M02671
Version: 1.0

11.4 kW Hybrid Inverter

MANUAL



This product is supported by **Midland Power.** Contact us directly for assistance and warranty help. Do not return this product to store.

You must register online for your warranty to be valid. It only takes a minute, do it now while you still have your purchase receipt.

Register Your Product Online
https://support.midlandpowerinc.com/product-registrations/new

Support for your product is available online, including parts, service center locations, and live expert advice.

Visit us online at
www.midlandpowerinc.com

Or call us anytime at **1-877-528-3772.**

This manual is regularly updated.

ALWAYS check for manual updates before performing a new installation or performing any maintenence.

To access the latest M02671 11.4kW Hybrid Inverter Manual, please scan the QR Code below.

The M02673 16kWh Wall Mount Battery Manual can be found by scanning the QR Code below.

Thanks for choosing Cabin!

You're excited to get started, we'll keep this brief.

READ THIS ENTIRE GUIDE BEFORE USING THIS PRODUCT AND SAVE FOR LATER USE.

This user guide contains important instructions including safety, setup, operation, and maintenance that must be followed. All information in this guide is based on information available at the time of print. This guide or revised editions can be found on our website for download. No part of this publication may be reproduced without written permission.



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M02671_Manual_EN_2026

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1. SAFETY

⚠ DANGER! ⚠

Before using the inverter, please carefully review all instructions and warning labels on the unit and in this manual. Keep this manual in a convenient, easy-to-access location for future reference. Always comply with applicable local laws and regulations during installation, operation, and maintenance. Failure to follow these guidelines may result in personal injury, including serious harm or death, as well as damage to the inverter and surrounding property.

⚠ DANGER! ⚠

Inverter and the system it is connected to are power fed from more than one source. All of the disconnecting means must be off to ensure complete de-energization of the equipment. Read the system single line diagram before performing any operation.

Residential indoor usage certified
This product is certified to UL9540, UL9540A and UL1973 providing greater installation flexibility when installed in accordance with the installation manual.

1.1 SYMBOLS USED

Symbol	Description
	Danger of high voltage and electric shock! Only qualified personnel may perform work on the inverter.
	Residual voltage exists after the inverter is powered off. It takes 5 minutes for system to discharge to a safe voltage.
	Danger of hot surface.
	Environmental Protection Use Period
	Refer to the operating instructions.
	Product should not be disposed as household waste.
	Grounding terminal.

1.2 GENERAL SAFETY

⚠ DANGER! ⚠

Installation, maintenance, and connection of inverters must be performed by qualified personnel in compliance with all local electrical standards, wiring rules, and the requirements of local utility authorities.

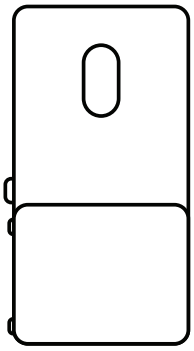
⚠ WARNING!

- **The temperature of certain inverter components may exceed 60°C during operation. To prevent burns, do not touch the inverter while it is operating.**
- **Ensure children are kept away from the inverter.**
- **Do not open the front cover of the inverter. Unauthorized contact or modification of internal components, beyond connecting to the wiring terminals (as instructed in this manual), may result in injury, damage to the inverter, and void the warranty.**
- **Static electricity may damage electronic components. Appropriate measures must be adopted to prevent such damage; otherwise, the inverter may be damaged, and the warranty will be voided.**
- **Ensure the output voltage of the PV array is lower than the inverter's maximum rated input voltage; exceeding this limit may damage the inverter and void the warranty.**
- **The PV array has dangerously high DC voltage. Follow all instructions carefully to avoid life-threatening hazards.**
- **PV modules should be approved by the local AHJ to use, such as having the certificate CSA C22.2 No. 61730.**
- **If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.**
- **Disconnecting the switches on the inverter is NOT safe enough to any operation of wiring or maintenance. Hazardous voltage is still remain on the cable from the source**

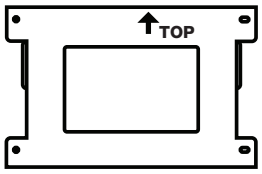
- **Completely isolate the inverter before performing maintenance. To do so, you must read the inverter single-line diagram and identify all power sources and disconnecting means. Turn OFF the switches on the power source side, such as the PV combiner box, battery breaker, generator switch, and the utility AC terminal on the panel.**
- **Even after the inverter is powered off, residual electricity and heat may still pose a risk of electric shock and burns. Do not touch any inverter components for 10 minutes after disconnecting all power sources.**
- **Do not insert or remove AC and DC terminals while the inverter is operating.**
- **The BACKUP Port should not be connected to the utility grid.**
- **BACKUP Port might be supplied by the parallel inverters in parallel. Read the single line diagram, cut OFF all the power sources and ensure it is completely de-energized before the operation.**
- **The BAT Port must not be connected to PV or AC voltage. The voltage connected to this port must not exceed 64 V DC.**
- **The GRID Port must not be connected to PV voltage.**
- **A single PV panel string should not be connected to two or more inverters.**
- **A manual transfer switch or automatic transfer switch is suggested for use with the BESS,to ensure the power supply during the utility and AHJ registration process, and enhance overall energy security.**

2. LEARN ABOUT YOUR INVERTER

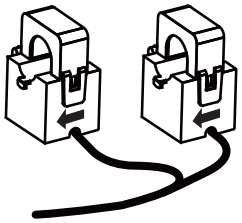
2.1 MAKE SURE YOU HAVE EVERYTHING



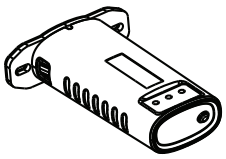
1x Inverter



1x Mounting Bracket



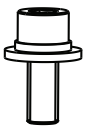
2x Current Transformers



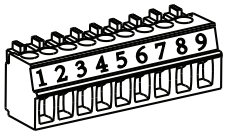
1x Wifi Module



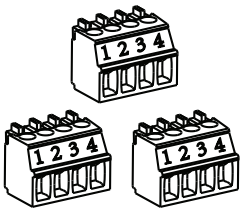
4x M6 Self Tapping Screws



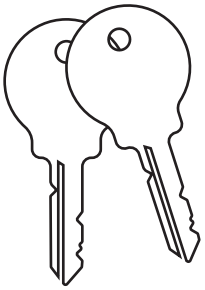
1x M6 Security Screw



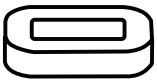
1x 9-Pin Terminal



3x 4-Pin Terminals



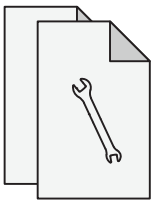
2 x Keys



1x AC Toroid (For Grid, L1, L2, N Cables)

