

Atlas AC Home Charger

User Manual

EN



Important Safety Instructions

Please read all instructions carefully before using this product.

This document describes the precautions to be paid attention to during the installation, operation, and maintenance of the product. Strictly follow the instructions in this document before installing and using the product.















-  **Warning:** Do not install or use wall-mounted connectors near flammable, explosive or combustible materials, chemicals or steam.
-  **Warning:** Before the equipment is powered on, make sure it is well grounded to avoid casualties caused by electric shock.
-  **Warning:** Before installing or cleaning Atlas chargers, turn off the input power of ALTAS chargers.
-  **Warning:** Before powering on the device, ensure that the input voltage, frequency, and other conditions meet product requirements.
-  **Warning:** The Atlas charger must be installed and used through a permanent wiring system or equipment lead.
-  **Warning:** Do not forcibly fold or press any part of the wall-mounted connector or damage it with a sharp object.
-  **Warning:** Do not spray water or other liquids directly into the Atlas charger. Do not spray water on the charging handle or soak the charging handle in liquid. Do not spray water on the charging base. After charging, please put the charging handle into the protection seat to avoid unnecessary pollution or moisture.
-  **Warning:** Wall-mounted connectors must be installed by personnel trained and qualified to operate electrical systems.
-  **Warning:** If the wall-mounted connector is defective, cracked, worn, cracked or otherwise damaged, or does not work properly, do not use Atlas charger and disconnect the input power in time.
-  **Warning:** It is strictly forbidden to remove the gun head in the charging process to ensure the safety of life and vehicles in the charging process.
-  **Warning:** If the soft power cord or EV cable is worn, broken or otherwise damaged, or cannot work normally, do not use Atlas charger and disconnect the input power in time.
-  **Warning:** During the charging process, the vehicle is prohibited from driving and can only be charged when stationary. Please turn off the hybrid electric car before charging it.
-  **Warning:** Do not attempt to remove, repair, tamper with, or modify the wall-mounted connector. Wall-mounted connectors are not user-serviceable equipment. For any repairs or modifications, please contact the saler.
-  **Warning:** Do not insert fingers or foreign objects into any part of the wall-mounted connector.

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Safety Features

Residual current detection (RCD)

Atlas AC home charger has integrated typeA 30mA + 6mA DC leakage protection residual current device (RCD) conforming to IEC standards, so there is no need to install RCD B type leakage protection circuit breaker outside unless the local grid require to.

The RCD leakage sensor automatically detects the balance state of alternating current between power supply wires. If the AC imbalance is detected, it indicates that the charger has leakage. This indicates that current flows out of the GROUND cable PE or the charger except the power supply cable, causing a shock hazard. If the leakage current is greater than or equal to 30mA, the charger stops output and generates an alarm.

DC residual current detection and protection module automatically monitors dc leakage. When detecting that more than or equal to 6mA dc is flowing out of the ground cable PE or the charger other than the power supply cable, the charger stops output and generates an alarm.

If the RCD fault occurs, please disconnect the input power of Atlas charger and remove the charging connector from the EV. Power it on again 5 minutes later. If the fault persists, please contact the electrician to check the power supply.

Short-circuit protection of the charging cable

In case of short-circuit, the value of I2t at the EV socket-outlet of the Mode 3 charger shall not exceed 75 000 A2s. In case of short-circuit, the value of I2t at the vehicle connector (Case C) of the Mode 3 charger shall not exceed 80 000 A2s.

