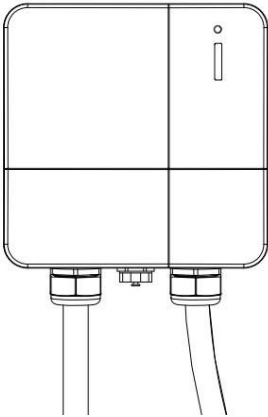


Electric Vehicle AC Charger

Installation Instructions



USER MANUAL

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WARNING & CAUTION

1. Important Safety Instructions

1.1 Overall Warnings & Cautions

- ⚠ WARNING:** To avoid fire, injury or death, carefully read and follow the instructions during installation, operation and maintenance.
 - **DO NOT** put fingers into the electric vehicle connector.
 - **DO NOT** use this product if the flexible power cord or EV cable is frayed, insulation-broken, or any other signs of damage.
 - **DO NOT** use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
 - **DO NOT** remove cover or attempt to open the enclosure because of risk of electric shock.
- ⚠ WARNING:** This device should be supervised when used around children.
- ⚠ WARNING:** This device must be grounded.
- ⚠ WARNING:** To avoid a risk of fire or electric shock, do not use this device with an extension cord.

Circuit Breaker Options table		
	Single Phase	Three Phase
Output Amperage (A)	32A	16A
Circuit Breaker Options (A)	40A	20A

USER MANUAL



WARNING & CAUTION

1.2 Installation Requirements

- ⚠ WARNING:** Disconnect electrical power prior to installing the charging station.
- ⚠ WARNING:** Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.
- ⚠ WARNING:** The AC charger should be installed by a qualified technician according to the user manual and local safety regulations.
- ! CAUTION:** Use appropriate protection when connecting to the main power distribution cable.
- ! CAUTION:** Type B, C or D breaker with the rating current for table should be installed in the upstream AC distribution box.
- ! CAUTION:** The device shall be mounted at height between 600 mm and 1200 mm from ground.
- ! CAUTION:** Please keep the charger in a clean area with low humidity. Not recommended to be installed in coastal environments with high humidity or high dust.

1.3 Daily Maintenance

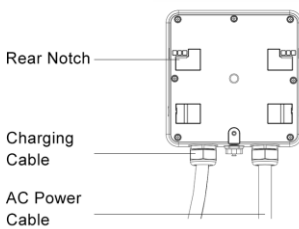
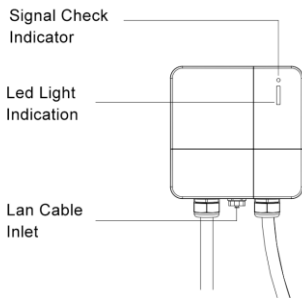
- ! CAUTION:** Avoid moisture or water in the charger. If there is water or moisture ingress in the charger, it is necessary to immediately power off to avoid immediate danger, and notify the professionals to carry out maintenance before next use.
- ! CAUTION:** Please use the charger properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.
- ! CAUTION:** Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
- ! CAUTION:** Do not put heavy objects on the charger to avoid danger.

2. Product Introductions



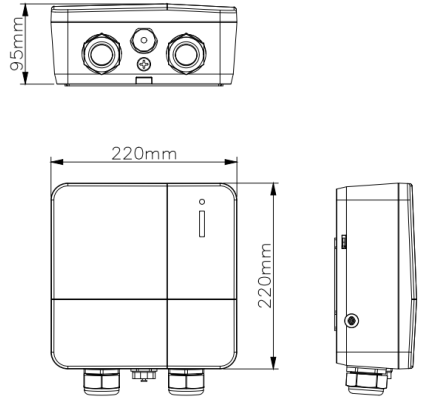
CAUTION: Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