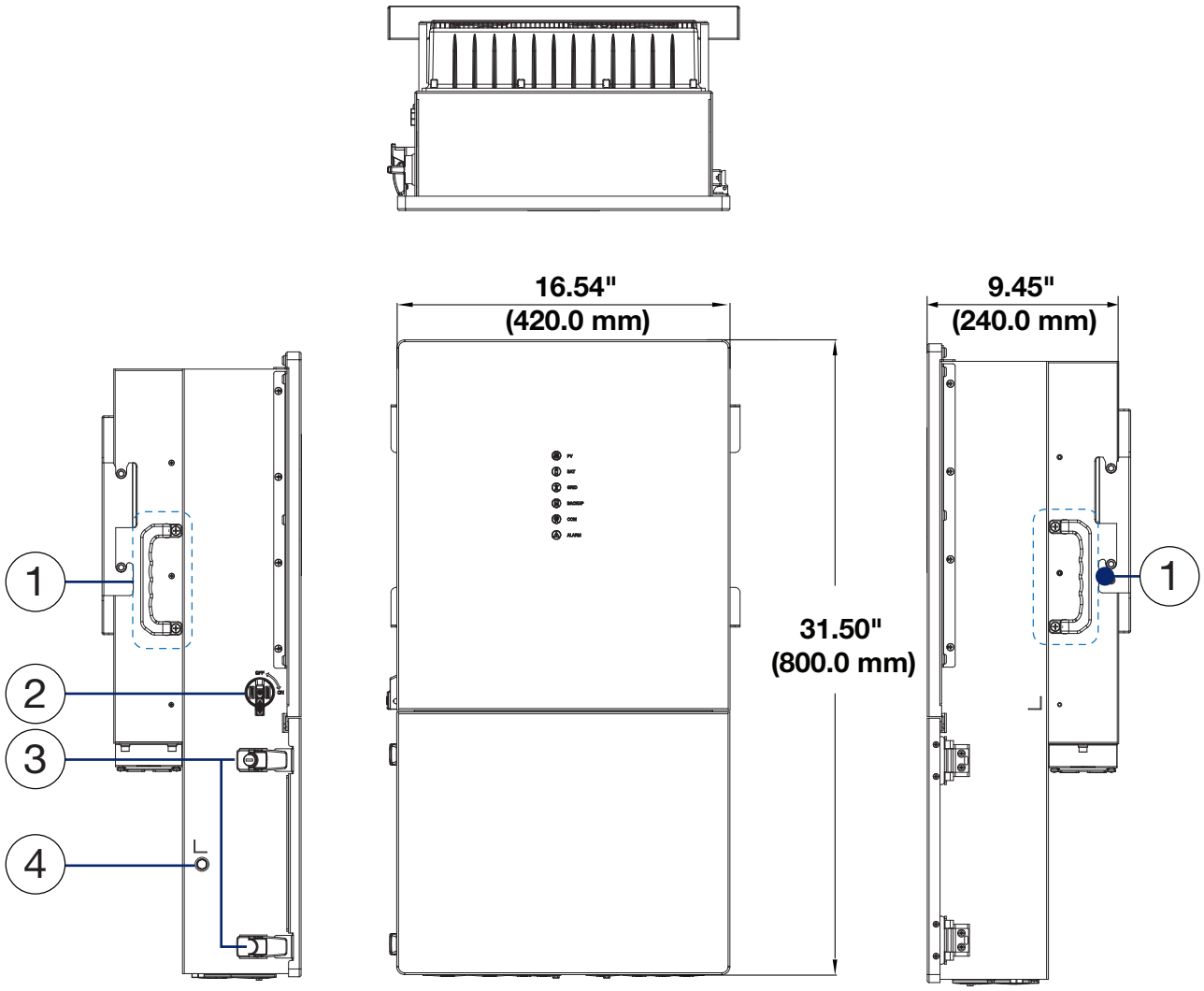


1x DC Toroid (For Battery Cables)