Standards and certifications

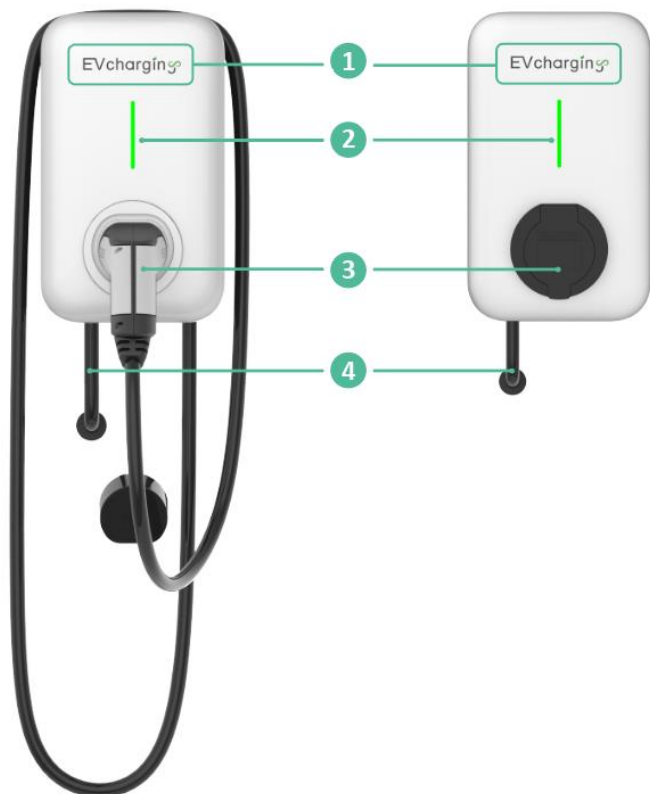
Electrical safety	EN 61851-1 EN 62955
Electromagnetic compatibility	EN 61851-21-2
Charging interface	EN 62196-1 EN 62196-2
Compatible with charging	EN 61851-1
Certification	CE RoHS

Product Specification

Model	A7-ST Socket	A11-ST Socket	A7-ST Cable	A11-ST Cable
Voltage Range	AC 183-276 Vac L-N	AC 320-480 Vac L-L	AC 183-276 Vac L-N	AC 320-480 Vac L-L
Rated Current	32A	16A	32A	16A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Rated Power	7kW	11kw	7kW	11kw
Wire	Single phase (1P+N+PE)	Triphasic (3P+N+PE)	Single phase (1P+N+PE)	Triphasic (3P+N+PE)
Network Type	TT, TN, IT	TT, TN, IT	TT, TN, IT	TT, TN, IT
Operating Temperature	-40°C~60°C	-40°C~60°C	-40°C~60°C	-40°C~60°C
Humidity	5~95%	5~95%	5~95%	5~95%
Altitude	≤2000m	≤2000m	≤2000m	≤2000m
Residual Current Detection	Integrated (RCD Type A 30mA + 6mA DC)	Integrated (RCD Type A 30mA + 6mA DC)	Integrated (RCD Type A 30mA + 6mA DC)	Integrated (RCD Type A 30mA + 6mA DC)
IP Rating	IP55	IP55	IP65	IP65
IK Rating	IK10	IK10	IK10	IK10
Weight	≤3kg	≤3kg	≤4kg	≤4kg
Product Dimensions	Height: 320 mm (12.6 in) Width: 190 mm (7.5 in) Depth: 110 mm (4.3 in)	Height: 320 mm (12.6 in) Width: 190 mm (7.5 in) Depth: 110 mm (4.3 in)	Height: 320 mm (12.6 in) Width: 190 mm (7.5 in) Depth: 110 mm (4.3 in)	Height: 320 mm (12.6 in) Width: 190 mm (7.5 in) Depth: 110 mm (4.3 in)
Bracket Dimensions	Height: 286.5 mm (11.3 in) Width: 168.9 mm (6.6 in) Depth: 52.2 mm (2.0 in)	Height: 286.5 mm (11.3 in) Width: 168.9 mm (6.6 in) Depth: 52.2 mm (2.0 in)	Height: 286.5 mm (11.3 in) Width: 168.9 mm (6.6 in) Depth: 52.2 mm (2.0 in)	Height: 286.5 mm (11.3 in) Width: 168.9 mm (6.6 in) Depth: 52.2 mm (2.0 in)
Charging Cable Length	/	/	3.5m or 5m or 7m	3.5m or 5m or 7m
Ventilation	Don't need	Don't need	Don't need	Don't need
Wi-Fi	2412~2462MHz 20dBm 3.42dBi	2412~2462MHz 20dBm 3.42dBi	2412~2462MHz 20dBm 3.42dBi	2412~2462MHz 20dBm 3.42dBi
Bluetooth	2402~2480MHz 20dBm 3.42dBi	2402~2480MHz 20dBm 3.42dBi	2402~2480MHz 20dBm 3.42dBi	2402~2480MHz 20dBm 3.42dBi
Certifications	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS
Safety Protection	Overcurrent, overvoltage, undervoltage, over temperature, sticking relay, ground continuity monitoring, household power use protection, residual current protection, integrated surge protection			