2.1 Basic Interface

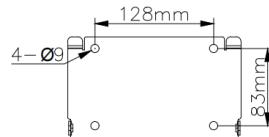


2.2 Basic Dimension

Enclosure



Wall-Mounted Bracket



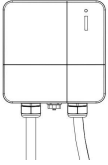
USER MANUAL

2.3 Specifications

Model Number	EVC27	
Rated Input Voltage	230VAC \pm 10% / Single Phase	400VAC \pm 10% / Three Phase
Rated Output Current	32A	16A
AC Power Frequency	50/60 Hz	
Input Protection	UVP, OVP, RCD(DC 6mA), SPD, Ground Fault Protection	
Output Protection	OCP, OTP, Control Pilot Fault Protection	
Output Interface	IEC 62196-2 AC Charging Connector	
Storage Temperature	-40°C to +80°C	
Operation Temperature	-30°C to +50°C	
Relative Operation Humidity	Up to 95% non-condensing	
Relative Storage Humidity	Up to 95% non-condensing	
Network Connection	LAN Version / Wi-Fi Version	
Internet Function	10M / 100M	
Wi-Fi Function	802.11 b/g/n	
Cable Length	5m Standard (7m Optional)	
Protection Level	IP65/IK08	
Altitude	2000m	

3. Verify Contents

Check the box to ensure you have this installation guide and these parts:



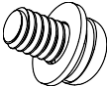
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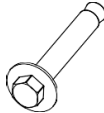
2



3



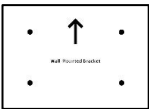
4



5



6



7



8



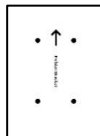
9



10



11



12



13

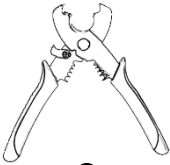
USER MANUAL

No.	Product Name	Quantity	Description
1	AC Charger	1	With attached input power cable and output charging cable
2	User Manual	1	Please read carefully before use
3	Wall-Mounted Bracket	1	For mounting the charging station to the wall/structure
4	M5 Anti-Theft Round Head Screws	2	For securing the charging station to the Mounting Bracket
5	M6 Hexagonal Expansion Screws	4	For installing the Mounting Bracket to the wall/structure
6	Allen Wrench	1	For tightening M5 Screws
7	Corrugated Mounting Template	1	For easy drilling of 4 screws holes for wall-mounted bracket.
8	M6 Anti-Theft Hexagonal Expansion Screws(Optional)	4	For installing the Holster Bracket to the wall/structure
9	M5 Anti-Theft Countersunk Head Screws (Optional)	4	For securing the Plug Holster to the Holster Bracket
10	Holster Bracket (Optional)	1	For mounting the Plug Holster to the wall/structure
11	Plug Holster(Optional)	1	For allowing the plugs to be neatly and safely stored when not in use.
12	Corrugated Mounting Template (Optional)	1	For easy drilling of 4 screws holes for holster bracket.
13	RFID Card(Optional)	2	Control the charger start/stop

4. Gather Tools

Tools required before installing the Wall-Mounted charger, gather the following tools:

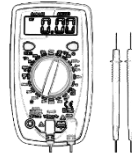
1. Wire stripper
2. Adjustable Wrench
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. Level
5. Pencil or marker
6. Drill



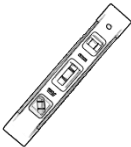
①



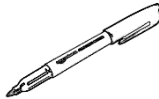
②



③



④



⑤



⑥

Note: The above tools are very important, please gather them all.

USER MANUAL

5. Plan The Mounting



WARNING: In areas with frequent thunderstorms, add surge protection at the service panel for all circuits. Ensure all power and ground connections, especially those at the breaker and bus bar, are clean and tight.

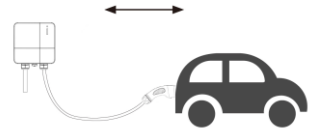


CAUTION: Not recommended to be installed in coastal environments with high humidity or high dust.