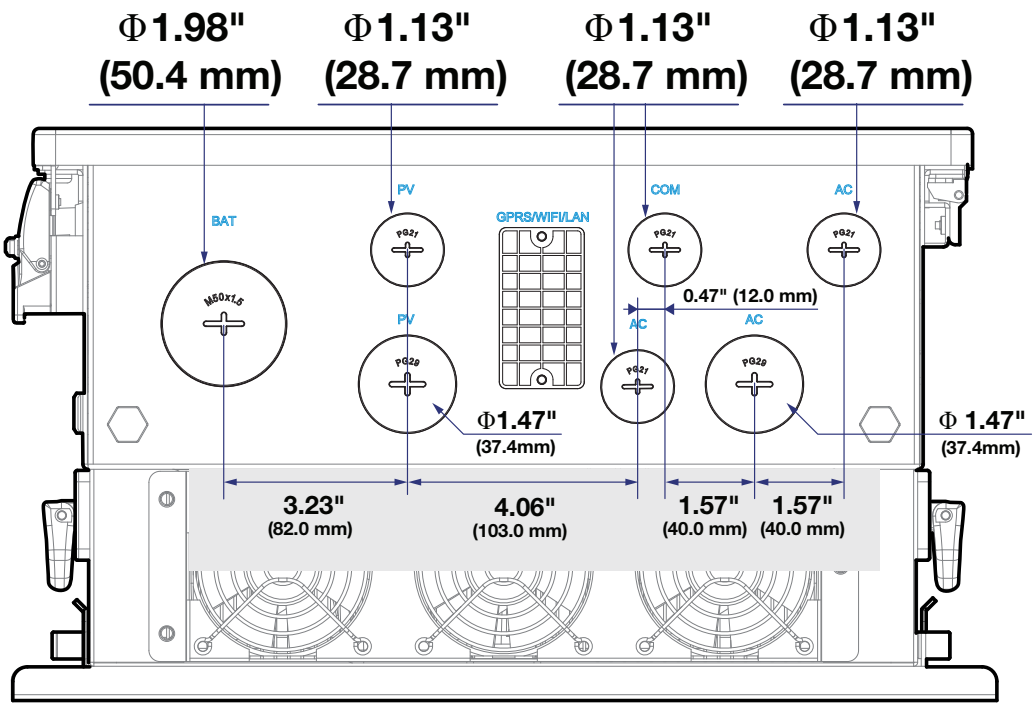


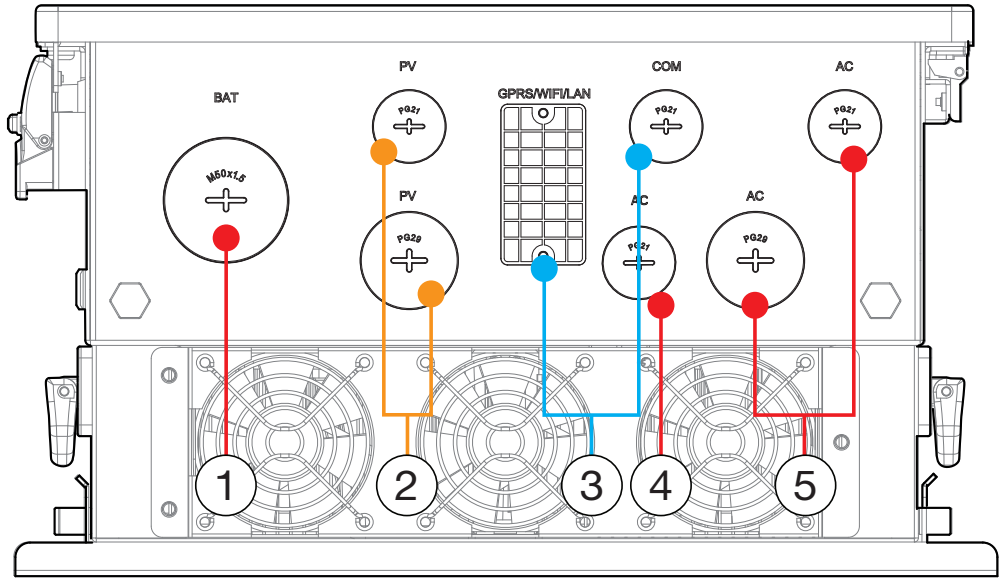
1x English Manual
1x French Manual

2.2 COMPONENT IDENTIFICATION

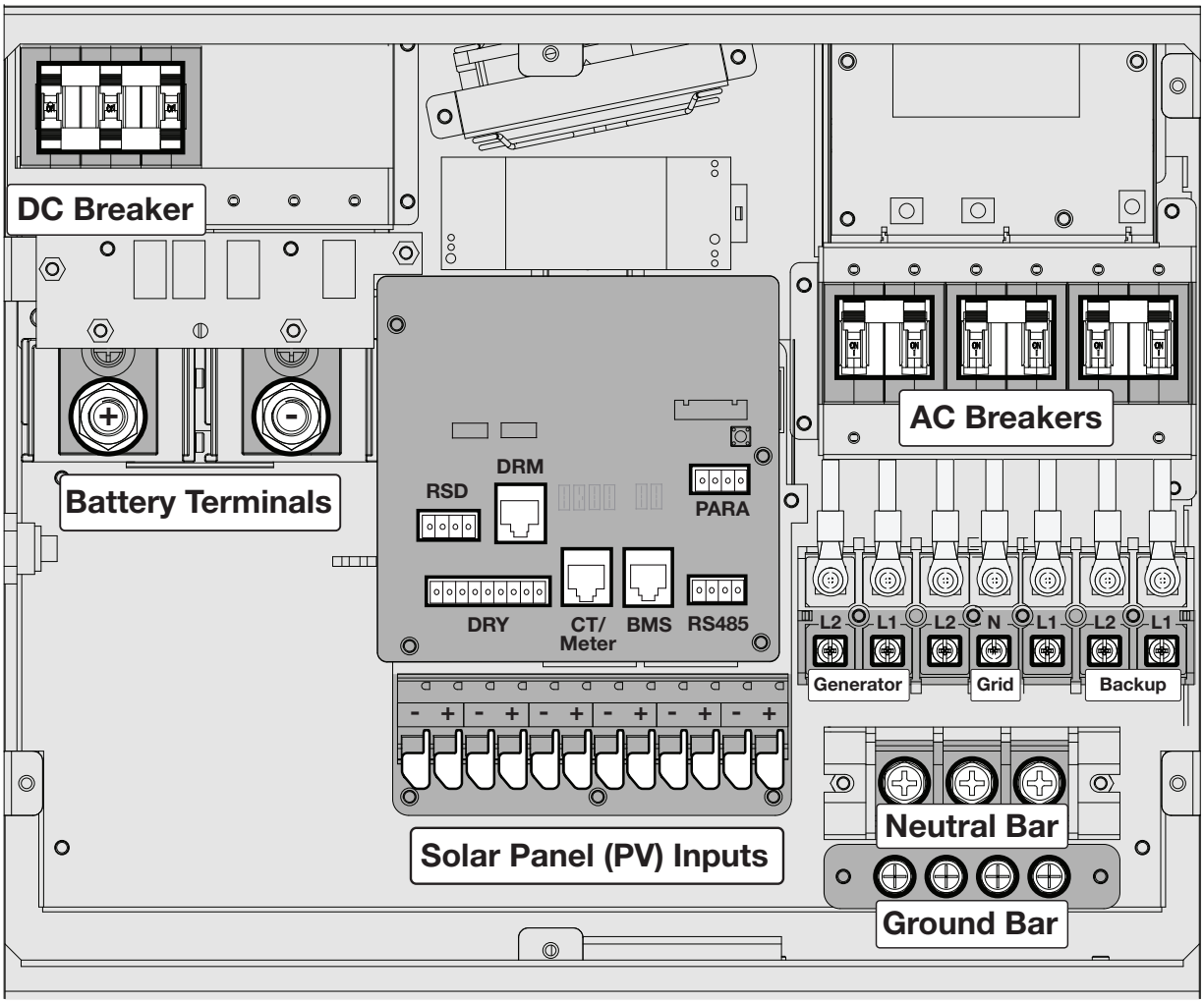


1. Mounting Support Handle
2. PV Lockout Switch
3. Electrical Panel Locks
4. Power Button





1. Battery Port
2. PV Ports
3. Wifi Module Port
4. AC Power Port
5. Grid/Generator/Backup Power Ports

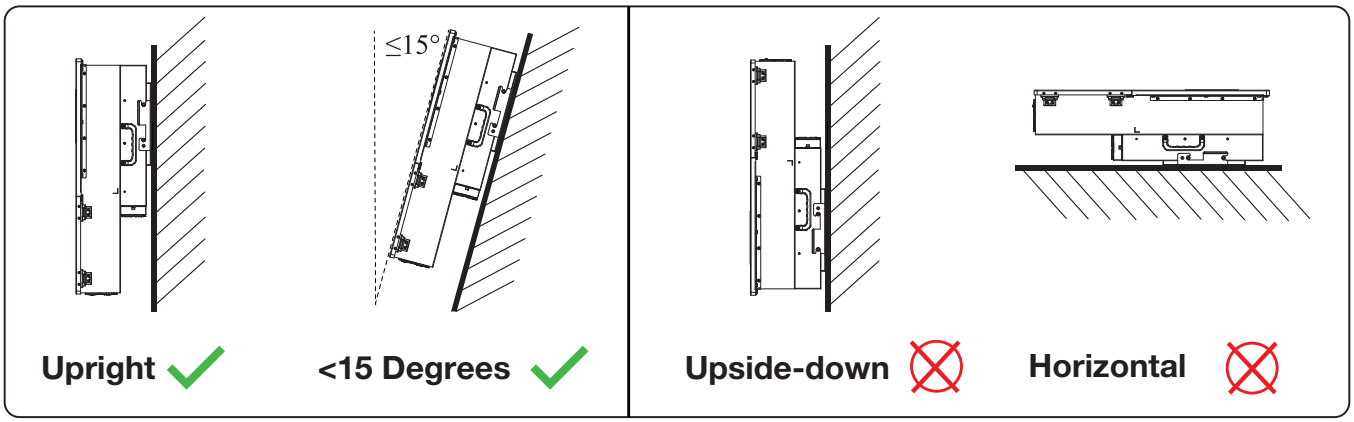

DC Breaker
Battery Terminals
AC Breakers
RSD
DRM
PARA
DRY
CT/
Meter
BMS
RS485
L2
L1
L2
N
L1
L2
L1
Generator
Grid
Backup
Solar Panel (PV) Inputs
Neutral Bar
Ground Bar

3. MOUNTING THE INVERTER

3.1 ENVIRONMENTAL REQUIREMENTS

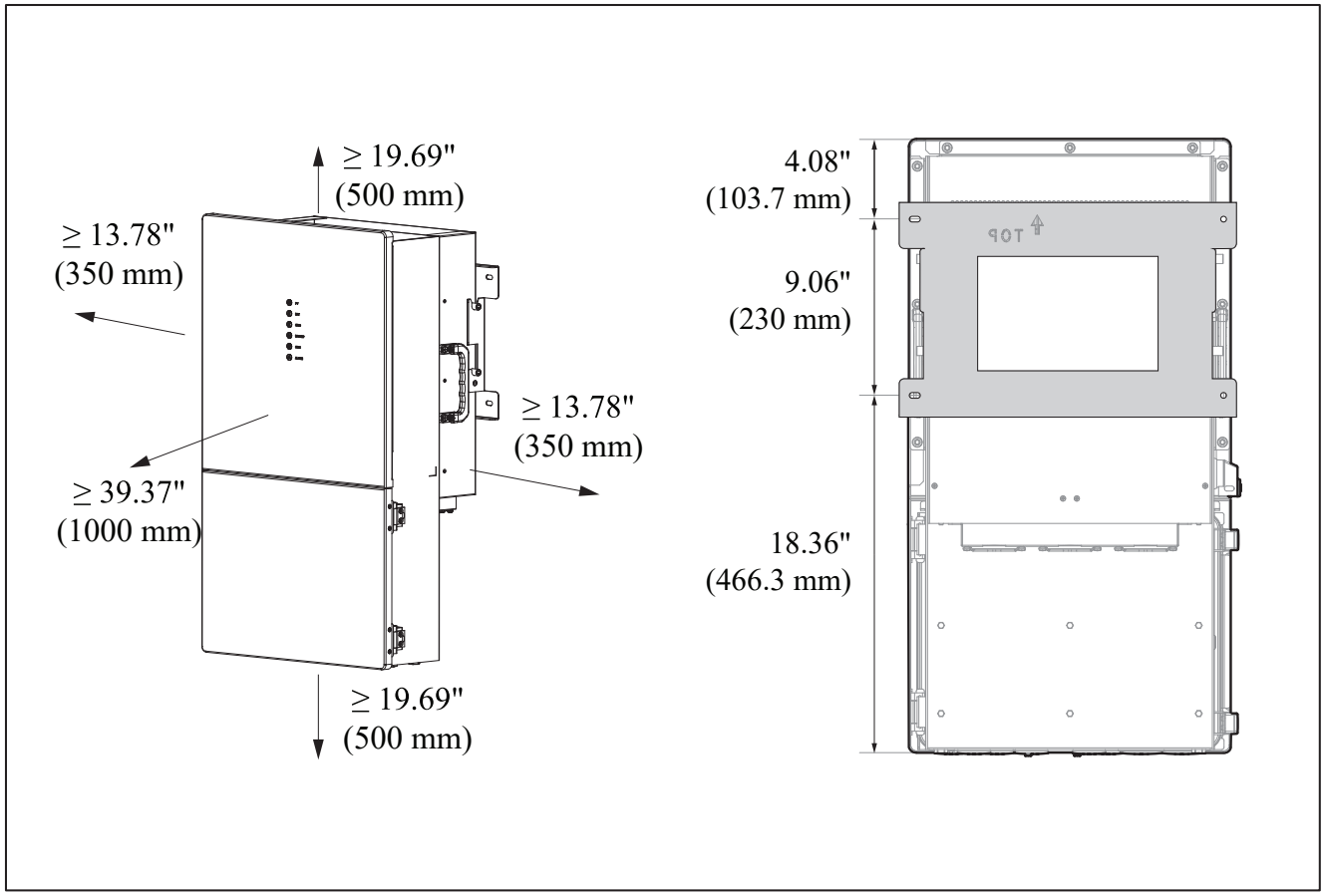
- With a NEMA 3R protection rating, the inverter can be mounted indoors.
- For optimal operation and long service life, the ambient temperature must remain above -20°C and below 50°C.
- Do not install it in the bedroom or in any room that has a door opening directly into it.
- The mounting location must be inaccessible to unauthorized personnel, as the enclosure and heat sinks can become extremely hot during operation.
- Do not install the inverter in areas containing highly flammable materials or gases.
- The inverter must be mounted in a well-ventilated environment to ensure good heat dissipation.
- Mount the inverter on a stub frame, or a concrete wall. Ensure the mounting surface can safely support the weight of the inverter.
- The installation height should be reasonable to ensure ease of operation and display viewing.
- The product label and warning symbols must be clear to read after installation.
- To ensure long service life, the inverter must not be exposed to direct sunlight, rain, or snow.

3.2 MOUNTING REQUIREMENTS



- Mount the inverter vertically or with a maximum backward tilt of 15°. Do not install the inverter in any other orientation. The connection area must always face downward.

