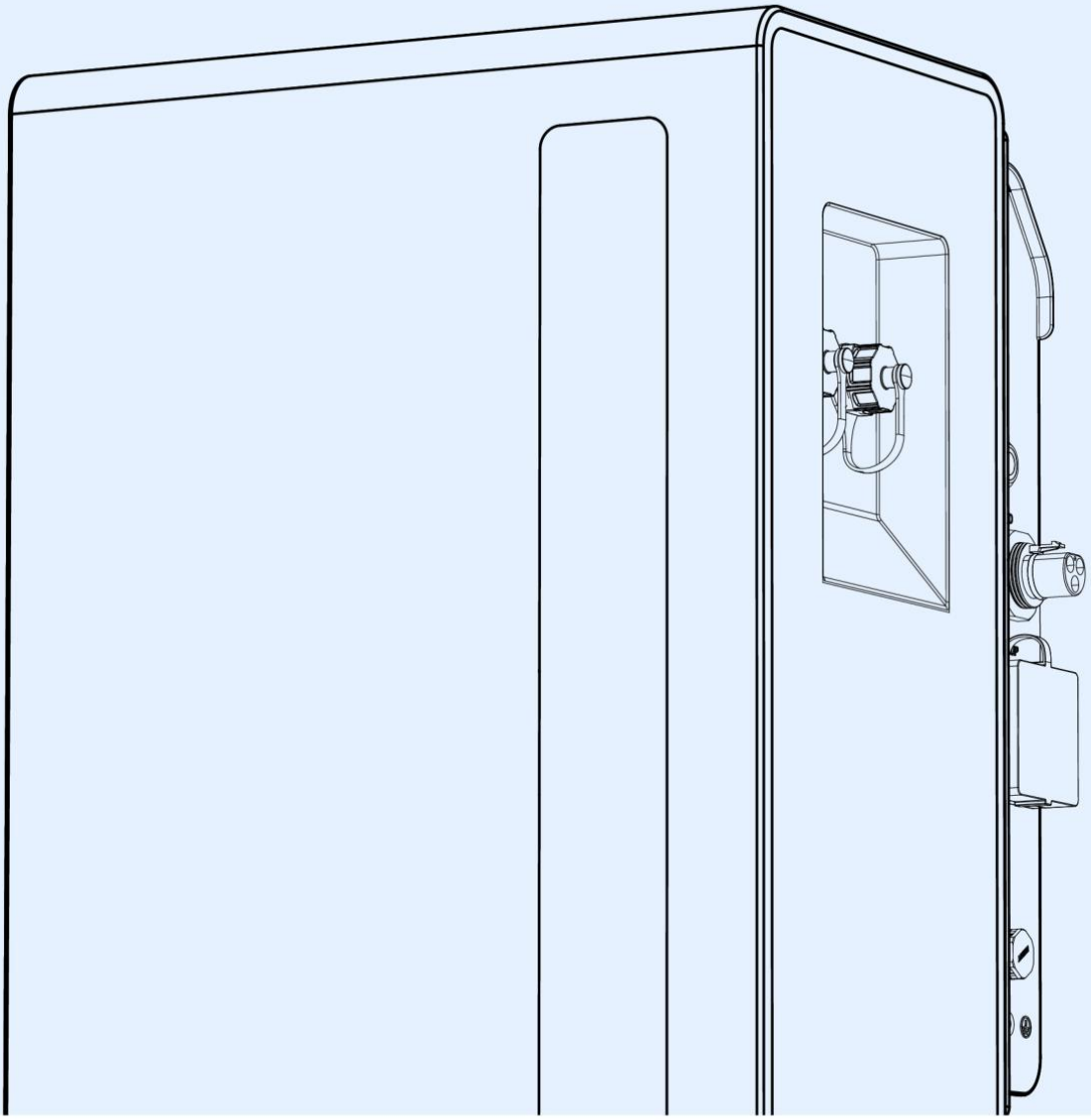
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Atlas 6000 AC

Plug-in Energy Storage System

User Manual

Issue: 01
Date: 2026-04-14

Make Energy Yours

Contact: business@conow.com
Website: https://www.conow.com

About This Document

Overview

This manual introduces the Atlas 6000 AC Plug-in Energy Storage System and provides instructions for installation, operation, network configuration, maintenance, troubleshooting, and emergency handling.

This manual applies to the product models listed in the technical specifications. Product appearance, accessories, functions, App screens, and available services may vary by country/region, product version, and firmware version. All illustrations are for reference only. Please refer to the actual product and the latest in-app instructions.

Who This Guide Is For

- Installers and solution designers
- Service technicians
- Sales engineers
- End users

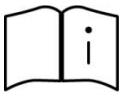
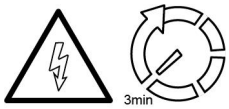
Safety Symbol Specification

The following symbols may be used with the meanings below:

Attention Symbol	Description
DANGER	A high hazard level indicates that non-compliance or not taking preventative measures could result in death or serious injuries.
WARNING	Medium hazard level signifies that non-compliance or not taking preventative measures could lead to death or serious injuries.
CAUTION	A low hazard level represents the possibility of minor injuries if not compliant or preventive measures are not taken.
NOTICE	The presence of potential risks signifies that non-compliance or not taking precautions could lead to equipment damage or other unpredictable impacts.

NOTE	This expresses additional key information and does not involve alerts about equipment or personal safety.

Symbol Description

Symbol	Description
	Electrical hazard, do not touch.
	Pay attention to safety.
	High temperature hazard, do not touch.
	Read the user manual and all safety instructions carefully before installation, operation, and maintenance.
	Do not dispose of the device as household waste. Follow local electronic waste disposal regulations.
	The product is recyclable
	The device complies with the essential requirements of the relevant EU legislation.
	Wait at least 3 minutes after all voltage sources are disconnected before servicing.
	Indicates the position for connecting the protective earthing (PE) cable.

Revision History

This section records all updates made to this document.

Issue: 01 (2026-04-13)

This issue is the first official release.

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1 Safety Instructions

Statement

Before installing, operating, or maintaining the Atlas 6000 AC, read this manual and all safety instructions carefully. Follow all warnings on the product and in this manual.

This manual does not replace local laws, grid connection rules, electrical installation standards, or industry practices. The installation and use of the product must comply with all applicable local regulations and standards.

The product must only be used within the specified operating conditions. Damage, malfunction, personal injury, or property loss caused by improper installation, misuse, unauthorized modification, or operation outside the specified conditions is not covered by the warranty.

General Requirements

- Installation, operation, and maintenance must be performed according to the sequence in the manual. Do not modify, add to, or change the equipment arbitrarily, nor should you change the installation sequence on your own.
- It is strictly forbidden to manually alter, damage, or cover the marks and nameplates on the equipment. Replace any markings that have become faded from long-term use.
- Please use batteries within the prescribed temperature range. Charge is prohibited when the environmental temperature is below the lower limit of the operating temperature to avoid internal short circuits caused by low-temperature charge.
- Before unpacking the battery, check to ensure that the packaging is intact. Batteries with damaged packaging must not be used. If damaged, immediately inform the transporter and the manufacturer.
- Battery damage (falls, collisions, swelling or dents in the casing, etc.) may lead to the release of leakage or flammable gases. Do not use a damaged battery. When the battery shows signs of leakage or structural deformation, immediately contact the installer or a professional for removal and replacement. Do not store damaged batteries near other devices or combustible materials, and non-professionals should not approach the damaged battery.
- If the battery unintentionally gets wet, do not continue the installation and

promptly move it to a safe isolation point for scrapping.

- If the battery will not be used for a long time, it should be stored and charged according to the battery requirements.
- It is prohibited to use equipment that does not comply with local laws, regulations, and standards for charge and discharge.
- When the battery fails, the surface temperature may become too high. Avoid touching it to prevent burns.
- Do not stand, lean, or sit on the equipment.
- Do not use the battery for the following purposes.
  - For medical devices directly related to human life.
  - For control equipment such as trains, elevators, etc., which may cause personal injury.
  - For computer systems of social and public importance.
  - At locations near medical devices.
  - For any equipment within the descriptions above.

Grounding

- The equipment's grounding impedance should meet local electrical standards.
- The equipment should be permanently connected to protective ground. Before operating the device, check the electrical connections of the equipment to ensure reliable grounding.

Battery Safety

- Do not expose batteries to high-temperature environments or heat-emitting equipment, such as intense sunlight, fire sources, transformers, heaters, etc. Overheating a battery may lead to leaks, smoke, the emission of flammable gases, thermal runaway, fire, or explosion.
- It is strictly forbidden for batteries to be subjected to mechanical vibrations, falls, collisions, hard object punctures, and pressure impacts. Otherwise, it may cause battery damage or fires.
- Dismantling, modifying, or damaging the battery (such as inserting foreign objects, crushing with external forces, or immersing in water or other liquids) is strictly prohibited, to avoid leaks, smoke, the emission of flammable gases, thermal runaway, fire, or explosion.
- Battery electrolyte is toxic and volatile. In the event of electrolyte leakage or abnormal smell, avoid contact with the leaking liquid or gas. Non-professionals should keep their distance and immediately contact professionals. Professionals should be equipped with safety goggles, rubber gloves, gas masks, protective suits, etc., disconnect the equipment promptly, remove the leaking battery, and contact the technical engineers.
- A battery is a sealed system and will not release any gases under normal operation.
- However, under extremely misused circumstances such as fire, stabbing, squeezing, lightning strike, overcharge, or other situations that could potentially lead to thermal runaway, battery damage or abnormal chemical

reactions within the battery could occur, resulting in electrolyte leakage or the generation of gases such as CO, H2. Ensure that flammable gas emissions are properly managed at the site to avoid causing combustion or corroding equipment.

Recycling and Disposal

- Please handle waste batteries according to local laws and regulations. Do not treat batteries as domestic waste. Improper battery disposal may result in environmental pollution or explosions.
- If the battery leaks or is damaged, please contact technical support or a battery recycling company for disposal.
- When the battery is end of life and unusable, please contact a battery recycling company for scrapping.
- Avoid exposing waste batteries to high temperatures or direct sunlight.
- Avoid exposing waste batteries to high humidity or corrosive environments.
- Faulty batteries are prohibited from being used for a second time. Contact a battery recycling company for disposal as soon as possible to prevent environmental pollution.

Storage

- Batteries should be stored indoors, where they are not exposed to direct sunlight or rain, in a well-ventilated and dry environment. The surrounding area should be kept clean and free from significant radiation, such as infrared rays, organic solvents or corrosive gases, and conductive metallic dust, and the storage should be far from heat sources and flames.
- Suppose a battery fault occurs (carbonization, leakage, expansion, water ingress, etc.).In that case, it must be promptly moved to a hazardous materials warehouse for isolated storage, at a distance of no less than 3 meters from any surrounding combustible materials, and be disposed of as quickly as possible.
- When storing batteries, they should be placed correctly according to the indications on the packaging box. It is strictly forbidden to place them upside down, sideways, or at an angle. When stacking, the arrangement should adhere to the requirements mentioned on the outer packaging.
- When storing batteries, please store them separately to avoid mixing with other equipment and prevent batteries from being stacked too high. When a large number of batteries are being stored on-site, it is recommended to have appropriate fire-fighting equipment on hand, such as fire sand and fire extinguishers.
- It is recommended to use the battery promptly. For batteries that are stored for a long time, please carry out regular recharging, otherwise, it may cause battery damage.
- The storage environment must meet local legal regulations and standard requirements.
- The environmental air should not contain corrosive or flammable gases.

- Storage environment requirements:
  - Ambient Temperature: -20°C to +55°C, recommended storage temperature: 20°C-30°C.
  - Relative Humidity: 10%RH-85%RH.
- When exceeding the storage period, it is required to undergo inspection and testing by professionals before use.
- During storage, it is necessary to keep relevant evidences that meet the product storage requirements, such as temperature and humidity log data, storage environment photos, and inspection reports.
- When shipping batteries, follow the principle of first in, first out.
- Storage time should be calculated from the most recent charge time indicated on the battery's external packaging. After the charge, update the most recent charge time.

Transportation

- Prohibit rough handling during installation or removal as it may result in battery short circuit, damage (such as leakage or rupture), fire, or even explosion.
- During transport, the battery should be moved following its specified orientation. Arbitrary handling of the battery is prohibited.
- Before unpacking the battery, during storage and transportation, ensure the outer packaging box is intact and undamaged. Arrange it as indicated by the marks on the box, sternly disallowing inverting, putting it on its side, standing it up, or tilting. When stacking, follow the order given on the packaging to prevent any collisions or falls that could damage and ruin the battery.