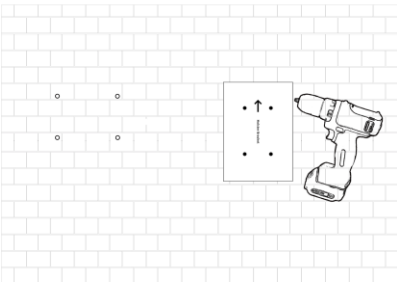
STEP 1

Select the appropriate mounting location with electrical capacity:

- I. Ensure the owner has chosen a mounting location that allows the charging cable to reach the car's charging port while still providing slack.
- II. The device must be anchored into mounting such as 50mm x 150mm stud or a solid wall.
- III. The device shall be mounted at height between 600 mm and 1200 mm from ground.



STEP 2 (Holster is optional)

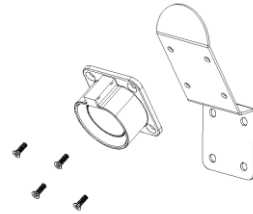


Drill 8 Screw Holes with a diameter of 8.5mm and a depth of 55mm~60mm by using 2 mounting templates. Please drill screw holes in the direction of the template arrow. And use two templates at a horizontal distance around 300mm.

6. Mount the Charging Station

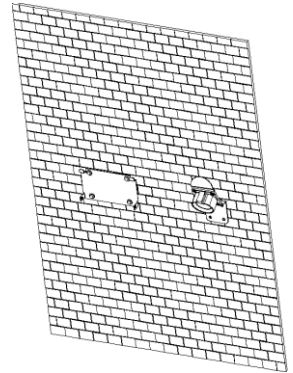
STEP 3 (Holster is optional)

Secure the Plug Holster to the Holster Bracket with 4 M5 Anti-theft countersunk head screws. Please ensure the grooved part of the inner ring is always downward.

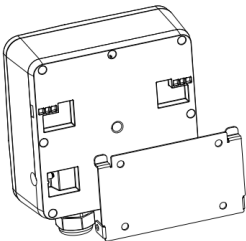


STEP 4 (Holster is optional)

Use 2 different sets (8 pcs in total) of Hexagonal Expansion Screws to secure the wall-mounted bracket and holster bracket (use anti-theft hexagonal expansion screws) on the wall. Then level the brackets.

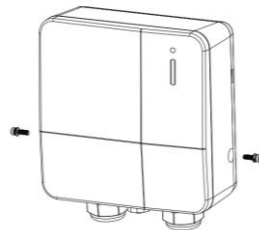


STEP 5



Align the rear notch of charger with the wall-mounted bracket and fit the screw holes of the right and left side.

STEP 6



Tighten two M5 anti-theft screws to complete the installation.

USER MANUAL

7. Wire The Circuit



WARNING: This device must be grounded. Disconnect electrical power prior to installing the charging station.



WARNING: Improper connection of the equipment-grounding conductor would result in a risk of electric shock. Check with a qualified electrician or serviceman if you are not sure whether the product is properly grounded. Do not modify the plug provided with the product – if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.



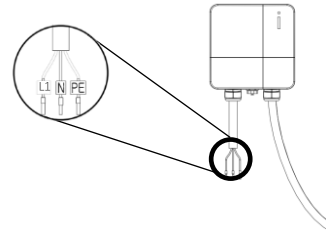
CAUTION: Use appropriate protection when connecting to the main power distribution cable.

7.1 Incoming cable connection

For safe use of electricity, please set circuit breaker protection in the input part of EV Charger. The wiring is not complicated, just need to follow the instructions below:

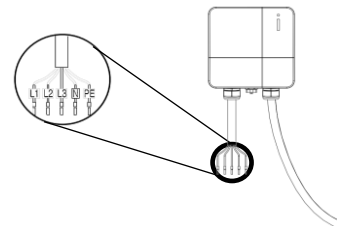
For Single Phase

Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2, connect the PE lead to the grid PE.