Components & Features

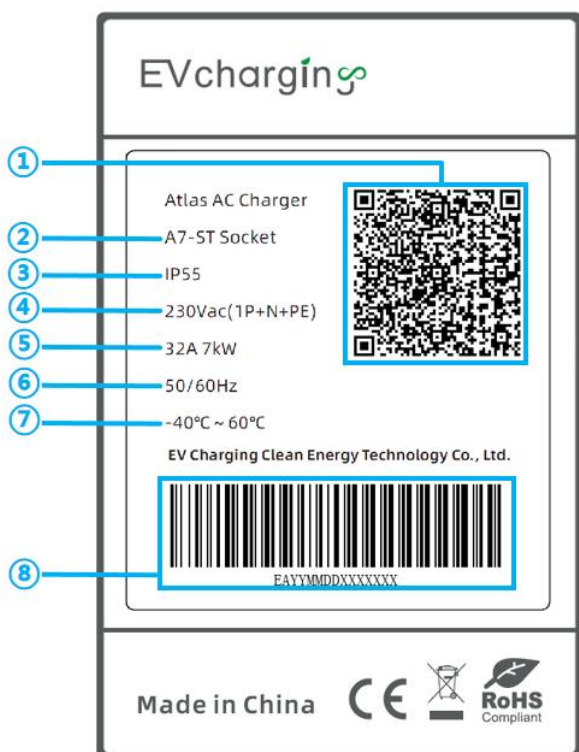
Product Enclosure



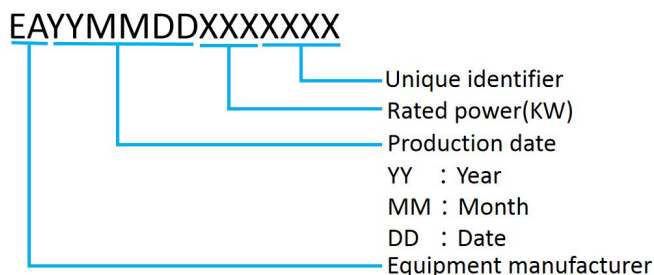
- ① **Sweep card area:** The integrated RFID reader allow charging cards scanned. Atlas will read the information on your card to determine whether it is allowed to start or stop charging.
- ② **LED indicator:** Light in different colors and display mode to reflect the real-time status of the charger. Read more about it's color in chapter 'LED Indicator Status'.
- ③ **Charging connector:** For cable version, can directly connect between the charger and the electric vehicle, insert the charging gun into the vehicle, after finished charging, please insert the charging gun back into the charging seat. For socket version, please use additional charging gun to plug into the socket.
- ④ **Input line of charger:** Alternating current is fed into the charger.

Label Information

There is a label on the right side of each charger with unique information of the product.



- ① QR code: Embedded with unique serial number of the charger, supports scanning to binding and charging.
- ② Model name
- ③ IP Rating
- ④ Rated voltage
- ⑤ Rated current
- ⑥ Frequency
- ⑦ Operating temperature range
- ⑧ The serial number: Contain information about the available power rating and production date, can refer to the following instructions.