- Batteries have obtained the certifications of the UN38.3 (UN38.3: section 38.3 of the sixth Revised Edition of the Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria) and SN/T 0370.2-2009 (Part 2: Performance Test of the Rules for the Inspection of Packaging for Exporting Dangerous Goods). This product belongs to class 9 dangerous goods.
- The transport service provider should be qualified to transport the corresponding equipment.
- Comply with the international transport rules for dangerous goods and meet the regulatory requirements of the transport regulatory authorities of the country of origin, route, and destination of the transport.
- Maritime transport must comply with the *International Maritime Dangerous Goods Code* (IMDG Code).
- Road transport must comply with the *Agreement Concerning the International Carriage of Dangerous Goods by Road* (ADR) or JT/T 617.
- Before transportation, it is essential to verify that the battery packaging is complete and undamaged and that there are no unusual smells, liquid leakage, smoke, or fire. If any of these conditions are present, transportation is prohibited.
- The box used for transportation must be sturdy. During loading, unloading, and transport, it should be handled gently and kept moisture-proof.
- When moving the battery, careful attention should be taken not to knock or drop it.
- Unless otherwise provided, hazardous materials cannot be mixed in the same vehicle or

container with goods containing food, medicines, animal feed, or their additives.

- Unless otherwise specified, when hazardous goods are loaded with ordinary goods in the same vehicle or container, one of the following isolation methods should be adopted:
  - Using a barrier that is the same height as the package
  - Keeping a separation of at least 0.8m on all sides
- Before moving a faulty battery (carbonized, leaking, swollen, water ingress, etc.), the positive and negative terminals should be insulated. After packing, it should be rapidly placed in an insulated explosion-proof box, and a record should be kept on the outer box, including details such as the name of the site, address, time, and observed issues.
- Faulty batteries should be moved away from the site during transportation and avoid areas where flammable materials are stored, residential areas, or other places where people often gather, such as public transport vehicles or elevators.

2 Product Introduction

2.1 System Overview

Overview

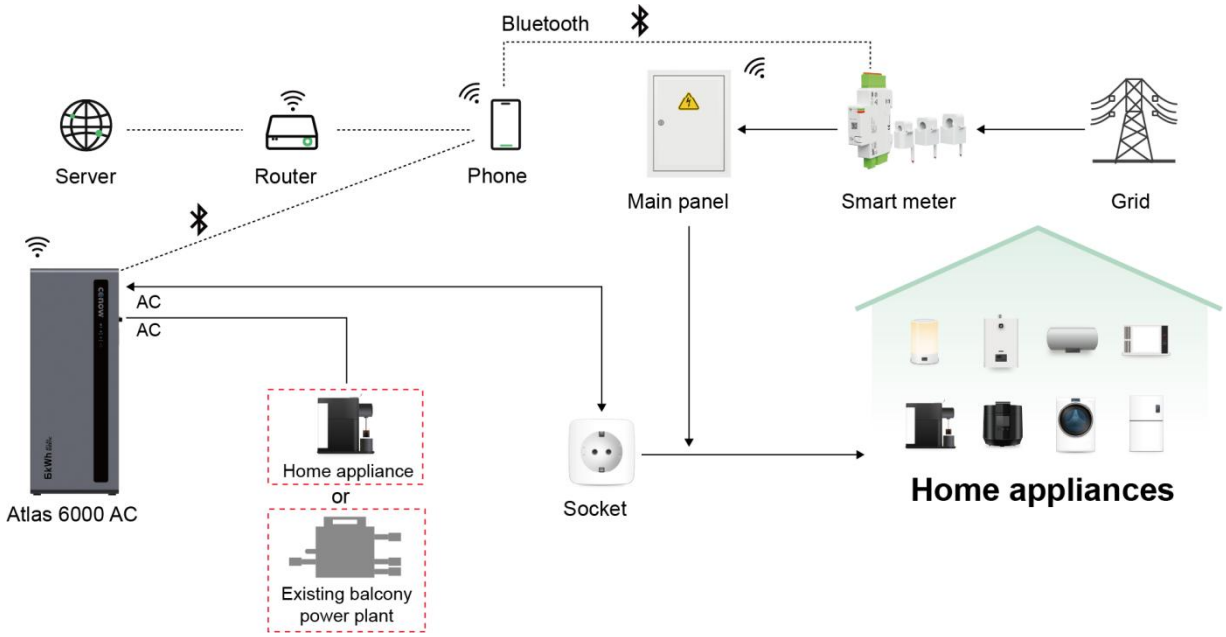
Atlas 6000 AC is a plug-in AC-coupled energy storage system designed for existing balcony solar and home PV systems.

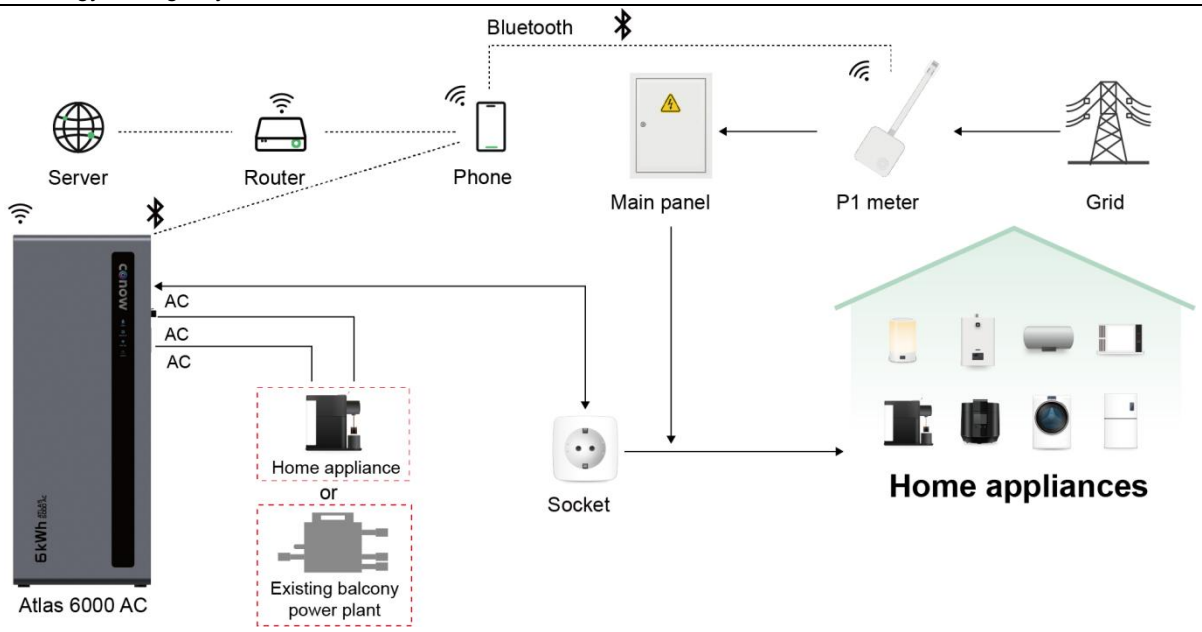
It stores surplus solar energy or grid energy and supplies power when it is needed most. With CONOW ECO App control, Atlas 6000 AC can support self-consumption optimization, dynamic tariff scheduling, export power limiting, and backup power for essential loads.

With up to 3000 W AC output and 6 kWh usable capacity, Atlas 6000 AC helps households improve solar self-consumption, reduce electricity costs, and maintain basic power supply during short grid outages.

System Diagram

Figure 2-1 Atlas 6000 AC System Diagram

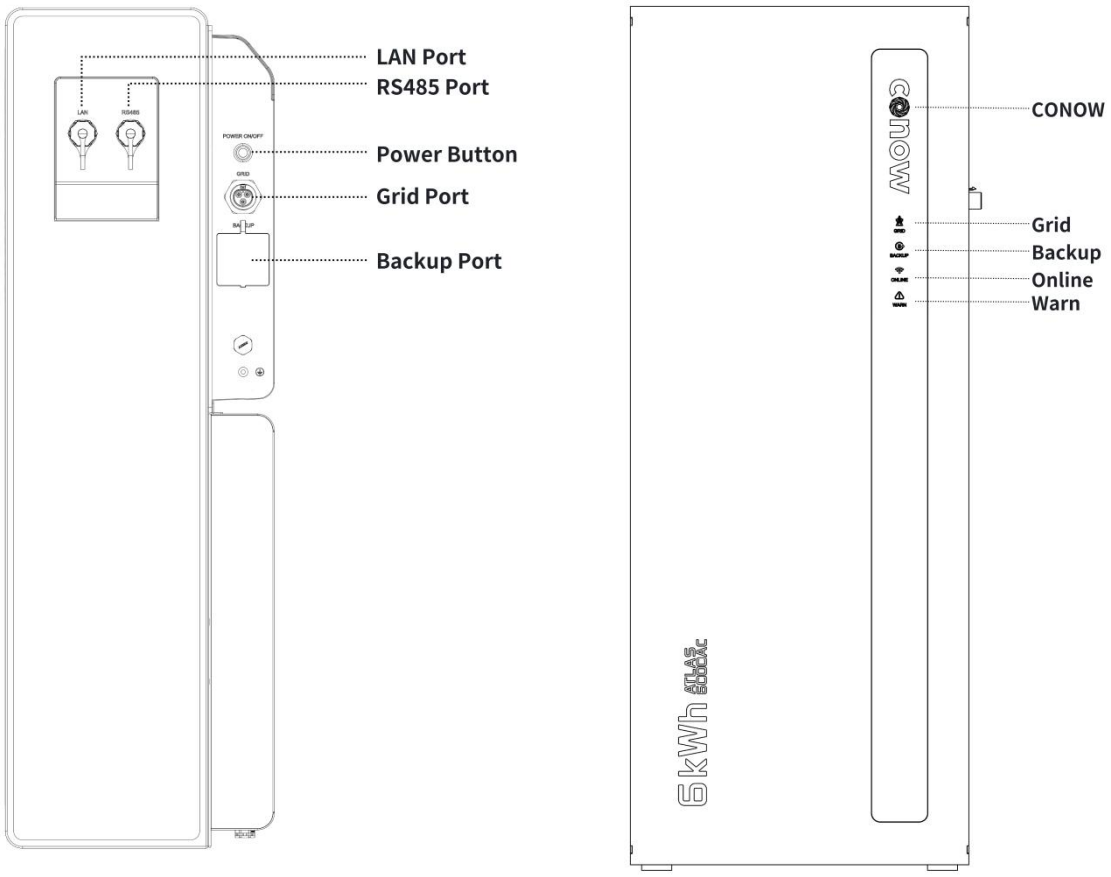




- The Backup port is an off-grid AC output for essential loads, such as a router, lighting, laptop, refrigerator, or other household appliances within the rated output power.
- Do not connect the Backup port to the public grid or to any grid-connected household circuit. Any connection to an existing PV system, micro-inverter, or household electrical circuit must follow the approved wiring configuration and comply with local electrical regulations.

2.2 Interfaces

Figure 2-2 Atlas 6000 AC Product Details



LED Display

Figure 2-3 Atlas 6000 AC LED Display



Table 2-1 Indication Light Description

Indicator	Color	Status	Description
CONOW	Green	Breathing	The battery is charging.
	Green	Steady On	Battery Level > 20% (Backup SOC)
	Orange	Steady On	Battery Level < 20% (Backup SOC)
	RGB	Flowing Light	AI Mode Enabled and Running (On-Grid Mode Active)
Grid	White	Off	Grid Not Connected (On-Grid Mode Disabled)
		Steady On	Grid is connected and the system is in standby.
		Flashing	The system is charging from or discharging to the grid.
Backup	White	Off	Backup output is disabled.
		Steady On	Backup output is enabled and in standby.

		Flashing	Backup output is supplying power or receiving supported AC input.
Online	White	Off	Communication module is disabled.
		Slow Breathing	Network configured but currently disconnected.
		Fast Blinking	Ready for network pairing.
		Steady On	Connected to network.
Warn	Red	Off	No warning or fault detected.
		Slow Breathing	Warning detected. Check the App for details.
		Fast Blinking	Critical fault or protection triggered. Check the App and stop using the device if required.
All indicators except Warn	White+ RGB	Slow Breathing	Firmware update in progress. Do not power off the device.
		Fast Blinking	Device locator is active.

Button Control

Power Button:

- **Power On:** Press and hold the power button for 1 second until the indicator turns on.
- **Power Off:** Press and hold the power button for 2–5 seconds. The indicator light will turn off.
- **Network pairing:** Press and hold the power button for 5–10 seconds until the Online indicator blinks. After network configuration is completed, the Online indicator will remain steady on.

Note:

- After the device is powered on, the indicator lights turn on automatically when a person is detected within approximately 2 meters. The lights turn off automatically about 60 seconds after the person leaves.
- When the device is in under-voltage protection or low SoC status, pressing the power button will temporarily turn on the indicator lights. If no further action is taken, the lights will turn off automatically after about 20 seconds.