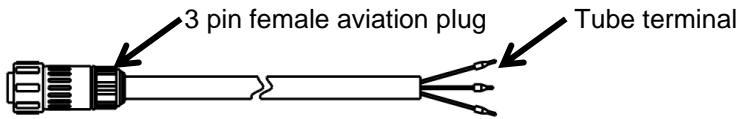
For Three Phase

Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2, connect the L3 to the grid L3, connect the N lead to the grid N, connect the PE lead to the grid PE



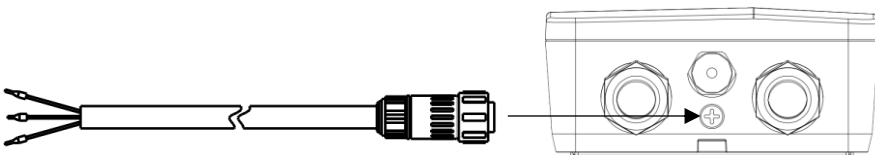
7.2 Load balancing connection (CT-BOX Optional)

Signal wire introduction



Signal wire connection

Connect the female aviation plug of the signal wire to the charger's load balancing socket and tighten them.

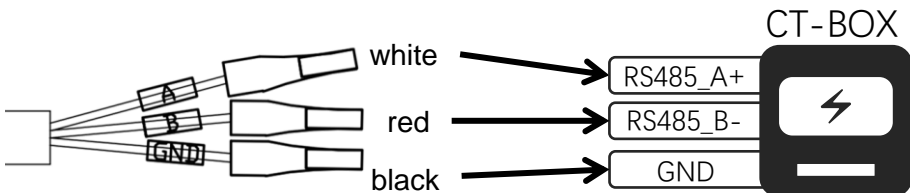


Connect three E0308 tube terminals of the signal wire to the CT BOX according to the number of the terminals and colors.