3.3 INSTALLATION SPACE REQUIREMENTS

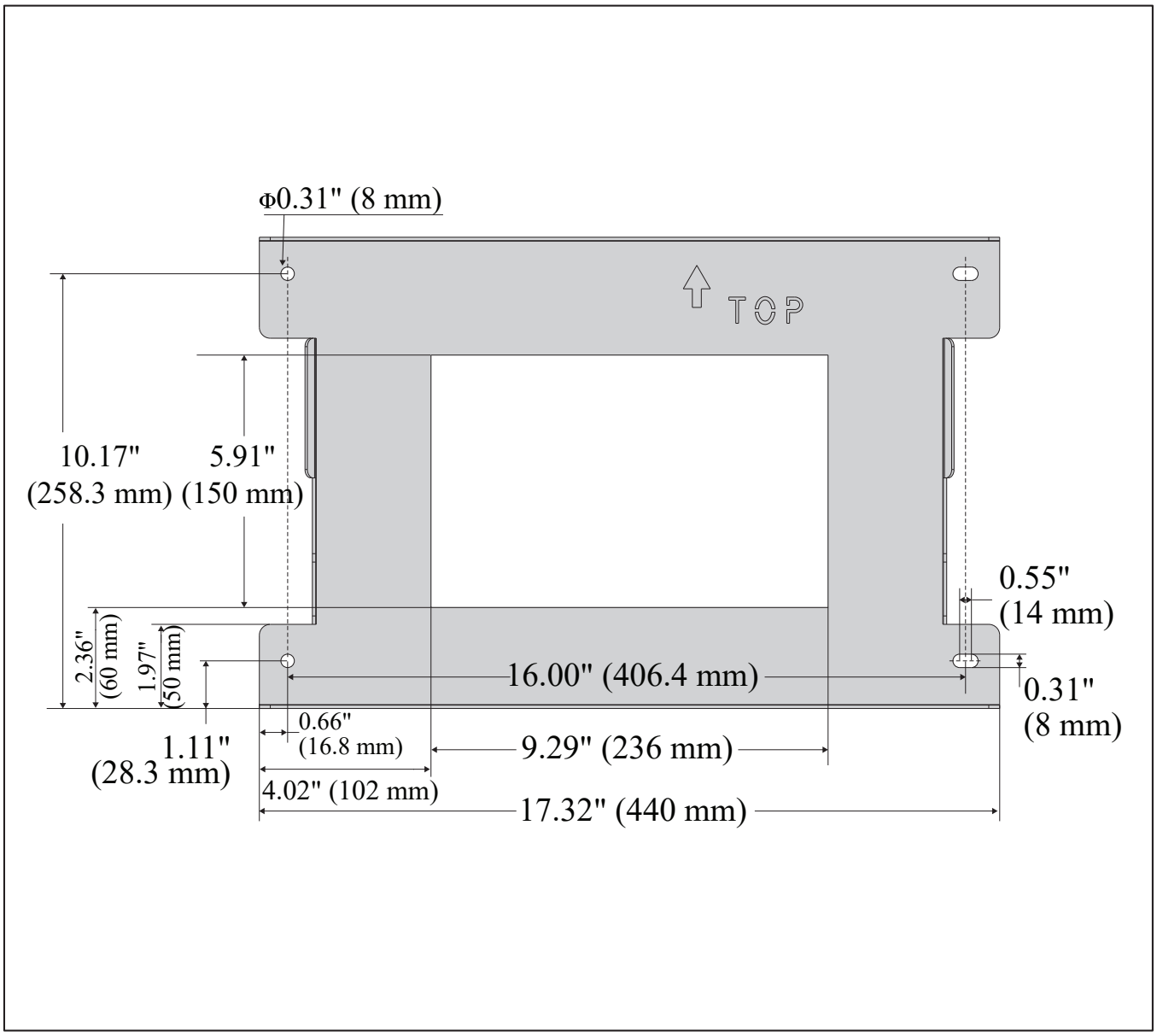


- To ensure optimal performance and proper heat dissipation, a minimum clearance of 1 m must be maintained around the unit.
- Ensure all related local laws and regulations have been complied with. The detailed clearance information below provides general guidelines. A minimum clearance of 1 m is recommended from the inverter or batteries to doors or windows.

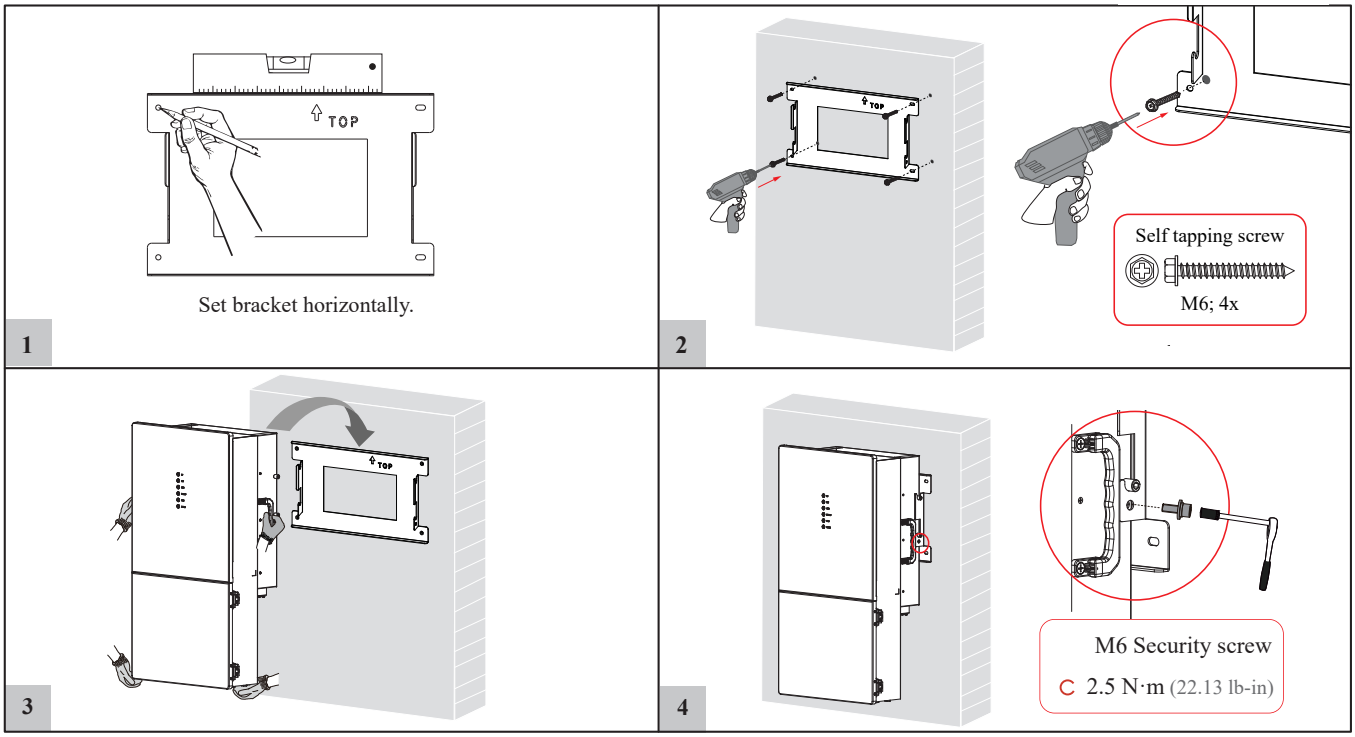
3.4 MOUNTING THE INVERTER

⚠ WARNING!