2.3 Technical Specifications

Table 2-2 Atlas 6000 AC Technical Specifications

Model	CME07-2BL600	CME07-2BL600-07	CME07-2BL600-08	CME07-2BL600-20
Battery				
Capacity	6028Wh			
Usable Capacity	6000Wh [1]			
Voltage Range	16.2V - 21.6V			
Rated Voltage	19.2V			
Rated Power	3000W			
Max.Charge Current	180A DC			
Max.Discharge Current	180A DC			
Life Cycle (Times)	> 10000 (25°C)			
Battery Type	LiFePO4			
On-grid Terminal (AC)				
Rated Input Power	3000 W			
Rated Input Current	13.7 A a.c.			
Rated Output Power	3000 W	799 W	800 W	2000W
Rated Output Apparent Power	3000 VA	799VA	800 VA	2000VA
Rated Output Current	13.7 A a.c. (at 220V) / 13.0 A a.c. (at 230V)	3.7 A a.c. (at 220V) / 3.5 A a.c. (at 230V)	3.7 A a.c. (at 220V) / 3.5 A a.c. (at 230V)	9.1 A a.c. (at 220V) / 8.7 A a.c. (at 230V)
Total Harmonic Distortion	< 3%			
Power Factor	0.8 lagging - 0.8 leading			
AC Nominal Input/Output Voltage	L+N+PE 220 V a.c. / 230 V a.c., 50 Hz			
Off-Grid Terminal (AC)				
Rated Output Power	3000W			
Rated Output Apparent Power	3000 VA			
Rated Output Current	13.7 A a.c. (at 220V) / 13.0 A a.c. (at 230V)			
AC Nominal Output Voltage:	L+N+PE 220 V a.c. / 230 V a.c., 50 Hz			
Backup Output Peak	4500W（1.5s）			
EPS Switching Time	≤10 ms			
Environmental and Mechanical				
Communication	Wi-Fi & Bluetooth LE; RS485; LAN			
Charge Temperature Range	0°C to +55°C			
Discharge Temperature Range	-20°C to +55°C			

Model	CME07-2BL600	CME07-2BL600-07	CME07-2BL600-08	CME07-2BL600-20
Operating Humidity	≤85%RH (non-condensation)			
Recommend charging method declared by the manufacturer	Charge the battery at constant current 157A until voltage reaches 21.6V, then charge at constant voltage 21.6V till charge current is 15.7A			
Storage Humidity	10% - 85%RH (non-condensation)			
Ingress Protection	IP65			
Cooling Mode	Natural Convection			
Dimensions (W × H × D)	805*315*256 ±2 mm			
Weight	55.9±1 kg			
Maximum Altitude Rating	≤ 2000 m			
Warranty	10 years			
Self-consumption	< 10W			
Pollution Degree	PD III			
Topology Type	Isolation			
Efficiency				
Max.Efficiency	95%			
Protection				
Protective Class	Class I			
Over Voltage Category	AC.OVC III, DC.OVC II			
Inverter Topology	Isolated			
Overvoltage Protection	Yes			
Undervoltage Protection	Yes			
Over-frequency Protection	Yes			
Underfrequency Protection	Yes			
Short Circuit Protection	Yes			
Reverse Connection Protection	Yes			
Over Temperature Protection	Yes			
Certification and Compliance				
Grid connection	EN 50549-1:2019; EN 50549-10:2022; VDE-AR-N 4105:2018; DIN V VDE V 0124-100:2020; EN50549-1.NEN; EN50549-1 + BWBR0037940 Netcode elektriciteit:2022; NF 50549-10; EN50549-1 + C10/11:2024 ed.2.3; OVE-Richtlinie R 25:2020; TOR Erzeuger Typ A:2022; CEI 0-21:2022; CEI 0-21 V2:2024			
Electrical safety	EN/IEC 62477			
EMC	EN 61000-6-1; EN 61000-6-3; EN 61000-3-2; EN 61000-3-3; IEC 61000-4-2; IEC 61000-4-3; IEC 61000-4-4; IEC 61000-4-5; IEC 61000-4-6; IEC 61000-4-8; IEC 61000-4-16; IEC 61000-4-18; IEC 61000-4-29			

Model	CME07-2BL600	CME07-2BL600-07	CME07-2BL600-08	CME07-2BL600-20
Wireless / RF	ETSI EN 301 489-1; ETSI EN 301 489-17; ETSI EN 300 328; EN 62311			
Battery safety and transport	IEC 62619:2022; UN 38.3; MSDS			
Environmental	RoHS 2.0			
Network Services				
Device Services, the device has enabled the following services, which are used for device initialization and functions during normal operation. TCP: Used for AP network configuration and LAN (Local Area Network) communication. UDP: Used for broadcast basic information between device and app. BLE Service GATT Service: Used for network configuration. Modbus Service: Used for communication between the device and external energy management systems (EMS) or third-party monitoring devices.				

Notes for Technical Specifications

1. Usable capacity is tested at 25°C under standard charge and discharge conditions. Actual usable capacity may vary depending on ambient temperature, operating mode, load profile, battery age, and system settings.
2. Rated on-grid output power varies by model and must comply with local grid connection requirements. The output power limit can be configured in the App where supported.
3. EPS switching time is measured under standard test conditions. Actual switching time may vary depending on load type, wiring method, and system status.
4. Self-consumption is measured in standby condition under standard test conditions. Actual power consumption may vary depending on network connection, operating mode, firmware version, and environmental conditions.

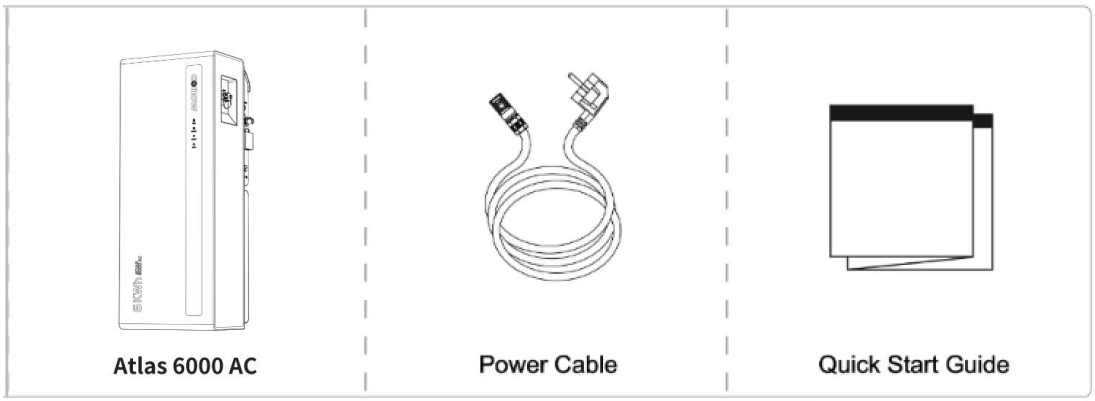
3 Installation

3.1 Unboxing and Inspection

Before opening the box, please check the outer packaging for visible damage, such as deformation, broken holes, or other signs of possible internal damage, and check the product model number. If there are any packaging abnormalities or product model discrepancies, do not open the box and contact the product distributor promptly.

After unpacking the equipment, check that the product matches the bill of materials and that there is no visible external damage or missing materials. If any material is missing or there is any damage, please do not use it and contact the product distributor promptly.

Figure 3-1 Packing list



3.2 Installation Environment Requirements

Select an installation location that complies with local laws, electrical regulations, and lithium battery installation requirements.

- Install the device in a dry, well-ventilated, and shaded location.
- Do not install the device in enclosed, poorly ventilated, or hard-to-access spaces.

- Do not place flammable, explosive, or corrosive materials near the device.
- Avoid direct sunlight, heavy rain, snow accumulation, standing water, or areas where water may collect.
- Keep the device away from water sources such as taps, drainage pipes, sprinklers, and irrigation systems.
- The installation position must allow easy access for operation, maintenance, label reading, and cable inspection.
- Ensure the device is within Wi-Fi coverage for App connection and remote functions.
- Keep at least 50 mm clearance from the wall or surrounding objects for heat dissipation.
- IP65 protection means the enclosure is protected against dust and water jets under standard test conditions. It does not mean the device can be immersed in water.

The installation and use of the device must comply with local laws and regulations as well as the provisions for lithium battery products in relevant international, national, and regional standards.

The device should not be installed in enclosed, non-ventilated areas where there are no proper fire safety measures or where it is hard for fire personnel to reach.

Do not place flammable or explosive items near the device.

The location of the device should avoid direct sunlight, rain, and snow accumulation.

The installation location of the device should avoid water accumulation and should be away from water sources like faucets, drain pipes, sprinklers, etc. to prevent water seepage.

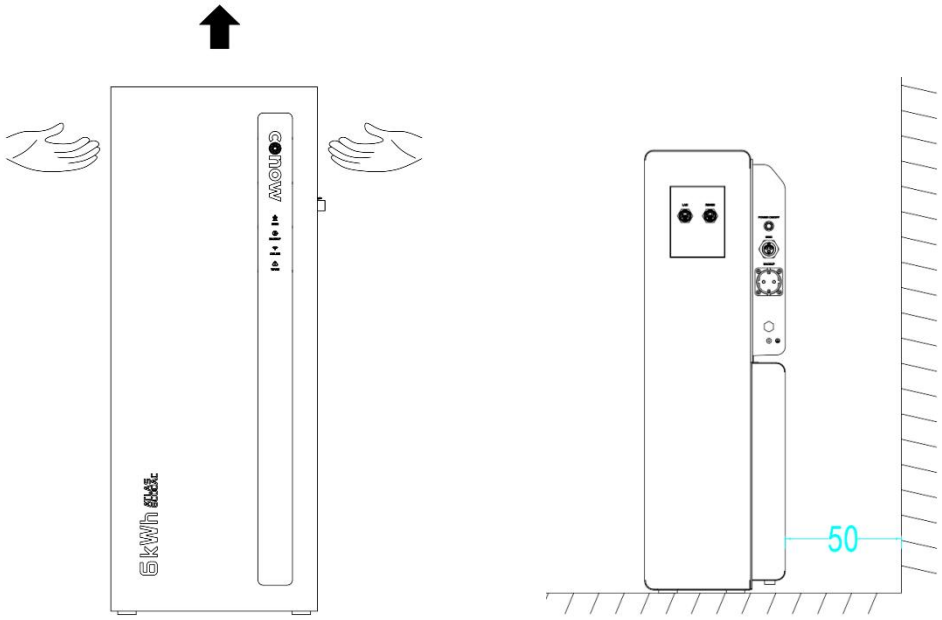
The height of the device installation should be convenient for operation and maintenance, ensure that device indicator lights and all labels are easy to see.

3.3 Install the Atlas 6000 AC

⚠ DANGER

- Before installation, make sure the Atlas 6000 AC is powered off. Installing or moving the device while it is powered on may cause electric shock, product damage, or malfunction.

Figure 3-2 Installing the Atlas 6000 AC



NOTICE

- Ensure the Atlas 6000 AC is off during installation.
- Place the device on a stable, level surface.
- Ensure the heat sink on the back of the Atlas 6000 AC faces the wall.
- Install the device within Wi-Fi coverage for network connection.
- Keep at least 50 mm clearance from the wall for heat dissipation。
- Do not stand, sit, lean, or place heavy objects on the device.

Installation while the system is powered on is not covered under warranty.

4 Wiring

WARNING

- Before connecting any cables, ensure the Atlas 6000 AC is powered off and all voltage sources are disconnected. Wait at least 3 minutes before handling the connectors.
- Electrical connection must comply with local regulations. If the device is connected to a fixed household circuit, distribution box, smart meter, or existing PV system, the work must be performed by a qualified electrician where required by local regulations.

Step 1 Connect the Grid cable to a properly grounded AC socket or circuit that meets the rated voltage and current requirements.

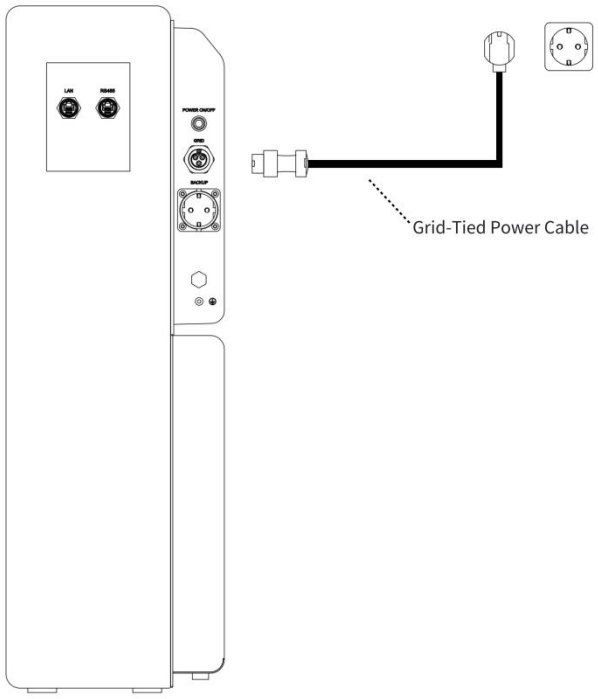


Figure 4-1 Installing the Grid-Tied cables

Step 2 Connect the Backup cable only to supported off-grid loads or to the supported wiring configuration shown in this manual.