Connect white terminal to RS485_A+

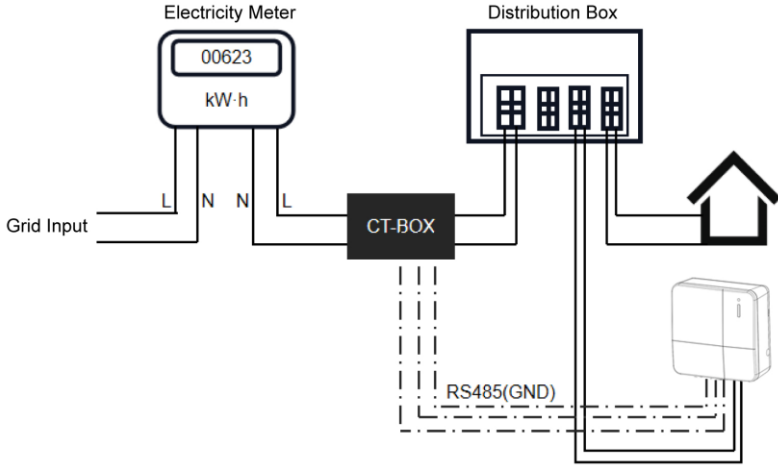
Connect red terminal to RS485_B-

Connect black terminal to GND

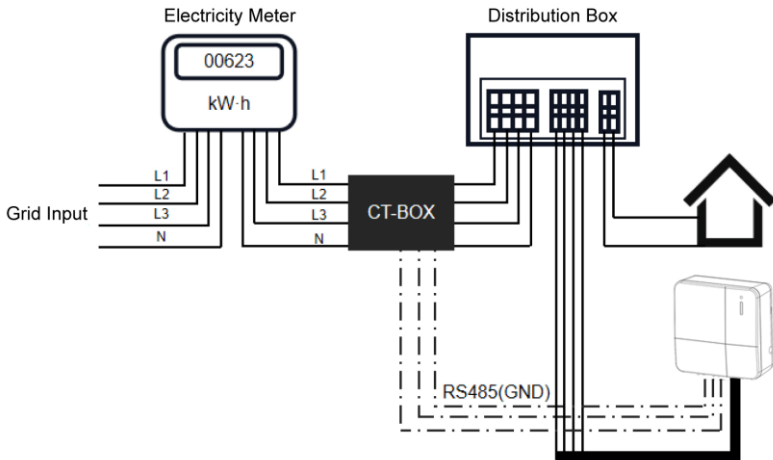


USER MANUAL

Single Phase

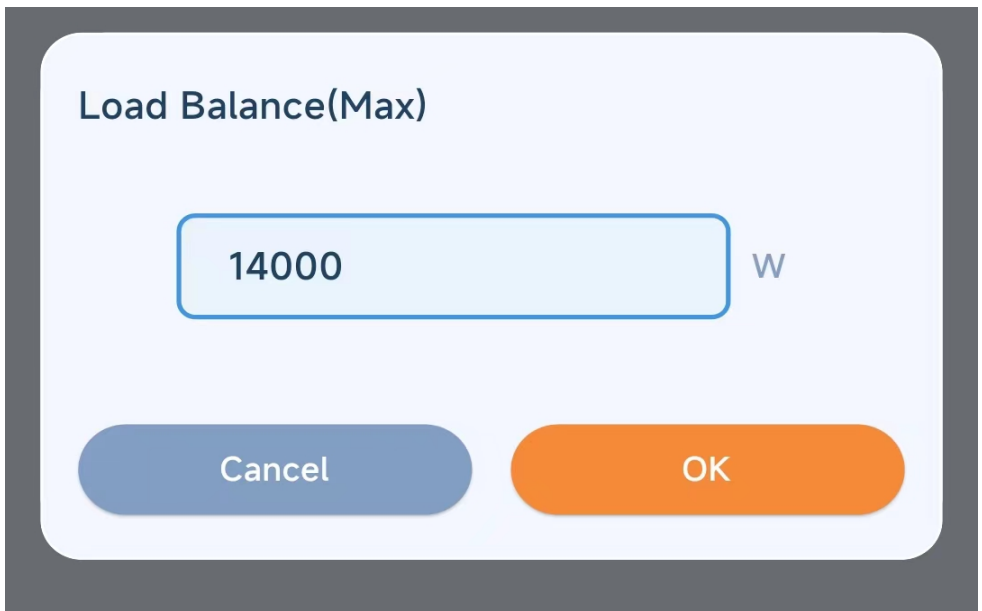


Three Phase



APP settings

After completing the circuit connection, please click gear icon which means advanced settings in the upper right of the app and set the max power. In order to avoid frequent tripping of the main circuit breaker during normal operation, it's recommended to set this value slightly lower than the maximum power supply of the main circuit breaker. For example, if the maximum power supply is 15000W, the maximum power of load balancing can be set to 13000W or 14000W



USER MANUAL

8. Operate Your Device



WARNING: This device should be supervised when used around children.



CAUTION: Please use the charger properly. Do not hit or press hard on the enclosure. If the case is damaged, please contact a professional technician.

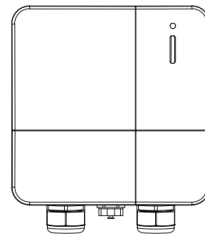


CAUTION: Do not put heavy objects on the charger to avoid danger.

8.1 Operating Steps with Plug and Charge

STEP 1

Standby Mode: After being powered on, the lights will be all on, blue light (READY), green light (CHARGE) and red light (FAULT). Then the blue light (READY) is constantly on in standby mode.



STEP 2

Plug the Charging Connector:

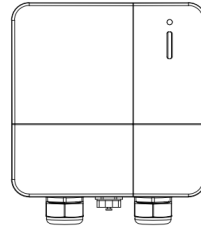
Please plug the charging connector into the vehicle charging inlet.



STEP 3

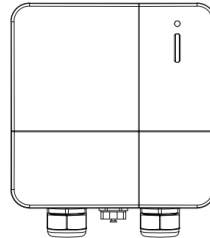
Charging: The green light (CHARGE) turns to flash automatically, charging is in process.

- If the red light (FAULT) is on, plug the vehicle connector again.
- If red light is still on, please refer to "Error and Warning Messages".



STEP 4

Charging finished: When the charging is finished, the green light (CHARGE) is constantly on, please press the button on connector and pull out the charging connector.