- **Before drilling holes in the wall, ensure no damage to electric wires or water pipes inside the wall.**
- **The inverter is heavy! Two or three strong and able-bodied people are recommended to install the inverter. To prevent potential damage and injury from the inverter falling, ensure it is securely mounted.**



- Before mounting the inverter, prepare all appropriate tools such as a screwdriver, drill, impact driver, and a marker. You may need expansion plugs or anchors for concrete. The dimension of the mounting bracket is shown in the figure above.



1. Position the mounting bracket against the mounting surface, ensure it is level, and mark the mounting hole locations.
2. Drive the screws through the mounting bracket into the mounting surface. Ensure the bracket is securely fastened.
3. Hang the inverter onto the mounting bracket.
4. Secure the inverter using the security screw.

4. WIRING DIAGRAM

⚠ DANGER! ⚠

Ensure that the inverter and all cables to be installed have been completely powered off throughout the installation and connection process. Otherwise, high voltage may result in fatal injury.

This chapter contains details for Split-Phase single inverter setups. Detailed electrical connection instructions can be found in CHAPTER 5: "ELECTRICAL CONNECTIONS".

For Multiple Inverters in Parallel mode, contact Customer Support.

NOTE

- BMS communication connection is only for lithium batteries.
- For Multiple Inverters in Parallel mode, contact Customer Support.
- External DC/AC breakers are not supplied with the inverter and must be purchased separately.

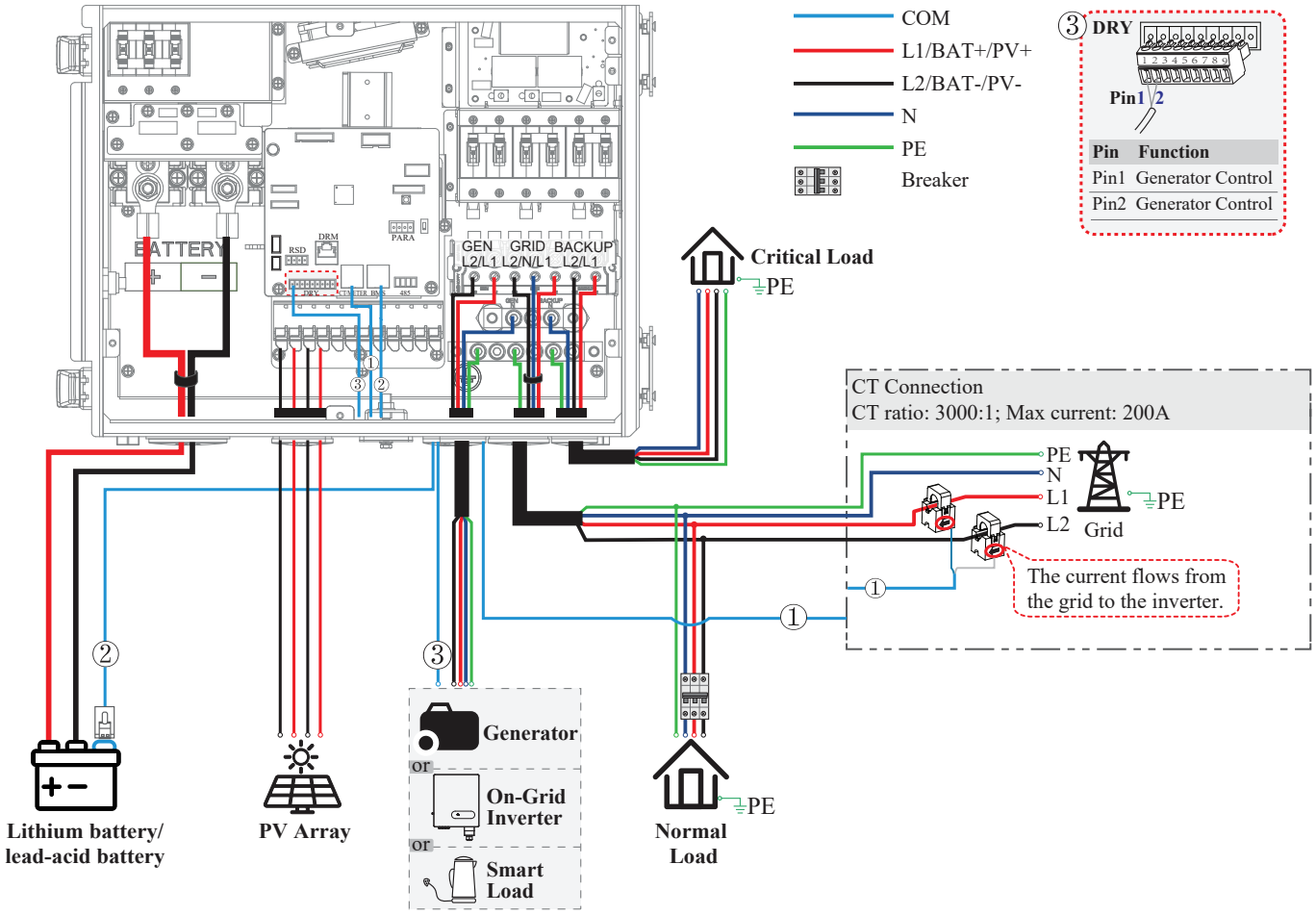
4.1 STANDARD NON-PARALLEL WIRING DIAGRAM

⚠ DANGER! ⚠

Ensure that the inverter and all cables to be installed have been completely powered off throughout the installation and connection process. Otherwise, high voltage may result in fatal injury.