The Backup port is designed for essential loads, such as a router, lighting, laptop, refrigerator, or other household appliances within the rated output power.

Do not connect the Backup port to the public grid or to any grid-connected household circuit. Do not exceed the rated voltage, current, or output power of the device.

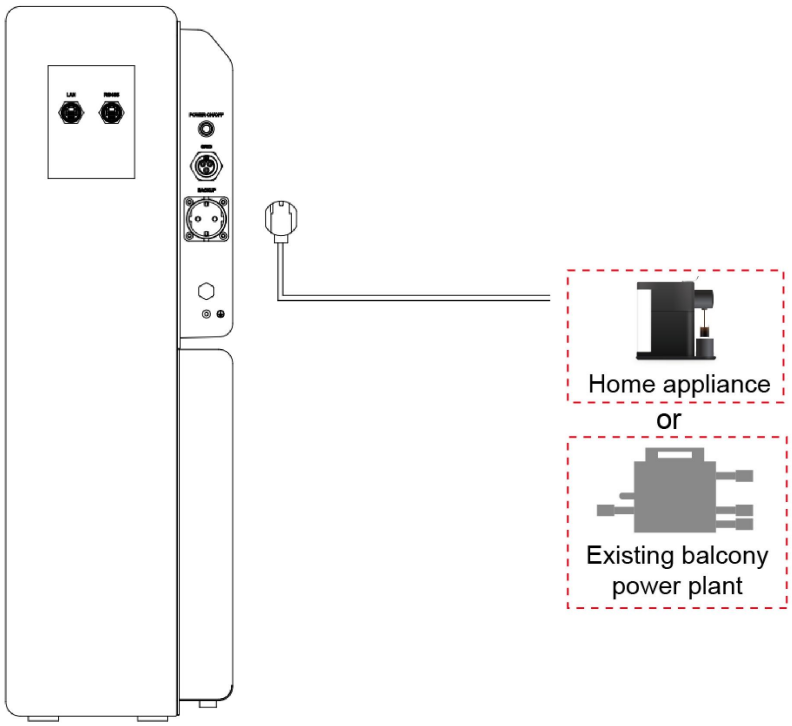


Figure 4-2 Installing the Backup cables

Step 3 Check that all connectors are fully inserted and locked. Ensure cables are not damaged, bent excessively, compressed, or exposed to standing water.

NOTE

- Do not connect the Backup port to the public grid. Do not exceed the rated voltage, current, or output power of the device.

5 Product Network Configuration

5.1 Download the CONOW ECO App

- Scan the QR code or search for “CONOW ECO” in the Apple App Store or Google Play Store. Download the App, create an account, and follow the in-app instructions to add your device.

CONOW ECO

- The App interface and available functions may vary depending on country/region, firmware version, product model, and App version. If the instructions in this manual differ from the App, follow the latest in-app instructions.

NOTE

- If Smart Life or Tuya Smart is supported in your country/region, you may use the compatible App according to the instructions provided by your distributor or service provider.

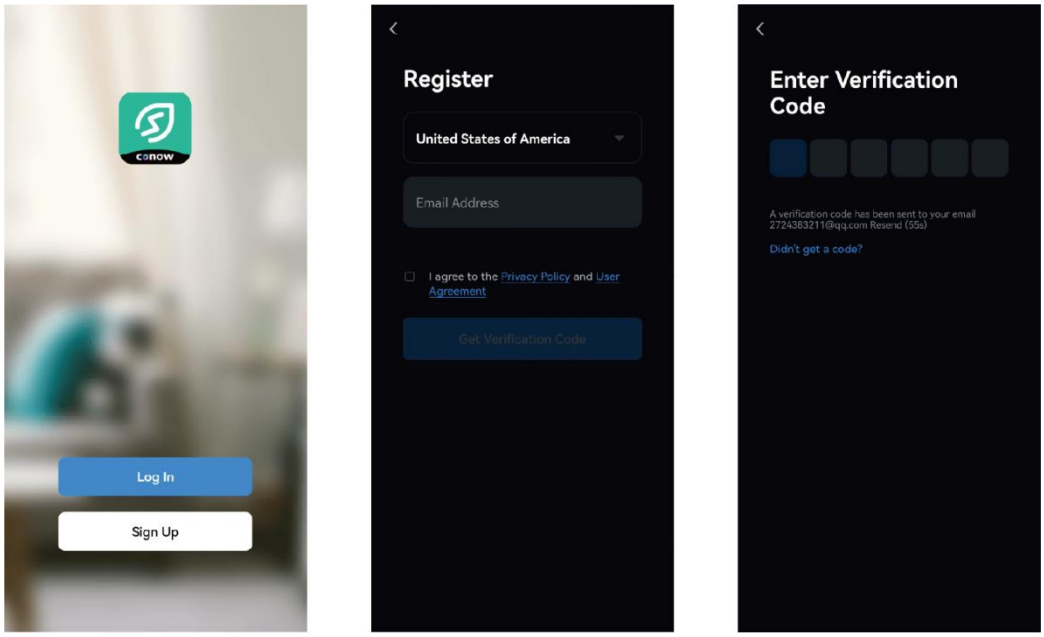
5.2 Log in / Sign up

Sign Up

Step 1 Tap the Sign Up button, choose your country/region, enter your email/mobile number, and tick the box to accept the Privacy Policy and User Agreement.

Step 2 Then tap “Get Verification Code”, fill in the verification code you received, your account will be created.

Figure 5-1 Sign up

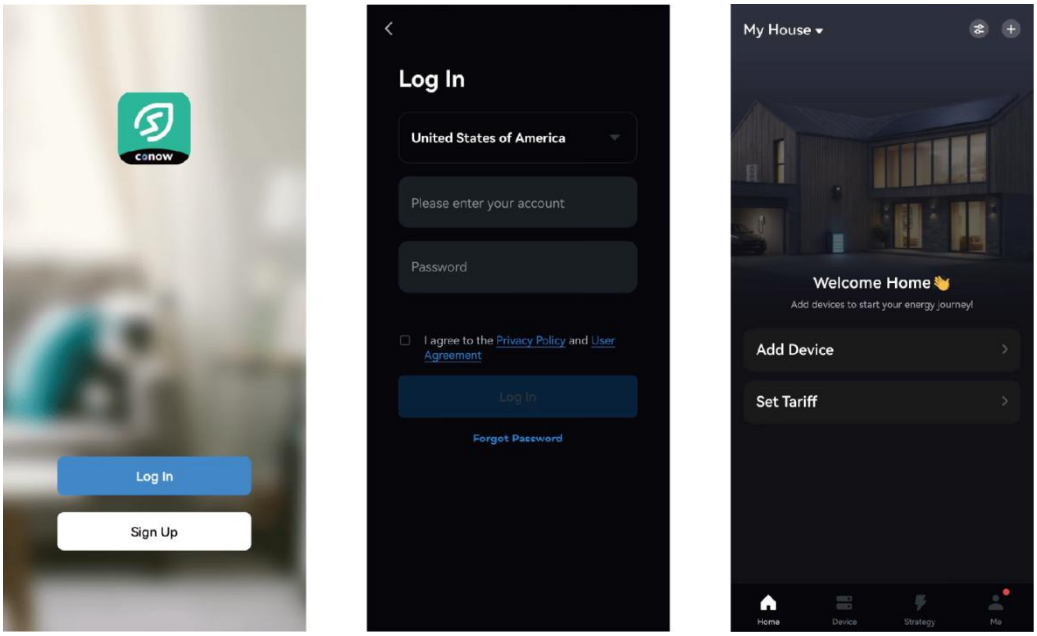


Log In

Step 1 Tap "Log In", enter your password, accept the Privacy Policy, and confirm to complete login.

Step 2 Tap the “Log In” button, the App guide map will be prompted if it’s your first login.

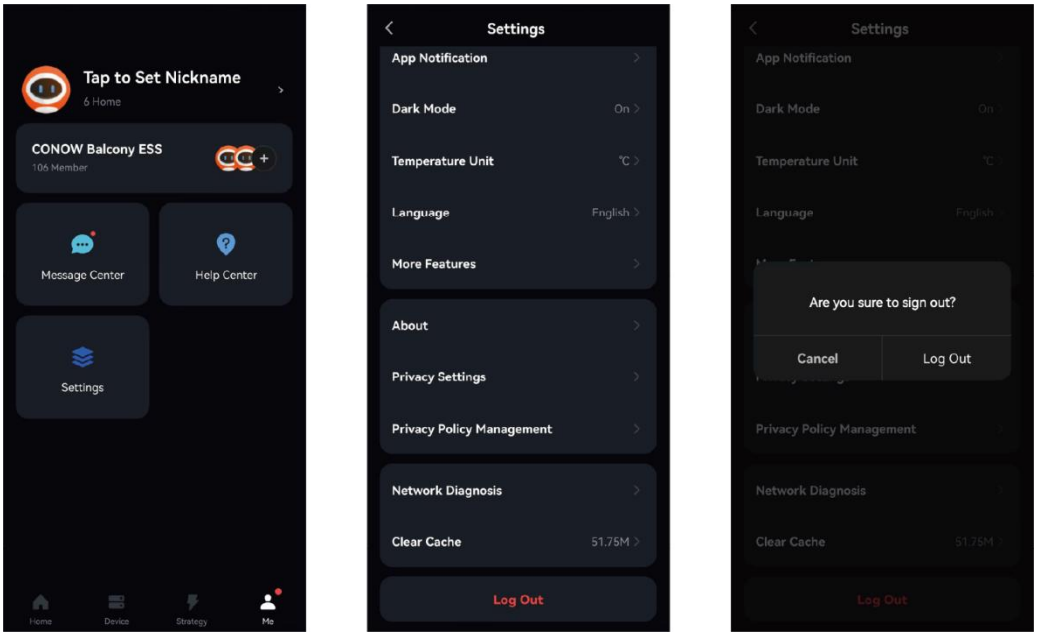
Figure 5-2 Log In



App Logout

Step 1 Go to “My” → Settings, tap “Sign out”, then confirm when prompted.

Figure 5-3 Logout



5.3 Device Proximity Connection via Bluetooth (Without Wi-Fi)

Step 1 Press the power button to turn on the device (the power button indicator light is on).

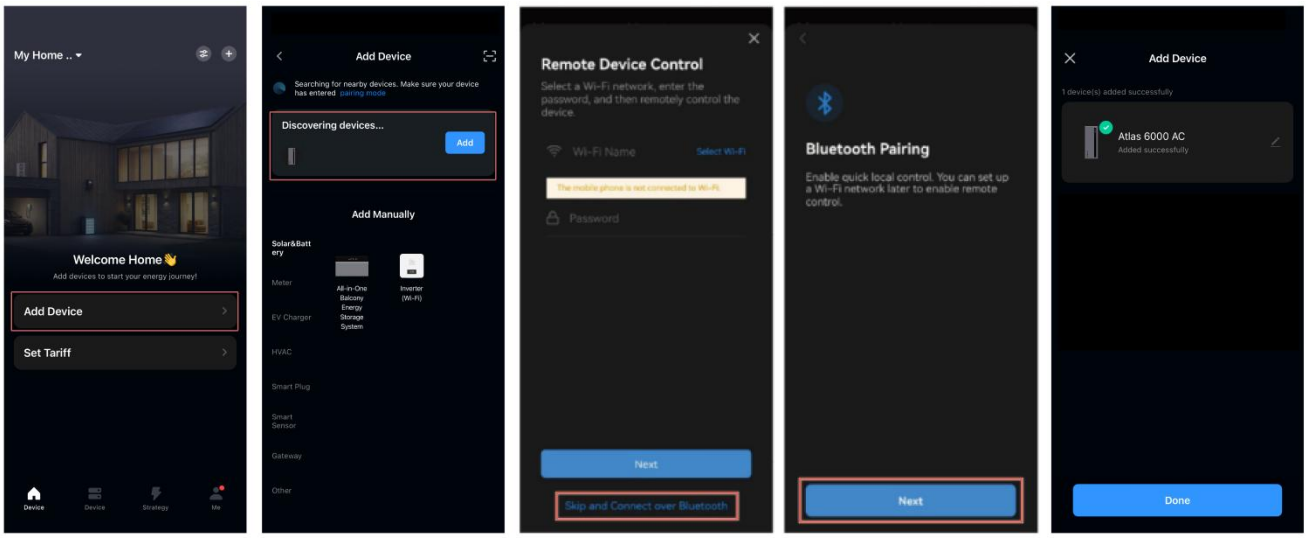
Step 2 Check the online indicator status to confirm the device is in pairing mode (the online indicator light is flashing).