8.2 Smart APP Guide (Optional)

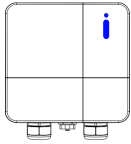
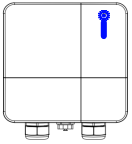
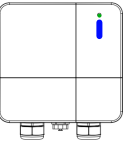
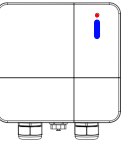
1. Download S-Charge app
2. Follow the tutorial in APP to connect your device.



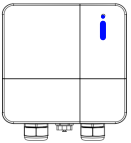
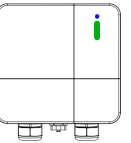
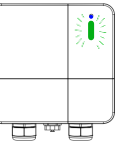
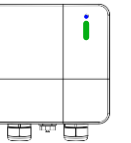
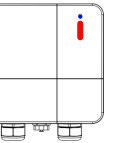
USER MANUAL

9. Light Codes

9.1 Signal Indicator

Not connected	Connecting	Connected	Connection failed
 A diagram of a rectangular signal indicator with two vertical sections. The right section contains a solid blue vertical bar.	 A diagram of a rectangular signal indicator with two vertical sections. The right section contains a blue vertical bar with a small blue dot above it, indicating a blinking light.	 A diagram of a rectangular signal indicator with two vertical sections. The right section contains a solid green vertical bar.	 A diagram of a rectangular signal indicator with two vertical sections. The right section contains a solid red vertical bar.
Solid blue	Blue blinking	Solid green	Solid red

9.2 Status Indicator

Standby, waiting to plug in	Waiting to charge, communicating with vehicle	Charging in progress	Finished charging	Fault
 A diagram of a rectangular status indicator with two vertical sections. The right section contains a solid blue vertical bar.	 A diagram of a rectangular status indicator with two vertical sections. The right section contains a solid green vertical bar.	 A diagram of a rectangular status indicator with two vertical sections. The right section contains a green vertical bar with a small green dot above it, indicating a blinking light.	 A diagram of a rectangular status indicator with two vertical sections. The right section contains a solid green vertical bar.	 A diagram of a rectangular status indicator with two vertical sections. The right section contains a solid red vertical bar.
Solid Blue	Solid Green	Green Blinking	Solid Green	Solid Red

9.3 Error and Warning Messages

Fault Status	Red
Voltmeter fault	1 flash followed by 3 sec pauses
Control pilot fault	2 flashes followed by 3 sec pauses
Input UVP	3 flashes followed by 3 sec pauses
Input OVP	4 flashes followed by 3 sec pauses
OTP	5 flashes followed by 3 sec pauses
OCP	6 flashes followed by 3 sec pauses
Ground fault	7 flashes followed by 3 sec pauses
Relay fault	8 flashes followed by 3 sec pauses
RCD abnormal	9 flashes followed by 3 sec pauses
RCD self-test fault	10 flashes followed by 3 sec pauses

10. Warranty and Maintenance

- The warranty period for this charger is two years.
- During the warranty period for any malfunction under normal use according to the User Manual and Service Instructions (to be determined by certified maintenance technicians of sellers), the product shall be repaired free of charge. Except for the following situations, the charger shall be subject to the above warranty terms:
 1. The warranty certificate cannot be provided or the contents of the warranty certificate are modified or inconsistent with the label indication of the repaired product.
 2. Those who are unable to provide valid proof of purchase.
 3. Those who exceed the manufacturer's specified warranty period.
 4. Those who damage the product due to not following the product service instruction for use, maintenance and storage.
 5. Damage or malfunction caused by external object entering.
 6. Unauthorized repair, disassembly or modification.
 7. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.).
 8. Malfunction and damage caused by other unavoidable external factors. Malfunction and damage caused by improper use of equipment, such as water or other solutions entering into the equipment.
 9. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

The above guarantees shall be made solely, and no other express or implied warranties shall be made (including the implied warranties of merchant ability, particular and applicable reason- ableness and adaptability, etc.) whether in the contract, civil negligence, or other aspects, the Company shall not be responsible for any special, incidental or consequential damages.