Installation steps

Choose the circuit breaker before installation

For safe use of Atlas Charger and maximum output power, please install circuit breaker as suggestion:

1. A single-phase 40A circuit breaker at the input line of 'A7-ST Socket' or 'A7-ST Cable'.
2. A three-phase 20A circuit breaker at the input line of 'A11-ST Socket' or 'A11-ST Cable'.

Atlas Home Charger is integrated with type A 30mA AC and 6mA DC leakage protection, you can choose to install a separate residual current device (RCD) type B leakage protection circuit breaker according to your need for a wall-mounted charger.

WARNING: Turn off the power before begin the wiring. Use extreme caution and follow instructions carefully.

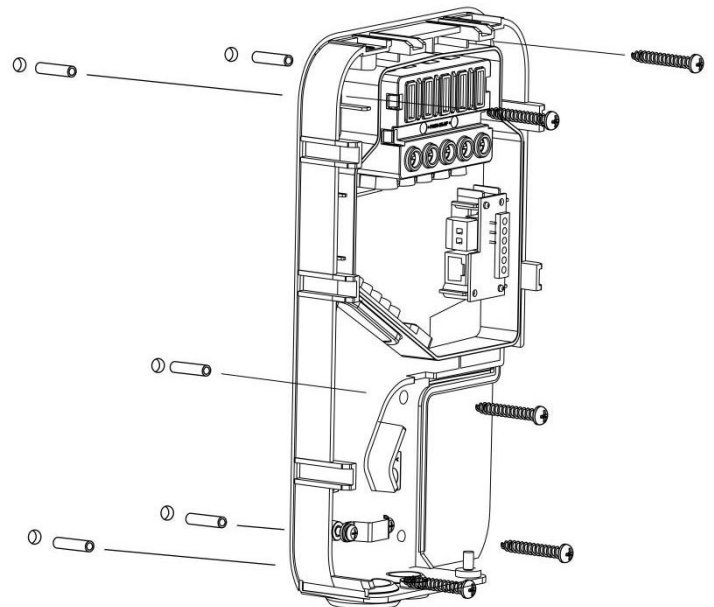
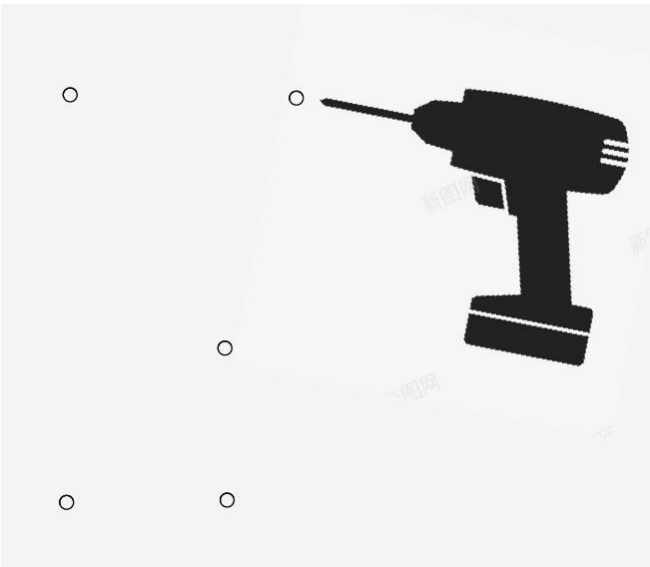
Note: Do not open forcibly, it will cause damage to the product.

1 Wall-mounting/Pole-mounting

1. Drill 5 holes using ϕ 10 drill bit on the wall, with a depth of about 60mm. (recommended installation height: 50–150cm)
2. Insert 5 expansion tubes into the fixing hole completely.

For wall-mount, fix the backplate using 5 PA6*50mm tapping screws.