Step 3 Open the App and click “Add” to add a device.

NOTICE

- When the device is connected via Bluetooth only, it supports local device connection and basic local control. Cloud-based functions, remote monitoring, dynamic tariff optimization, firmware updates, smart meter linkage, and AI scheduling may be unavailable.
- For full functionality, connect the device to a 2.4 GHz Wi-Fi network.

Figure 5-4 Device proximity connection via Bluetooth



5.4 Device Network Configuration (Bluetooth & Wi-Fi)

Step 1 Press the power button to turn on the device (the power button indicator light is on).

Step 2 Check the online indicator status to confirm the device is in pairing mode (the online indicator light is flashing).

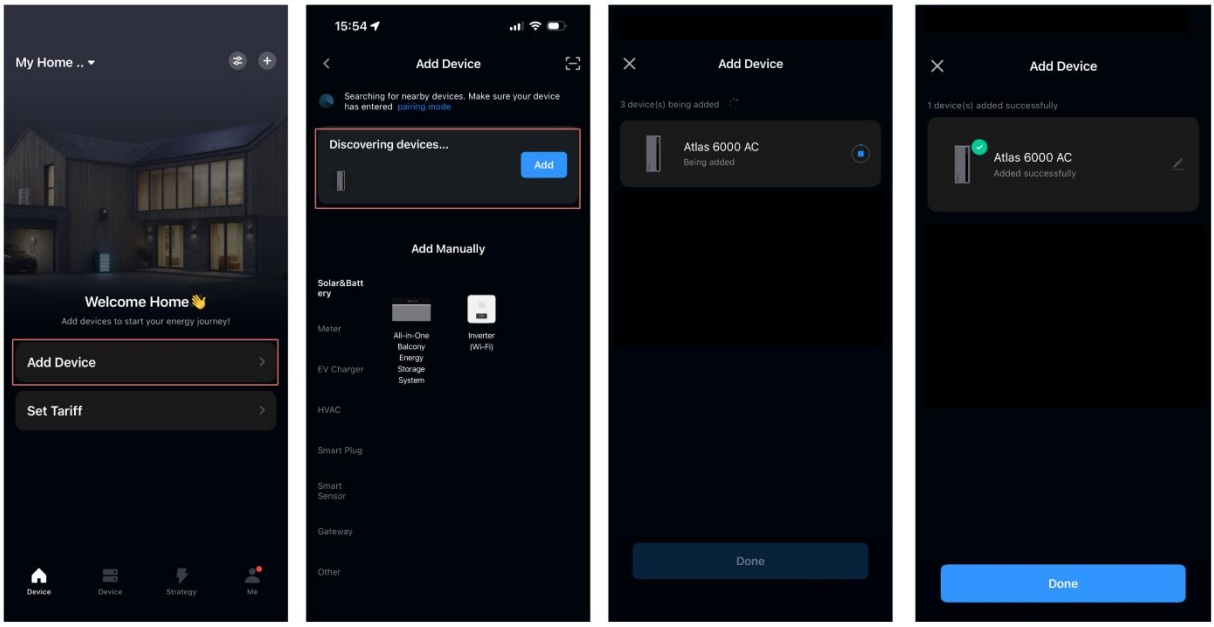
Step 3 Press and hold the reset button on the smart meter for 5 seconds. The indicator light will begin to flash, indicating that the smart meter has entered network connection mode. (if a smart meter is purchased)

Step 4 Open the App and click “Add” to add a device.

NOTICE

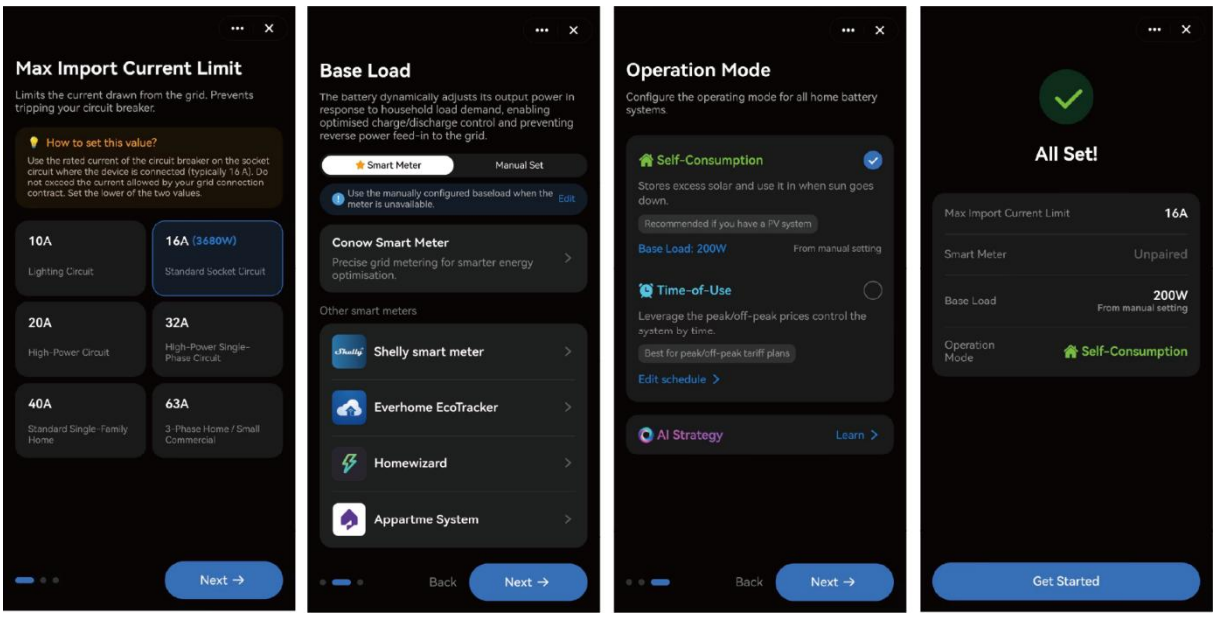
- When adding a device, you need to enable Bluetooth and Wi-Fi on your phone, and the Wi-Fi must be 2.4 GHz.
- Use the same method to add a smart meter.
- When you have multiple smart devices in pairing mode, you can search for and add them all simultaneously in the App. The example below shows the process for adding a single device.

Figure 5-5 Adding device



Step 5 Follow the prompts to complete the initial setup based on your actual usage.

Figure 6 Complete the setup wizard

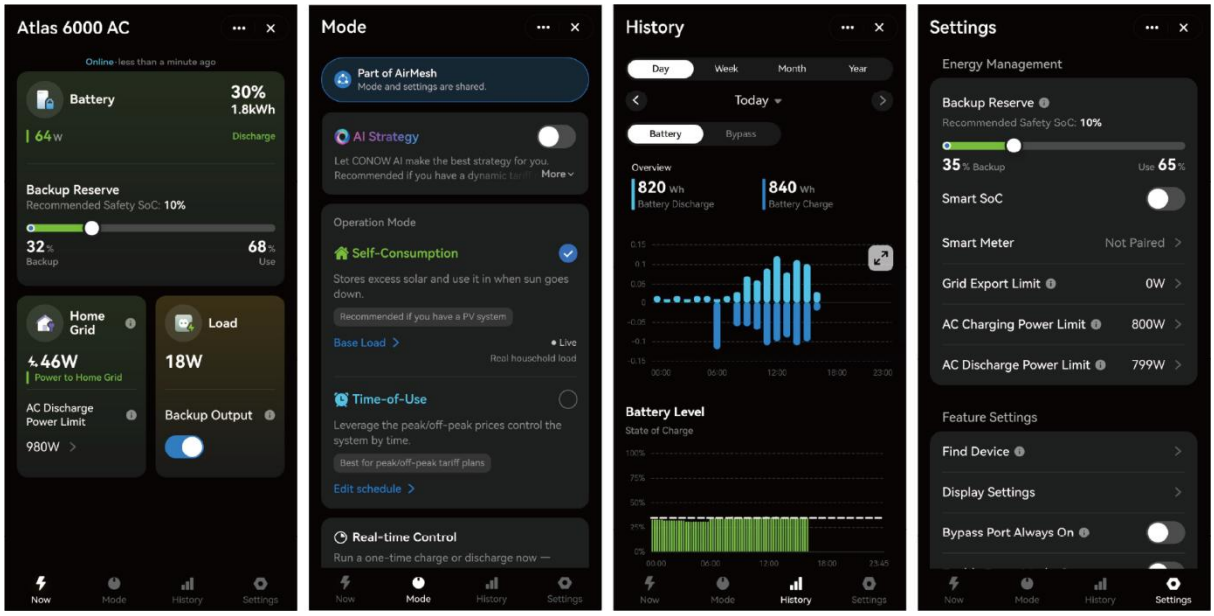


Step 6 Access the device page to view information and configure functional parameters based on your actual requirements.

NOTE

- The devices shown below are examples only. Refer to your actual devices.

Figure 5-7 Device page



Air Mesh Introduction

AirMesh Overview:

AirMesh enables real-time communication for up to 10 devices, allowing power distribution and scheduling while preventing devices from charging each other, ensuring the system operates at maximum efficiency.

How to Set Up AirMesh:

During network configuration, ensure the newly added device connects to the same Wi-Fi as existing devices in the home. AirMesh will be automatically established.

How the App Determines AirMesh Status:

After forming an AirMesh system, the device list will display device statuses: Main, Sub, and Electing (when the main's network signal is weak, the system will automatically elect a new main to coordinate all devices within the system).

Mode Introduction

Function	Description
Self Consumption	Stores excess solar and use it in when sun goes down.
Time-of-Use	Leverage the peak/off-peak prices control the system by time.
AI Strategy	Let CONOW AI make the best strategy for you. Recommended if you have a dynamic tariff contract and smart meter.
Real-time Control	Run a one-time charge or discharge now-reverts to your current mode when it's done.

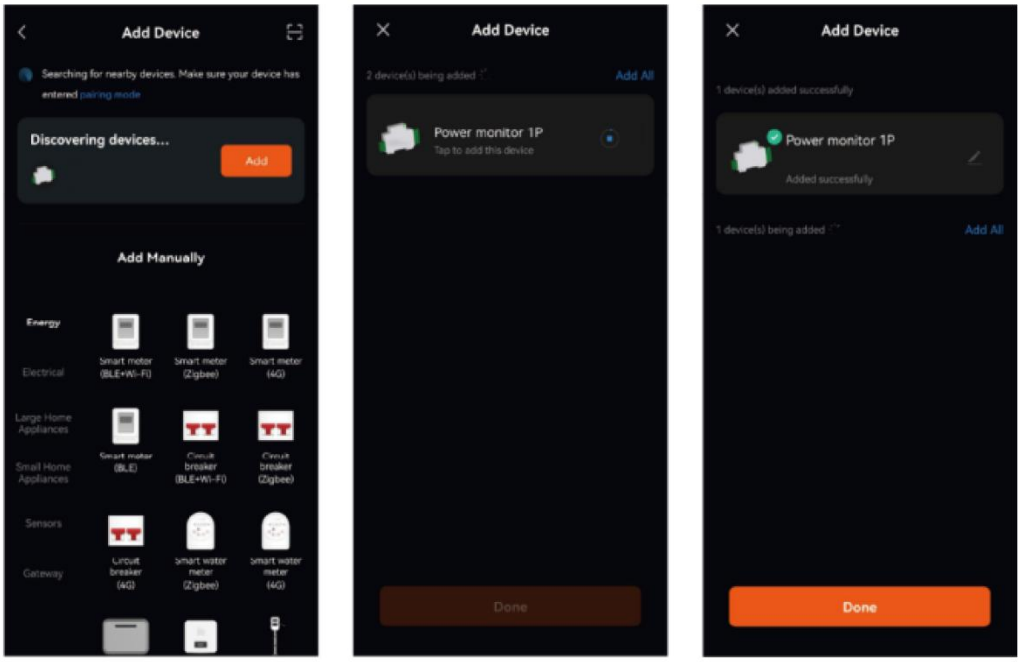
5.5 (Optional) Adding Other Devices

Navigate to the Device page in the App, then tap the “+” icon located in the upper right corner and select “Add Device”. Before proceeding, make sure your smart device is in network configuration mode.

NOTE

- The devices shown below are examples only. Refer to your actual devices.

