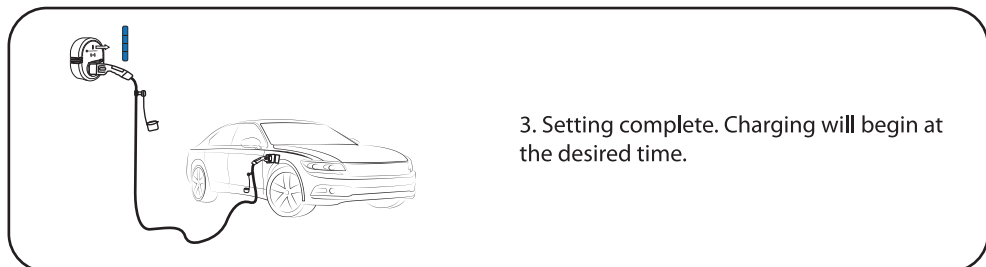
The delayed charging function can only be activated via the APP. Please ensure that the Charging Station is powered on and has been connected to the APP.



1. Insert the plug into the charging station.



2. Insert the vehicle connector.



3. Setting complete. Charging will begin at the desired time.

Display Light Status

Operation

Timeline	Action/Status	Light Color	Light Status (On / Off)	Result
1	Power Off		Remains Off	Power Off
2	Check		During the self check, the light is running from top to bottom, blinking every quarter of a second	Self check
3	Standby		Remains On	The device is idle
4	Connected		Flashing, 2 Seconds On / 2 Seconds Off	The Plug is inserted to the Charging Station, Connector is inserted to the Electric Vehicle.
5	Charging		When charging, the light is running from bottom to top, blinking every quarter of a second	Charging
6	Charging Stopped/ Paused/Completed		3 quick flashing and 1 slow flashing	Charging Stopped or Paused by the Car
7	Charging Stopped/ Paused/Completed		Flashing, 1 Seconds On / 1 Seconds Off	Charging stopped by the user

Trouble Shooting

Fault Status	No.	Action/Status	Light Color	Light Status (On / Off)	Result
	1	Leakage Protection		1 quick flash and 1 slow flash	no charging
	2	Over-current Protection		2 quick flashes and 1 slow flash	no charging
	3	Over-temperature Protection		3 quick flashes and 1 slow flash	no charging
	4	Over-voltage / Under-voltage		4 quick flashes and 1 slow flash	no charging
	5	Self-test Failed		5 quick flashes and 1 slow flash	no charging
	6	Ground Fault		1 quick flash and 2 slow flashes	no charging
	7	Relay Fault		1 quick flash and 3 slow flashes	no charging
	8	CP Error		1 quick flash and 4 slow flashes	no charging
	9	Other Faults		1 quick flash and 5 slow flashes	no charging
Remarks:					
Quick Flashing: 0.5s On / 0.5s Off					
Slow Flashing: 2s On / 0.5s Off					
If the charging has been interrupted due to an error. The light will continue flashing until the plug has been removed.					
At the right side of the Charging Station, a Nameplate is pasted there, one can also find the Serial Number(S/N) and Manufacture Date, contact the Seller and provide these information to obtain After-sales service that within the Warranty Scope.					

Product Specification

Charging Station - Cable Type



1. SPECIFICATIONS(Basic)

Model	BW1P32ACB	BW3P16ACB	BW3P32ACB
Charging Power	7KW	11KW	22KW
Rated Current	32A / 1 Phase	16A / 3 Phase	32A / 3 Phase
Rated Frequency	50Hz	50Hz	50Hz
Input/Output Voltage	AC 230V±15% / 1P+N+PE	AC 400V±15% / 3P+N+PE	AC 400V±15% / 3P+N+PE
Network Type	TT / TN		
RCD	AC 30mA + DC 6mA		
RCBO	External Type A RCBO if specially required. Specification: IEC 60898-1, Rated voltage of 230V AC, Rated current of 40A, Short-circuit current can be limited to 6kA or below.		
Protection	Overcurrent / Overvoltage / Undervoltage / Short-circuit / PE-ungrounded / Over-temperature		
Status Indication	LED / LCD		
Connectivity	RS485		
User Authentication	RFID card		
Load Balance	Home edition offline		

2. SPECIFICATIONS(Smart)

Model	BW1P32ACS	BW3P16ACS	BW3P32ACS
Charging Power	7KW	11KW	22KW
Rated Current	32A / 1 Phase	16A / 3 Phase	32A / 3 Phase
Rated Frequency	50Hz	50Hz	50Hz
Input/Output Voltage	AC 230V±15% / 1P+N+PE	AC 400V±15% / 3P+N+PE	AC 400V±15% / 3P+N+PE
Network Type	TT / TN		
RCD	AC 30mA + DC 6mA		
RCBO	External Type A RCBO if specially required. Specification: IEC 60898-1, Rated voltage of 230V AC, Rated current of 40A, Short-circuit current can be limited to 6kA or below.		
Protection	Overcurrent / Overvoltage / Undervoltage / Short-circuit / PE-ungrounded / Over-temperature		
Status Indication	LED / APP / LCD		
User Interface	Charger APP, Charge Service Software		
Connectivity	Bluetooth, Wi-Fi, Ethernet, RS485		
Communication Protocols	OCPP 1.6 / OCPP 2.0		
User Authentication	RFID card, APP		
Software Update	OTA updates via web portal		
Load Balance	Home edition offline, Remote control online		