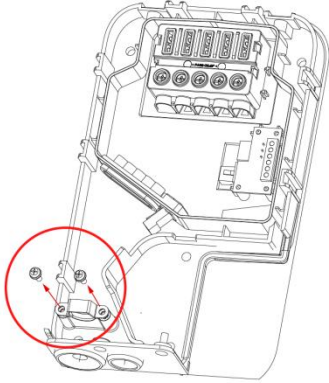
For pole-mount, fix the backplate using 5 M5*16mm combination screws.



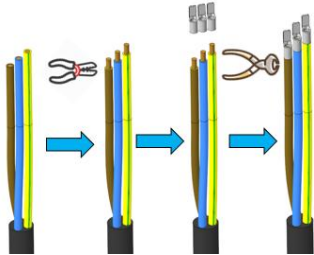
2 Wiring

Input power cable

1. Release the two screws which used for fix input power line.

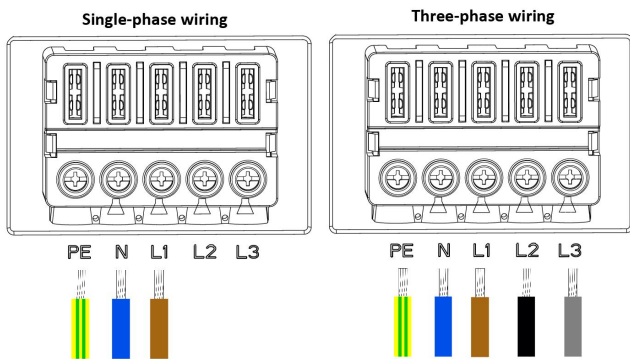


2. Strip the individual wires by about 7 to 10 mm (0.3 to 0.4in). Wrap the terminal blocks in the accessory kit to the core. Use pliers to crimp the terminals firmly.



Note: Ensure that the insulation rubber of the AC input cable is flush with the indicator position on the bottom plate.

3. Press the AC input cable with cable crimp ring, and connect the PE-N-L1-L2-L3 cable to the corresponding port. The following connection is for TN grid.



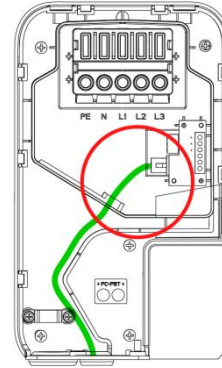
4. After finished wiring input power cable, please lock the 2 screws in step 1 back.



Note: For single-phase cables, require at least 32A cables as input cables. For three-phase cables, require at least 16A cables as input cables.

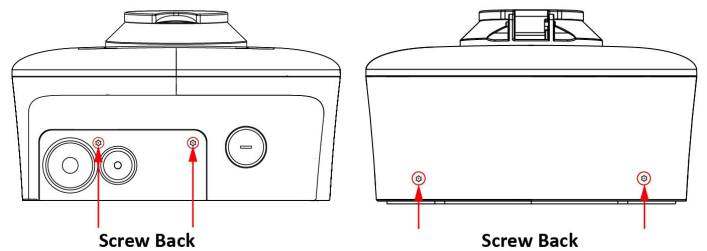
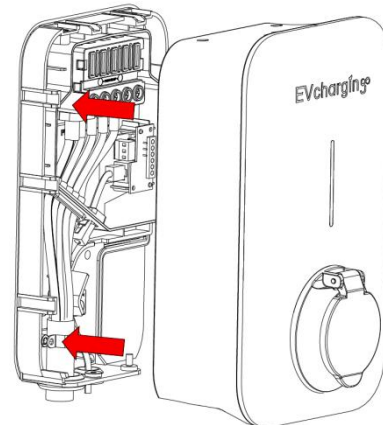
Ethernet line

5. It is recommended to use a network cable of Category 5e or above.



3 Attaching Back and Power on

1. Once all cable have been inserted, install the product body back to backplate and lock the 4 M4*10mm hexagon socket screws.