Figure 5-8 Add Devices



5.6 Introduction to Function Settings

Function Introduction

Figure 5-9 Setting page

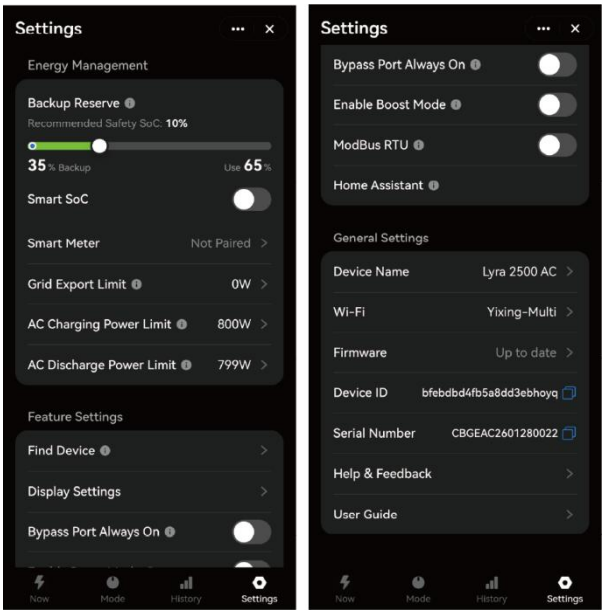


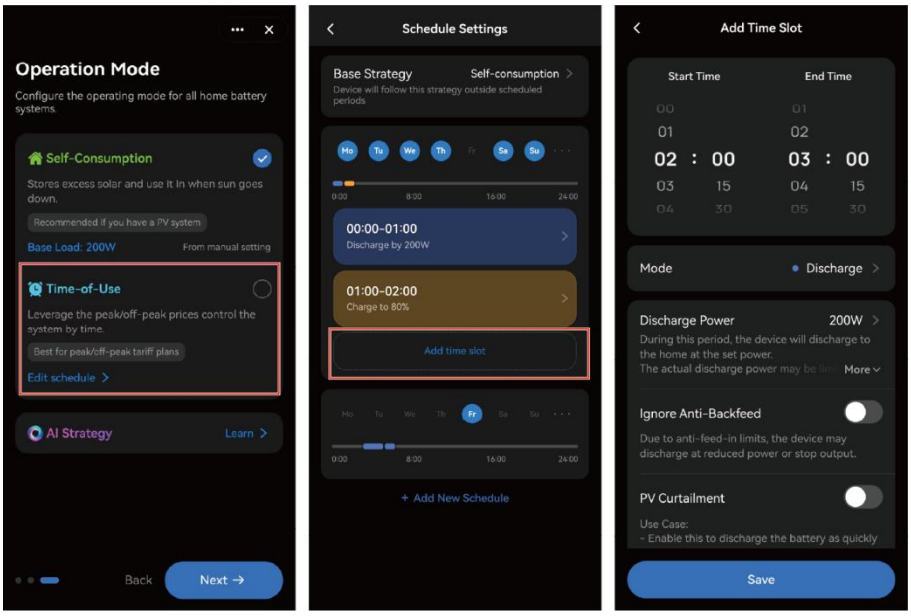
Table 5-1 Function Settings

Function	Description
Energy Management	
Backup Reserve	• Set a minimum charge level to prevent battery damage during storage. • **Smart SOC:** Intelligently recommends backup power SOC based on seasonal patterns, weather forecasts, and electricity usage habits.
Smart Meter	Connect the smart meter to the Atlas 6000 AC.
Grid Export Limit	Caps the power fed back to the grid. Active in Self-Consumption and Time-of, Use modes only.
AC Charging Power Limit	Limit power from the grid.
AC Discharge Power Limit	Limit power to the grid.
Feature Settings	
Find Device	The device indicator will flash for 10 seconds after clicking
Display Settings	Based on your actual usage habits, set the LED light to energy-saving mode or adjust the brightness manually.
Bypass Port Always On	When enabled, the bypass port stays permanently on,increasing power consumption-suitable for low-power or intermittent loads.When disabled, the bypass port turns off automatically when the load remains below 30 W.
Enable Boost Mode	Boost the charging & discharging speed. This may cause higher surface temperature and fan noise.
ModBus RTU	Control via Local RS485 or other systems When enabled, the device will exit all mode settings and only listen to your external system.
Home Assistant	Connect to Home Assistant via cloud integration. When a command is triggered from HA, the device operates under HA control. Once the command ends, it automatically resumes the CONOW operating mode.

Manual ToU

Manual ToU allows you to set battery charging and discharging time windows based on your electricity tariff.

Figure 5-10 Manual ToU settings

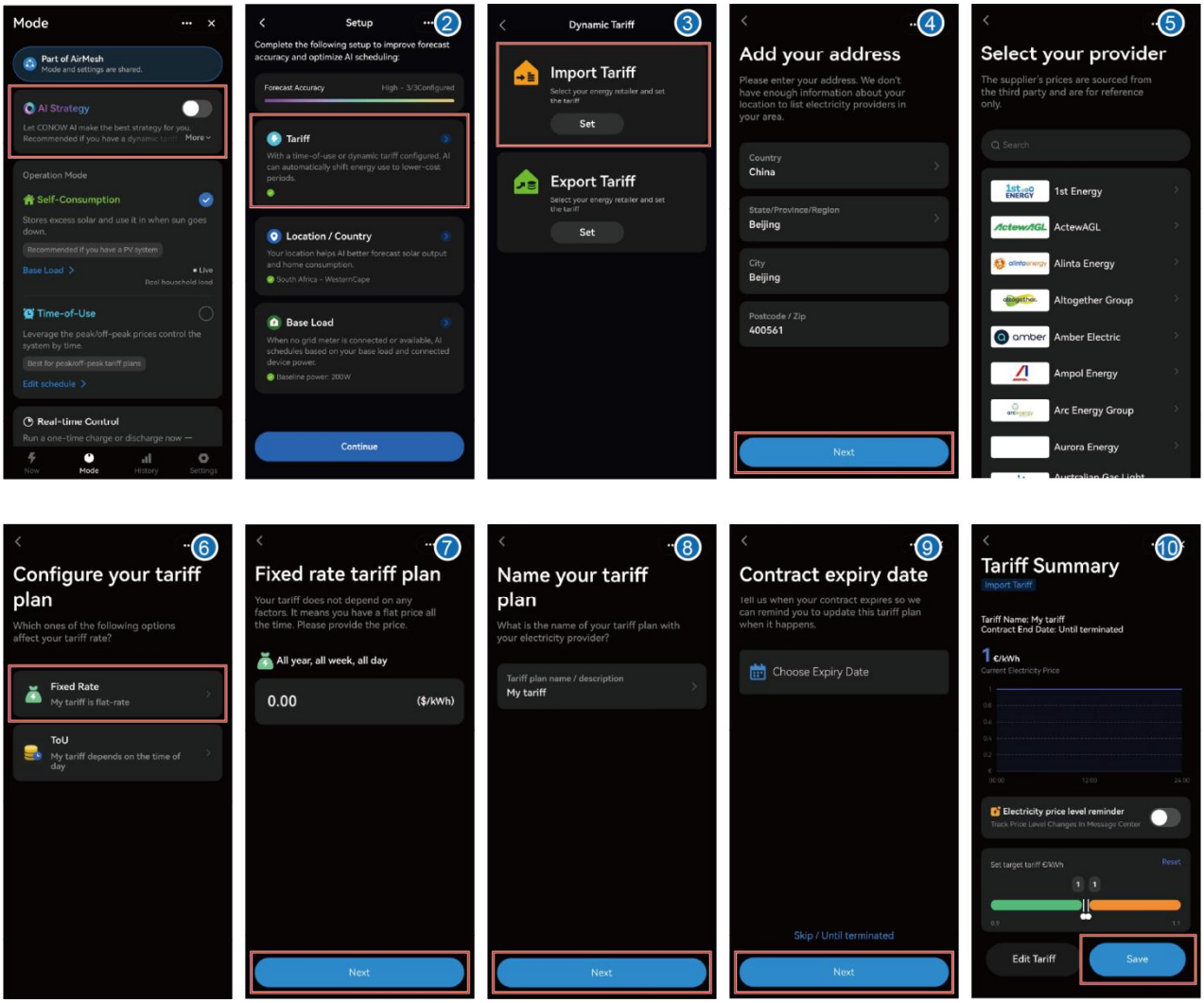


For example, the system can charge the battery during low-price periods and discharge during high-price periods to help reduce electricity costs. You can also set the target battery level for each time period.

Smart Control

Smart Control allows the HEMS systems to automatically create an energy schedule based on electricity tariff, solar forecast, battery status, and household consumption patterns.

Figure 5-11 Smart Control settings

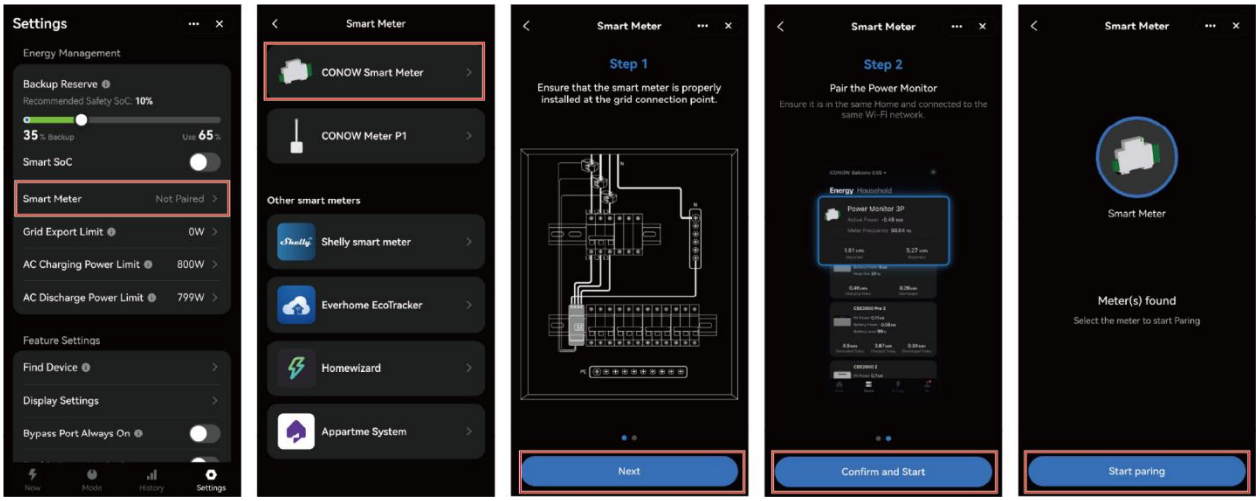


Anti Feed-in Function

NOTICE

- After a compatible smart meter is added, the system can monitor household power consumption and adjust the Atlas 6000 AC output power automatically.
- This helps limit the power exported to the grid or achieve zero-export operation where supported.
- Before enabling this function, add the smart meter in the App and make sure the smart meter and Atlas 6000 AC are connected to the same 2.4 GHz Wi-Fi network.
- Installation of the smart meter must comply with local electrical regulations and should be performed by a qualified electrician where required.
- You need to first add the smart meter in the app, and then go to the device's advanced settings page to add the smart meter.

Figure 5-12 Enable anti feed-in function



6 AI HEMS Assistant

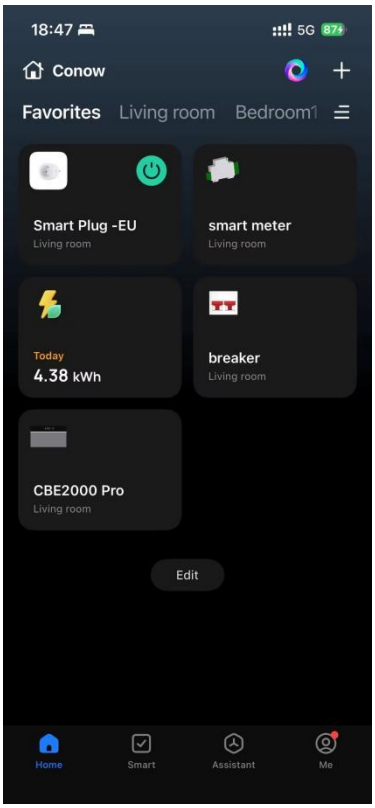
This chapter introduces how to use the AI HEMS Assistant within the **Tuya** or **SmartLife** app.

The AI HEMS (Home Energy Management System) is designed to help you visualize your home's energy flow and significantly reduce your electricity costs through intelligent AI scheduling.

Prerequisites

Before you begin, please ensure:

- The **Tuya** or **SmartLife** App is installed and updated.
- Your energy storage device (e.g., CBE, Lyra, Atlas) has been successfully added to your account.