Standard Non-parallel Wiring Diagram *Diagram 01*

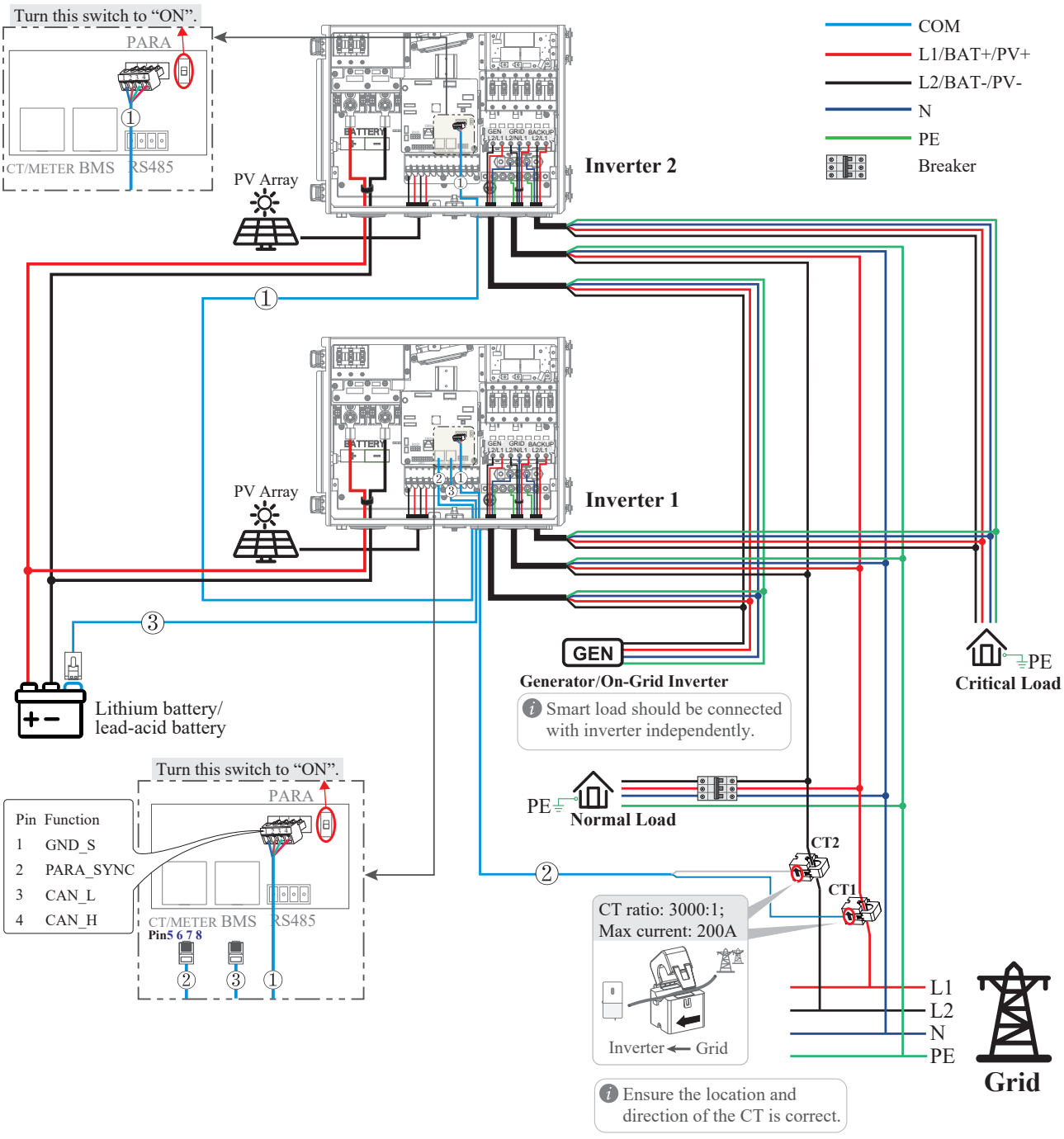
120/240Vac Split Phase
120/208Vac 2/3 Phase



① CT communication connection
② BMS communication connection (only for lithium battery)
③ DRY communication connection

4.2 SPLIT PHASE OUTPUT WIRING DIAGRAM

Split Phase Parallel Connection Mode-Scheme A (N=2) *Diagram 02*

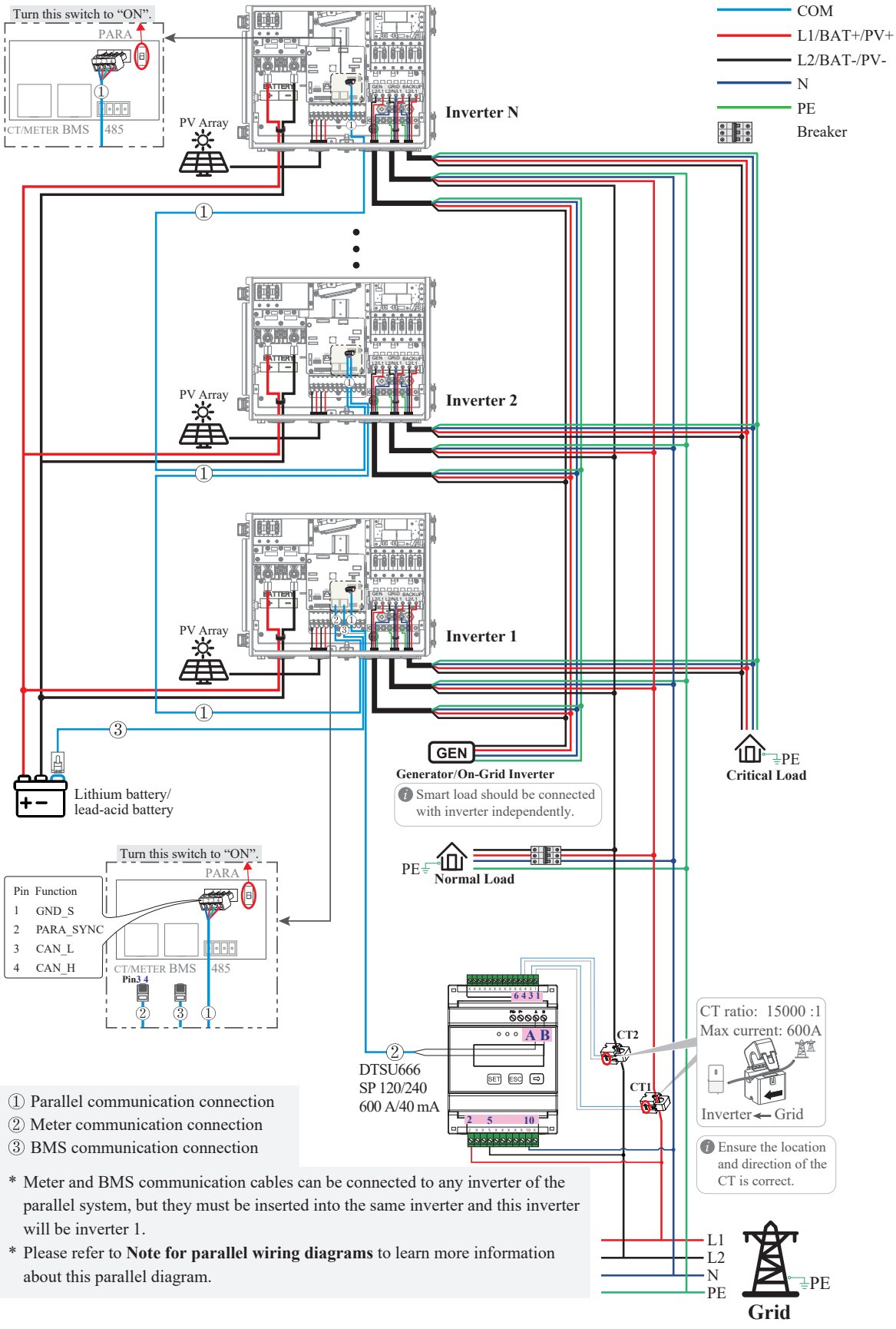


① Parallel communication connection
② CT communication connection
③ BMS communication connection

* CT and BMS communication cables can be connected to any inverter of the parallel system, but they must be inserted into the same inverter and this inverter will be inverter 1.
* Please refer to **Note for parallel wiring diagrams** to learn more information about this parallel diagram.