2. Turn on the power. The Atlas Charger now electrically live and will show purple breathing lamp (offline idle).



Networking Configuration

1 Install APP


1. Search for 'EVCharging' in Google Play or Apple Store to install.

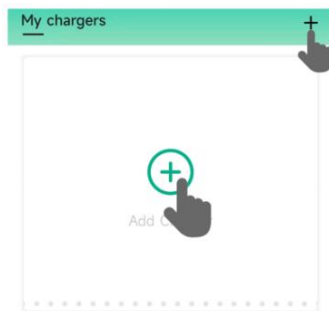


2. Open the APP and click 'Sign Up' at the bottom to complete the account registration.

2 Binding

Note: Before binding, make sure the phone can get network.

1. Go to 'My chargers' page, the button is at the bottom.
2. Click  in the center or '+' in the upper right corner.



3. Scan the QR code of the label on the right side of the product body or enter the serial number of the charger.
4. Name your Atlas home charger and click 'Confirm' to complete.

3 Network Setting

Atlas AC home charger only supports WPA2/3-secured, 2.4 GHz, 802.11 infrastructure mode networks.

Follow below steps to set network:

1. Open bluetooth first, since the phone communicate with charger by bluetooth.
2. Go to 'My chargers' page, click 'Network Settings'.
3. Select which way used for connecting network, Ethernet or wifi.
4. Once the charger is successfully connected to the

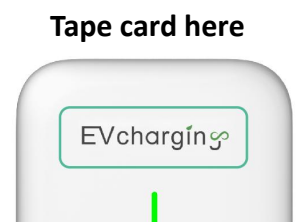
network, the indicator light will turn sky blue breathing lamp (online idle).



Note: Only the owner can set network, the other family members can not.

4 Card Binding

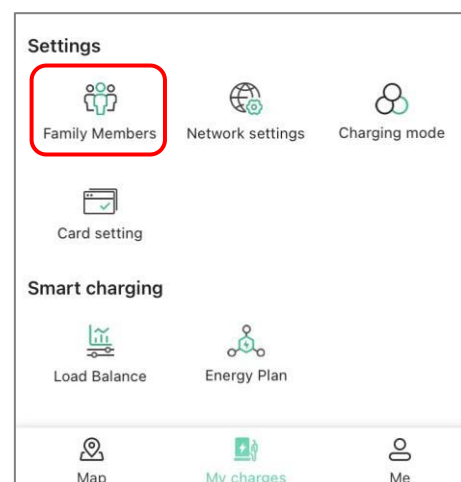
1. Go to 'Me' page ----> 'My cards' page ----> 'Bind'.
2. Input UID of the card and click 'Confirm' to complete card binding.



Member management

You can share the Atlas AC home charger with your family or friends.

1. Go to 'My chargers' page, click 'Family members'.



2. Click 'Add' and enter the name of the family member's email.

Note: Only the Atlas AC home charger owner can Member management.

Device Maintenance

Maintenance of the charger must be performed only by qualified personnel per the applicable local regulations. Unauthorized installation and modifications make the manufacturer warranty void

1 General maintenance

If the product is installed in public spaces and is accessible to everyone, suggest follow the procedures below.







1. Ensure that the charger does not have any signs of mechanical damage.
2. Visually inspect the Type 2 socket for wear and tear at regular intervals according to local regulations. If the pins are discoloured or damaged, please contact your authorised electrician.

2 Cleaning

The product does not require cleaning to operate properly. Nevertheless, if the product needs to be cleaned for cosmetic reasons, this is possible.

1. Use a damp cloth and an all-purpose household cleaner. Avoid using strong chemicals that contain oil or alcohol, as this will discolour the plastic.
2. Do not use running water or high pressure water jets.

Status Indicator Light

		
Sky blue breathing lamp Online standby	Purple breathing lamp Offline standby	Green water lamp In the charging
		
All bright sky blue Online to Be started	All bright purple Offline to Be started	Red flashing Failure to disable

Please feel free to contact us if you have any problem with the charger.

You can also get the detailed product manual through our official website.

We'd love to hear from you, please reach out to us at

<http://www.evchargingplus.com>.

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