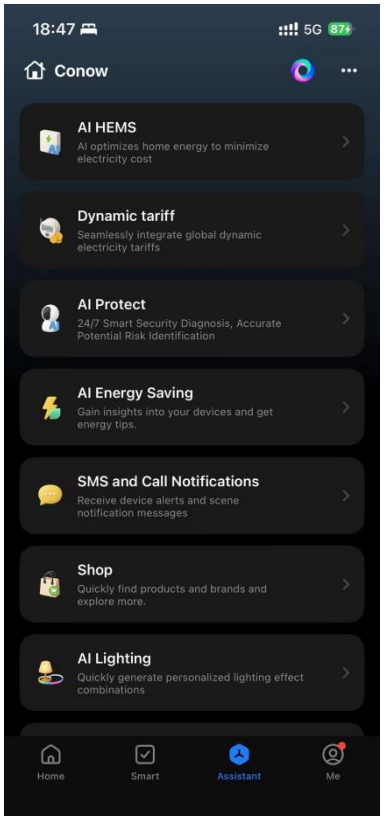


How to Access

Step 1 Open the **Tuya** or **SmartLife** App.

Step 2 Tap the Assistant tab at the bottom of the screen.

Step 3 Locate and tap the **"AI HEMS"** icon to enter the mini-app.



Energy Tab

The Energy tab serves as your home's energy dashboard, providing a clear view of your power consumption and costs.

Real-Time Power Flow

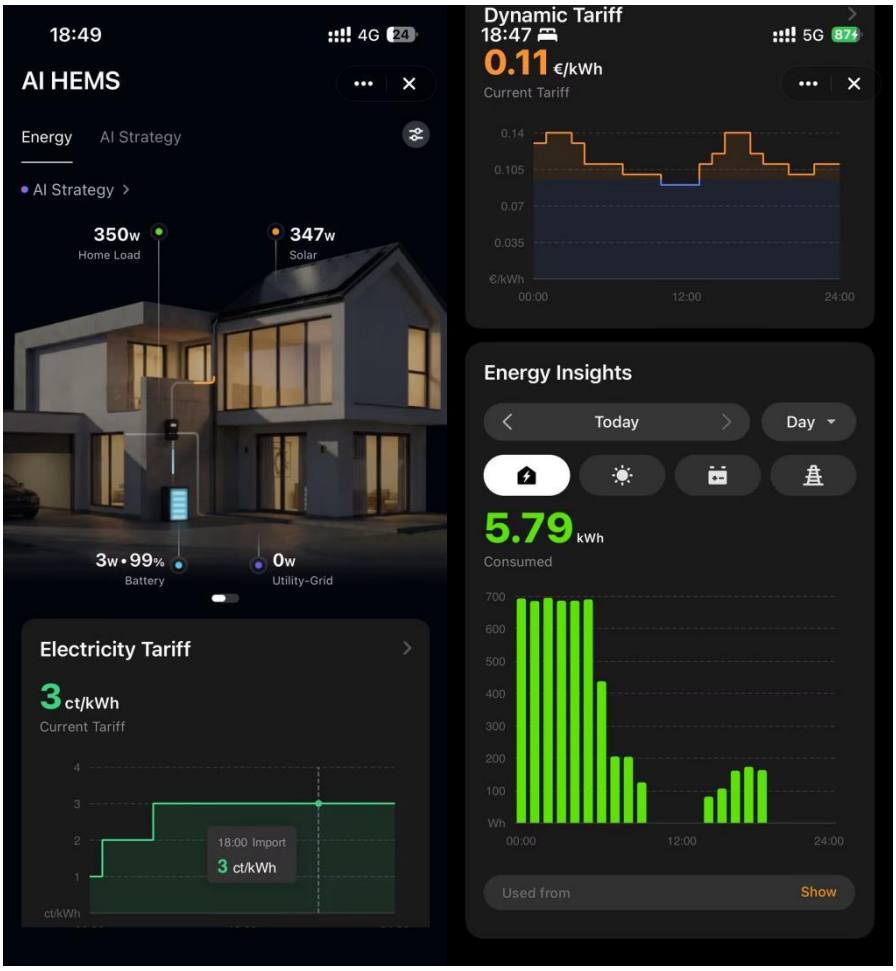
- Monitor the live power status of all modules: Solar, Battery, Home Load, and Utility Grid.
- The dynamic flow chart shows exactly where your electricity is coming from and where it's going in real-time.

Tariff Management

- Manual Setup: Set your local import and export electricity prices.
- Cost Analysis: The system uses these rates to calculate your costs and provides the data foundation for AI optimization.

Energy Insights

- Daily Stats: Track the daily energy production and consumption for each module.
- Energy Sources: View a detailed breakdown of your power usage (e.g., how much was supplied by the Grid vs. Battery vs. Solar).



AI Strategy Tab

This is the "brain" of the system. It predicts solar generation, consumption, and price over the next 24 hours to create the most cost-effective schedule.

How to Activate AI Scheduling：

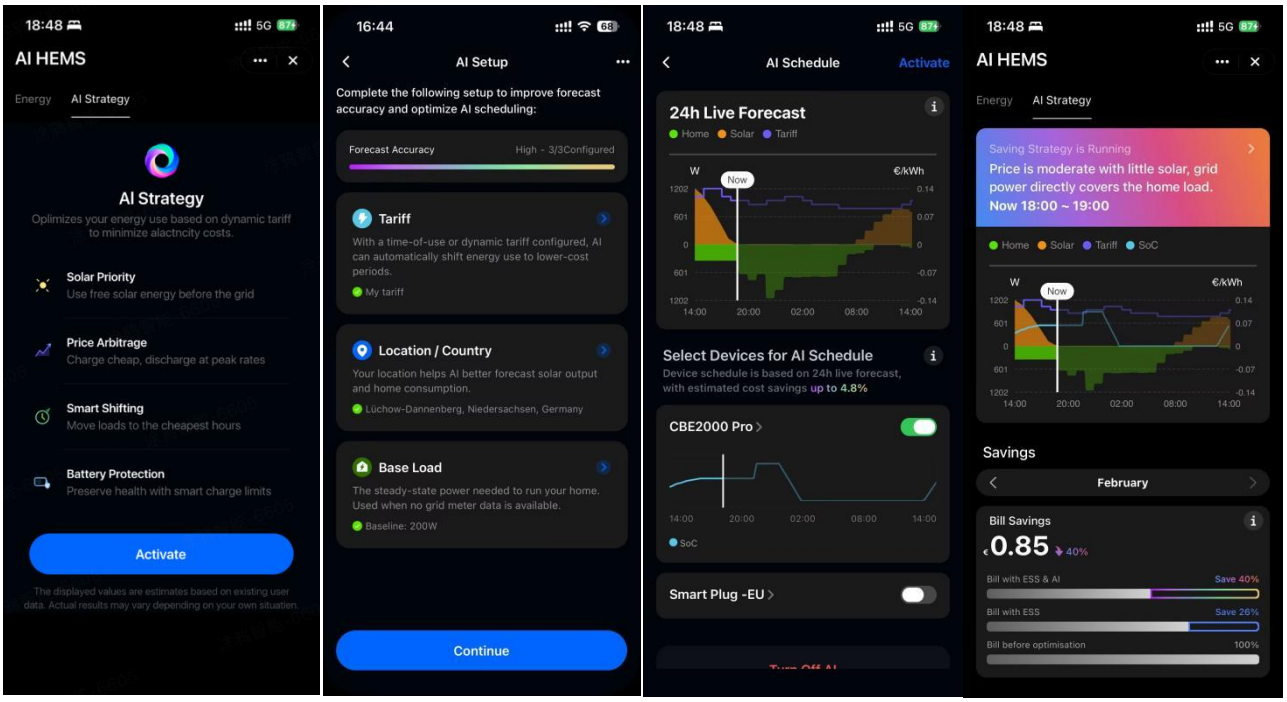
- Activate Strategy: Tap the button to activate AI strategy
- Confirm Details: Before activation, verify your Home Location, Tariff Plan and Base load (Set your home’s baseline power demand. When real-time home load is unavailable, AI Scheduling uses this value to optimize energy dispatch.). Accuracy here ensures the best AI performance.
- View Forecasts: Review the predicted 24-hour charts for load, generation, and pricing.
- Select Devices: Select which device (e.g., CBE2000 Pro) you want the AI to

manage.

- Activate: Tap the Activate button in the top right corner to start the AI optimization.

Monitoring AI in Action:

- 24h Forecast: A top-level chart displaying the predicted trends for the day ahead.
- Real-Time Explanations: The app explains why the AI is taking specific actions. Example: "Electricity price is low. AI is powering the home via the grid to keep the battery charged for high-price hours."
- Bill Savings Tracker: See exactly how much money and percentage you've saved this month compared to standard operation.



Summary

With AI HEMS, you can:

- Gain Full Control: See your entire home energy ecosystem at a glance.
- Understand Patterns: Identify where your energy comes from and how it's used.
- Save Automatically: Let AI handle the complex math of "buy low, use high" to lower your bills effortlessly.

7 Maintenance

6.1 Alerts & Troubleshooting

The following table lists common alerts and recommended actions.

Critical alerts require immediate attention. Stop using the device if instructed by the App or this manual. Non-critical alerts may recover automatically after the operating condition returns to normal. If an alert persists, contact CONOW Support or an authorized service provider.

Alarm Code	Fault Name	Cause	Solution Measures
0104	Pack Undervoltage	Battery pack total voltage is below the lower limit	Charge the battery immediately. If charging fails, contact support.
0109	Charge Overcurrent Level 1	Charging current exceeds the Level 1 threshold	Try restarting and observe if it recovers. If not, contact support.
0110	Charge Overcurrent Level 2	Charging current severely exceeds the limit	Try restarting and observe if it recovers. If not, contact support.
0111	Discharge Overcurrent Protection	Discharge current exceeded the threshold and was protected	Try restarting and observe if it recovers. If not, contact support.
0112	Discharge Overcurrent Level 2 Protection	Discharge current severely exceeded the limit and forced protection was triggered	Try restarting and observe if it recovers. If not, contact support.
0116	Short-Circuit Protection	Short circuit detected on the DC side and protection activated	Power off immediately and check wiring/load. Restart to test. If not recovered, contact support.
0117	NTC Failure	Temperature sensor error (open/short)	Try restarting and observe if it recovers. If not, contact support.
0118	Cell Failure	A cell failed or is disconnected	Stop using the device and contact support promptly.
0119	AFE Failure	Front-end sampling	Power down and contact support

Alarm Code	Fault Name	Cause	Solution Measures
		circuit failure	for diagnostics.
0120	Charge MOS Failure	Abnormal switching of charge MOS	Stop charging immediately and contact support.
0121	Discharge MOS Failure	Abnormal switching of discharge MOS	Disconnect the load and contact support.
0123	Heater Film Short Circuit	Heating circuit shorted	Power off immediately, stop using, and contact support.
0124	Current Sensor Fault	Abnormal current measurement	Try restarting and observe if it recovers. If not, contact support.
2002	Main-Expansion Communication Error	Communication abnormal between main and expansion controllers	Try restarting and observe if it recovers. If not, contact support.
2003	Inverter Communication Error	Communication interruption or abnormality between the main control and the inverter.	Stop using the device and contact support promptly.
2004	Inverter Failure	Inverter function abnormal or unable to start/output	Stop using the device and contact support promptly.
2005	Meter Lost	Unable to communicate with smart meter	Please check the smart meter and try to reconnect it.
2006	Abnormal Temperature Difference Protection	Abnormal temperature difference detected in the system.	Please check the installation environment and temperature sensors, and ensure the device is operating within the recommended temperature range.
2007	Wi-Fi Connection Fault	Unable to connect to the Wi-Fi network.	Please check the Wi-Fi signal, router settings and password, then try to reconnect.
2008	Grid Disconnected	Grid Disconnected	Please connect to the grid and wait for recovery.
3001	Inverter Output Overvoltage	Device output voltage out of normal range	Please check the parameter settings and observe. If the abnormality persists, please contact after-sales service.
3002	Inverter Output Undervoltage	Device output voltage below specified limits	Please reduce the number of connected appliances and recharge the device, then observe. If the abnormality persists, please contact

Alarm Code	Fault Name	Cause	Solution Measures
			after-sales service.
3003	Inverter Instantaneous Overcurrent	Instantaneous current value exceeds normal range	Please disconnect appliances connected to the off-grid port and wait for the system to recover. If the abnormality persists, please contact after-sales service.
3004	Excessive DC Component In Output Current	The output terminal is connected to a considerable number of half-wave rectified loads (e.g., certain dimmable lights, legacy appliances).	Please reduce the use of such appliances and observe; if the abnormality persists, please contact after-sales service.
3005	Inverter Output Overcurrent	Equipment output current exceeds normal limits.	Please avoid simultaneously operating multiple high-power appliances and observe the system.
3006	Inverter Output Overcurrent (Hardware Protection)	Device hardware detected overcurrent at output.	Please reduce the number of connected electrical appliances and observe. If the anomaly persists, please contact customer support.
3007	Output Short Circuit	Short circuit at device output port	Please immediately disconnect power, then inspect and remove any faulty appliances or circuits. Reconnect power once normal conditions are restored. If the abnormality persists, please contact after-sales service.
3008	Output Overload (105%)	The total power of connected appliances exceeds 105% of the rated power and persists for more than 10 seconds.	Please reduce the connected electrical appliances to bring the total power below the rated power; disconnect AC, and the system will resume operation after power cycling.
3009	Output Overload (120%)	The total power of connected appliances exceeds 120% of the rated power and persists for more than 1.5 seconds.	Please reduce the connected electrical appliances to bring the total power below the rated power; disconnect AC, and the system will resume operation after power cycling.
3010	Output Overload	The total power of	Please reduce the connected