3. SPECIFICATIONS(Full Function)

Model	BW1P32ACF	BW3P16ACF	BW3P32ACF
Charging Power	7KW	11KW	22KW
Rated Current	32A / 1 Phase	16A / 3 Phase	32A / 3 Phase
Rated Frequency	50Hz	50Hz	50Hz
Input/Output Voltage	AC 230V±15% / 1P+N+PE	AC 400V±15% / 3P+N+PE	AC 400V±15% / 3P+N+PE
Network Type	TT / TN		
RCD	AC 30mA + DC 6mA		
RCBO	External Type A RCBO if specially required. Specification: IEC 60898-1, Rated voltage of 230V AC, Rated current of 40A, Short-circuit current can be limited to 6kA or below.		
Protection	Overcurrent / Overvoltage / Undervoltage / Short-circuit / PE-ungrounded / Over-temperature		
Status Indication	LED / APP / LCD		
User Interface	Charger APP, Charge Service Software		
Connectivity	Bluetooth, Wi-Fi, Ethernet, RS485, 4G		
Communication Protocols	OCPP 1.6 / OCPP 2.0		
User Authentication	RFID card, APP, QR code		
Software Update	OTA updates via web portal		
Load Balance	Home edition offline, Remote control online		

General Characteristics

IP And IK Rating	Body IP54, IK10
Cable length	5m (Customizable)
Output interface	IEC 62196-2 Type 2 Connector
Operating altitude	2000m
Operating temperature range	-30°C~+50°C
Storage temperature range	-40°C~+85°C
Mounting	Wall mounted or Pole mounted
Dimensions (HxWxD)	290x210x110mm
Safety standards	EN IEC 61851-1:2019 / IEC 61439-7 / IEC 62368-1 / IEC 62955:2018
Certification	CE-LVD, CE-EMC, CE-RED, CB, UKCA

Product Specification

Charging Station - Socket Type



1. SPECIFICATIONS(Basic)

Model	BW1P32ASB	BW3P16ASB	BW3P32ASB
Charging Power	7KW	11KW	22KW
Rated Current	32A / 1 Phase	16A / 3 Phase	32A / 3 Phase
Rated Frequency	50Hz	50Hz	50Hz
Input/Output Voltage	AC 230V±15% / 1P+N+PE	AC 400V±15% / 3P+N+PE	AC 400V±15% / 3P+N+PE
Network Type	TT / TN		
RCD	AC 30mA + DC 6mA		
RCBO	External Type A RCBO if specially required. Specification: IEC 60898-1, Rated voltage of 230V AC, Rated current of 40A, Short-circuit current can be limited to 6kA or below.		
Protection	Overcurrent / Overvoltage / Undervoltage / Short-circuit / PE-ungrounded / Over-temperature		
Status Indication	LED		
Connectivity	RS485		
User Authentication	RFID card		
Load Balance	Home edition offline		

2. SPECIFICATIONS(Smart)

Model	BW1P32ASS	BW3P16ASS	BW3P32ASS
Charging Power	7KW	11KW	22KW
Rated Current	32A / 1 Phase	16A / 3 Phase	32A / 3 Phase
Rated Frequency	50Hz	50Hz	50Hz
Input/Output Voltage	AC 230V±15% / 1P+N+PE	AC 400V±15% / 3P+N+PE	AC 400V±15% / 3P+N+PE
Network Type	TT / TN		
RCD	AC 30mA + DC 6mA		
RCBO	External Type A RCBO if specially required. Specification: IEC 60898-1, Rated voltage of 230V AC, Rated current of 40A, Short-circuit current can be limited to 6kA or below.		
Protection	Overcurrent / Overvoltage / Undervoltage / Short-circuit / PE-ungrounded / Over-temperature		
Status Indication	LED / APP		
User Interface	Charger APP, Charge Service Software		
Connectivity	Bluetooth, Wi-Fi, Ethernet, RS485		
Communication Protocols	OCPP 1.6 / OCPP 2.0		
User Authentication	RFID card, APP		
Software Update	OTA updates via web portal		
Load Balance	Home edition offline, Remote control online		

3. SPECIFICATIONS(Full Function)

Model	BW1P32ASF	BW3P16ASF	BW3P32ASF
Charging Power	7KW	11KW	22KW
Rated Current	32A / 1 Phase	16A / 3 Phase	32A / 3 Phase
Rated Frequency	50Hz	50Hz	50Hz
Input/Output Voltage	AC 230V±15% / 1P+N+PE	AC 400V±15% / 3P+N+PE	AC 400V±15% / 3P+N+PE
Network Type	TT / TN		
RCD	AC 30mA + DC 6mA		
RCBO	External Type A RCBO if specially required. Specification: IEC 60898-1, Rated voltage of 230V AC, Rated current of 40A, Short-circuit current can be limited to 6kA or below.		
Protection	Overcurrent / Overvoltage / Undervoltage / Short-circuit / PE-ungrounded / Over-temperature		
Status Indication	LED / APP		
User Interface	Charger APP, Charge Service Software		
Connectivity	Bluetooth, Wi-Fi, Ethernet, RS485, 4G		
Communication Protocols	OCPP 1.6 / OCPP 2.0		
User Authentication	RFID card, APP, QR code		
Software Update	OTA updates via web portal		
Load Balance	Home edition offline, Remote control online		

General Characteristics

IP And IK Rating	Body IP54, Socket IP54, IK10
Output interface	IEC 62196-2 Socket or Socket with shutter (optional)
Operating altitude	2000m
Operating temperature range	-30°C~+50°C
Storage temperature range	-40°C~+85°C
Mounting	Wall mounted or Pole mounted
Dimensions (HxWxD)	290x210x130mm
Safety standards	EN IEC 61851-1:2019 / IEC 61439-7 / IEC 62368-1 / IEC 62955:2018
Certification	CE-LVD, CE-EMC, CE-RED, CB, UKCA

EVSE

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