Alarm Code	Fault Name	Cause	Solution Measures
	(200%)	connected appliances exceeds 200% of the rated power and persists for more than 300 milliseconds.	electrical appliances to bring the total power below the rated power; disconnect AC, and the system will resume operation after power cycling.
3011	Device Temperature Too High	Device heat sink temperature exceeds normal range	Please relocate the device to a cool, well-ventilated area and remove any surrounding obstructions. If the anomaly persists, please contact after-sales support.
3012	Temperature Sensor Fault	Internal temperature sensor sampling anomaly	If the abnormality persists, please contact after-sales service.
3017	Instantaneous Grid Overvoltage	Instantaneous grid voltage exceeds permissible range	Please wait for the grid to recover or switch to off-grid mode; if the abnormality persists, please contact the power company or after-sales service.
3018	Grid Overvoltage	Grid voltage exceeds permissible upper limit	Please wait for the grid to recover or switch to off-grid mode; if the abnormality persists, please contact the power company or after-sales service.
3019	Grid Overvoltage (Level 2)	Grid voltage exceeds permissible upper limit	Please wait for the grid to recover or switch to off-grid mode; if the abnormality persists, please contact the power company or after-sales service.
3020	Grid Undervoltage	Grid voltage below permissible lower limit	Please appropriately reduce household electricity consumption and wait for the grid to resume operation. If the abnormality persists, please contact the power company or after-sales service.
3021	Grid Under-voltage (Level 2)	Grid voltage below permissible lower limit	Please appropriately reduce household electricity consumption and wait for the grid to resume operation. If the abnormality persists, please contact the power company or after-sales service.

Alarm Code	Fault Name	Cause	Solution Measures
3022	Instantaneous Grid Undervoltage	Instantaneous grid voltage is below the permissible range	Please appropriately reduce household electricity consumption and wait for the grid to resume operation. If the abnormality persists, please contact the power company or after-sales service.
3023	Grid Over-frequency	Grid frequency exceeds permissible upper limit	Please wait for the grid to normalize. If this issue occurs frequently, please contact your power utility or after-sales service.
3024	Grid Over-frequency (Level 2)	Grid frequency exceeds permissible upper limit	Please wait for the grid to normalize. If this issue occurs frequently, please contact your power utility or after-sales service.
3025	Grid Underfrequency	Grid frequency below allowable limit	Please wait for the grid to normalize. If this issue occurs frequently, please contact your power utility or after-sales service.
3026	Grid Underfrequency (Level 2)	Grid frequency below allowable limit	Please wait for the grid to normalize. If this issue occurs frequently, please contact your power utility or after-sales service.
3027	Power Grid Anomaly	Abnormal grid voltage or current waveform	Please wait for the grid to recover or switch to off-grid mode; if the abnormality persists, please contact the power company or after-sales service.
3028	Grid Phase-lock Anomaly	The device is unable to properly track the grid phase and frequency.	Please wait for the grid to recover or switch to off-grid mode; if the abnormality persists, please contact the power company or after-sales service.
3029	Relay Sticking	The internal relay of the device is unable to operate correctly.	Restart after disconnection. If the abnormality persists, please contact after-sales service.
3030	Grid Disconnection Protection	Grid Disconnected	Please confirm if the grid power supply is normal; the device will automatically reconnect to the

Alarm Code	Fault Name	Cause	Solution Measures
			grid after power is restored.
3031	Grid Overload	The actual output current on the AC grid-tied side continuously exceeds the rated grid-tied current threshold at the grid terminal.	Please reduce the number of connected appliances and observe. If the abnormality persists, please contact the power company or after-sales service.
3033	Insulation Fault Detected	The insulation impedance of the equipment's AC/DC terminals is continuously below the safety threshold.	If the abnormality persists, please contact after-sales service.
3034	Residual Current Protection	Equipment-to-ground leakage current exceeds safety threshold.	If the abnormality persists, please contact after-sales service.
3036	Busbar Overvoltage	Internal busbar voltage of the device exceeds the upper limit	Please power off and restart the device, and wait for it to recover. If the abnormality persists, please contact after-sales service.
3037	Busbar Overvoltage (Level 2)	Internal busbar voltage of the device exceeds the upper limit	Please power off and restart the device, and wait for it to recover. If the abnormality persists, please contact after-sales service.
3038	DC Bus Undervoltage	Internal busbar voltage of the equipment is below the upper limit.	Please power off and restart the device, and wait for it to recover. If the abnormality persists, please contact after-sales service.
3039	Busbar Undervoltage (Level 2)	Internal busbar voltage of the equipment is below the upper limit.	Please power off and restart the device, and wait for it to recover. If the abnormality persists, please contact after-sales service.
3041	Main Power Supply Undervoltage	Main power supply under-voltage	Please cycle the power. If the abnormality persists, please contact technical support.
3044	Communication Fault	Internal device communication fault	Wait for the device to automatically recover; if the abnormality persists, please contact after-sales service.
3046	Fan Fault	Cooling Fan Fault	After powering off and restarting, please wait for the device to

Alarm Code	Fault Name	Cause	Solution Measures
			automatically recover. If the abnormality persists, please contact technical support.
3061	Battery Overvoltage	Battery voltage exceeds upper limit	Please wait for automatic recovery; if the abnormality persists, please contact after-sales service.
3062	Battery Overvoltage (Level 2)	Battery voltage exceeds upper limit	Please wait for automatic recovery; if the abnormality persists, please contact after-sales service.
3063	Radiator Over-temperature	Device heat sink temperature exceeds normal range	Please relocate the device to a cool, well-ventilated area and remove any surrounding obstructions. If the temperature continues to rise, power off the unit and restart it once the temperature has normalized.
3064	Radiator Temperature Sampling Fault	Internal temperature sensor sampling anomaly	If the abnormality persists, please contact after-sales service.

6.2 Warranty Exclusions

The warranty does not apply to damage, malfunction, or loss caused by any of the following:

1. Failure to provide valid proof of purchase.
2. Damage resulting from major natural disasters (e.g., earthquakes, tsunamis, typhoons, floods) or significant social events (e.g., war, riots, government intervention).
3. Accident, misuse, abuse, negligence, improper storage, or operation outside the specified conditions.
4. Incorrect installation, wiring, configuration, testing, or operation not in accordance with this manual.
5. Unauthorized disassembly, repair, modification, or removal/damage of the anti-tamper label.
6. Products purchased from unauthorized distributors or retailers.
7. Battery damage caused by failure to charge, discharge, store, or maintain the product according to the requirements in this manual.

This warranty statement does not affect any statutory rights that apply under local consumer protection laws.

6.3 Routine Maintenance

Maintenance Requirements

To ensure long-term safe and reliable operation of the Atlas 6000 AC system, inspect and maintain the device regularly.

Inspection Item	Method	Recommended Interval
System cleaning	Use a soft, dry cloth to clean dust and dirt from the product surface. Do not use solvents or high-pressure water.	Every 6–12 months
Product appearance	Check for deformation, cracks, corrosion, abnormal noise, or visible damage.	Every 6 months
Electrical connection	Check whether cables, connectors, waterproof covers, and terminals are secure and undamaged.	6 months after first installation, then every 6–12 months
Grounding	Check whether the protective earth connection is secure and reliable.	6 months after first installation, then every 6–12 months
Operating status	Check the App for abnormal alerts, firmware status, and key system settings.	Every 6 months

8 Emergency Handling

If an accident occurs, including impact, flooding, smoke, fire, abnormal smell, leakage, or visible product deformation, ensure personal safety first.

Stop using the device if it is safe to do so, keep people away from the affected area, and contact emergency services, CONOW Support, or an authorized service provider.

Do not attempt to disassemble, repair, move, or dispose of a damaged battery by yourself.

Battery Falling or Strong Impact

DANGER

If a battery is dropped or violently impacted during installation, it may become faulty and must not be used. Using a faulty battery will cause safety risks such as cell leakage and electric shock.

- If a battery has obvious damage or abnormal odor, smoke, or fire occurs, evacuate the personnel immediately, call emergency services, and contact the professionals. The professionals shall use fire extinguishing facilities to extinguish the fire under safety protection.
- If the appearance is not deformed or damaged, and there is no obvious abnormal odor, smoke, or fire, contact the professionals to transfer the battery to an open and safe place, or contact a recycling company for disposal.

Flood

- Power off the system if it is safe to do so.
- If any part of the batteries is submerged in water, do not touch the batteries to avoid electric shock.
- Do not use batteries that have been soaked in water. Contact a battery recycling company for disposal.

Smoke or Fire

DANGER

- In case of smoke or fire, if there is a large amount of smoke in the battery

storage room, do not open the door to prevent explosion risks and toxic gas inhalation.

- If a lithium battery catches fire, flammable and toxic gases will be released. Therefore, during the extinguishing process, all firefighters must wear a full set of protective suits, including flame retardant/fireproof clothing, air-purifying respirator or breathing apparatus, firefighter helmet and mask, and insulated shoes.
- A lithium battery fire may last for several hours. After it is extinguished, the fire may be reignited by the heat generated from residual ingredients due to internal cell damage. After an open flame is extinguished, continue spraying water to cool the batteries. Wait until the battery temperature drops to room temperature±10°C and monitor for 24 hours to ensure that there is no sign of temperature rise before removing the batteries. Move the removed batteries to a safe place (an open and safe outdoor place is recommended), and then place the batteries in the fire sandbox or salt water.

If an ESS emits smoke or catches fire, household members should not dispose of the ESS by themselves. Follow the processes in the flowchart below.

The detailed description is as follows:

1) If batteries emit smoke or catch fires, notify all household members to evacuate immediately.
2) After evacuating to a safe outdoor area (20 m away is recommended), call the fire department immediately. While waiting for the fire rescue, contact the installer and technical support.
3) Firefighters arrive at the site and extinguish the fire.
4) After the fire is extinguished, set up a warning sign to isolate the area and spray water to reduce the battery temperature to room temperature±10°C. (You can use an infrared thermometer or thermal imager.)
5) Observe the batteries for 24 hours and ensure that there is no sign of temperature rise before removing the batteries. (Only professionals are allowed to remove the batteries.)
6) After removing the batteries, move them to a safe place (an open and safe outdoor place is recommended), and place them in the fire sandbox or salt water. These operations must be performed by professionals who must take insulation measures, such as wearing insulated gloves, insulated shoes, and personal protective equipment (PPE).
7) After the battery fire is extinguished, if there is no potential risk onsite, the battery must be handled and recycled by professionals in accordance with local laws and regulations.

Battery Leakage

DANGER

- The leaked electrolyte is a colorless viscous liquid that may evaporate rapidly and is flammable, turning into white salt residues. The electrolyte has a pungent smell and is corrosive, irritating to eyes and skin. Avoid contact with it.
- When handling chemical leakage incidents, professional maintenance personnel and firefighters must wear necessary protective equipment such as air-purifying respirators and other PPE.

For household members, if battery leakage occurs, you are advised to follow the following steps:

1) Set the power button to OFF.
2) Indoor installation scenario: Indoor personnel should quickly evacuate, open the doors, windows, and ventilation devices of the room, and turn off indoor fire sources during the evacuation. Outdoor installation scenario: Notify outdoor personnel to stay away from the site and set up a warning sign to isolate the area.
3) After evacuating to a safe area, notify professional maintenance personnel or firefighters to handle the emergency.

Avoid contact with electrolytes or released gases. In the case of contact, take the following measures:

- Inhalation: Evacuate from contaminated areas, get fresh air immediately, and seek immediate medical attention.
- Eye contact: Immediately wash your eyes with water for at least 15 minutes, do not rub your eyes, and seek immediate medical attention.
- Skin contact: Wash the affected areas immediately with soap and water and seek immediate medical attention.
- Intake: Seek immediate medical attention.

Conclusion and Follow-Up Procedure

- After a battery fire is extinguished and there is no potential risk onsite, professionals handle and recycle the batteries after wearing insulated gloves, insulated shoes, and other PPE in accordance with local laws and regulations. After an accident occurs, the manufacturer can identify the damage to the device and replace the device according to the corresponding procedure to restore the ESS.
- After a battery fire is extinguished, the fire-extinguishing water may pollute the surrounding soil and water source. In this case, notify the related environmental protection department for evaluation and handling.