4.2 SPLIT PHASE OUTPUT WIRING DIAGRAM

Split Phase Parallel Connection Mode-Scheme B (2≤N≤9) *Diagram 03*



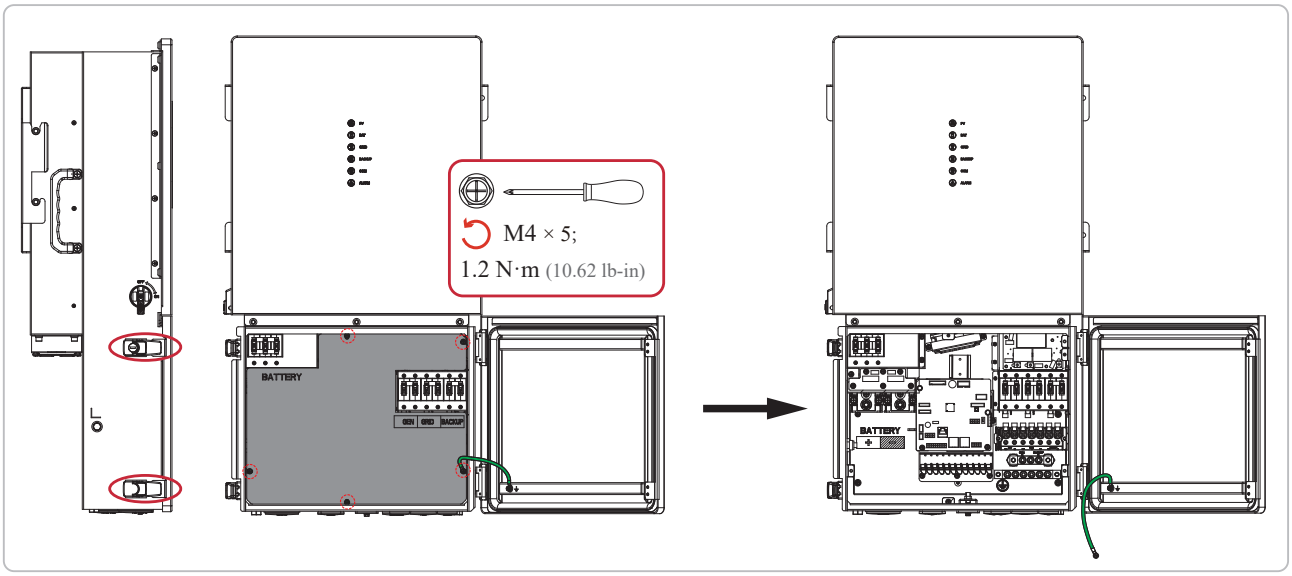
① Parallel communication connection
② Meter communication connection
③ BMS communication connection

* Meter and BMS communication cables can be connected to any inverter of the parallel system, but they must be inserted into the same inverter and this inverter will be inverter 1.

* Please refer to **Note for parallel wiring diagrams** to learn more information about this parallel diagram.

5. ELECTRICAL CONNECTIONS

5.1 REMOVING INSULATION COVER AND GROUND CABLE



1. Open the side locks on the inverter.
2. Remove the screws securing the insulation cover.
3. Remove the grounding cable, applying a torque of 1.2 N·m (or 10.62 lb-in).

5.2 INTERNAL GROUNDING

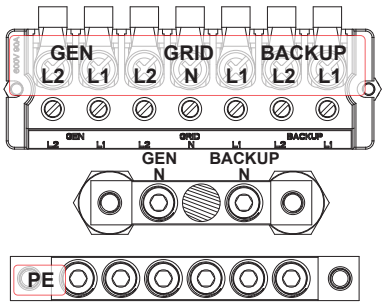
⚠ DANGER! ⚠

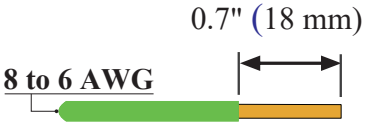
The inverter must be grounded for safety.

Do not ground the positive or negative pole of the PV arrays.

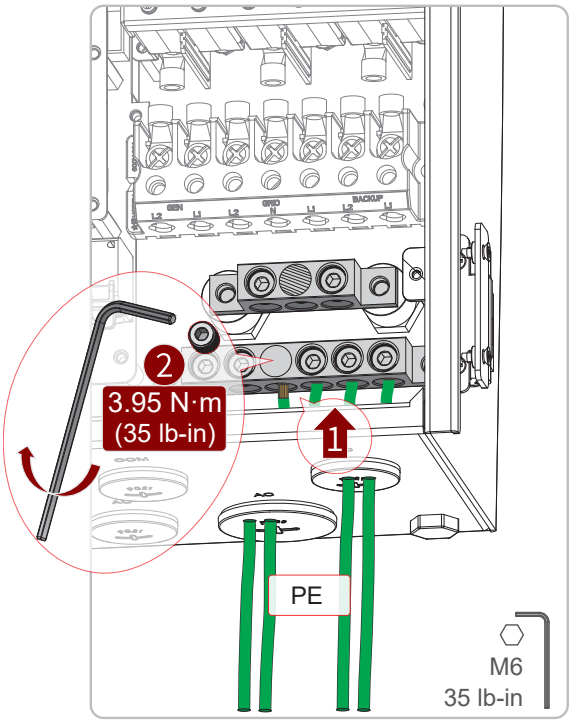
- A protective earth (PE) busbar is already equipped inside the inverter's wiring box. To ensure reliable grounding, you must connect the PE cable to this PE busbar.
- Use a minimum gauge size of AWG 8 green or green-yellow wire for the grounding connection.

Terminals Overview





Items	Remark
PE cable size	Min. 8 AWG
Strip length	0.7" (18 mm)
Screw	M6
Torque	35 lb-in



1. Thread the wires into the wiring box through the designated AC connection ports (Grounding, GRID, BACKUP, and GEN).

2. Attach the PE cable to the busbar as illustrated in the provided diagrams.

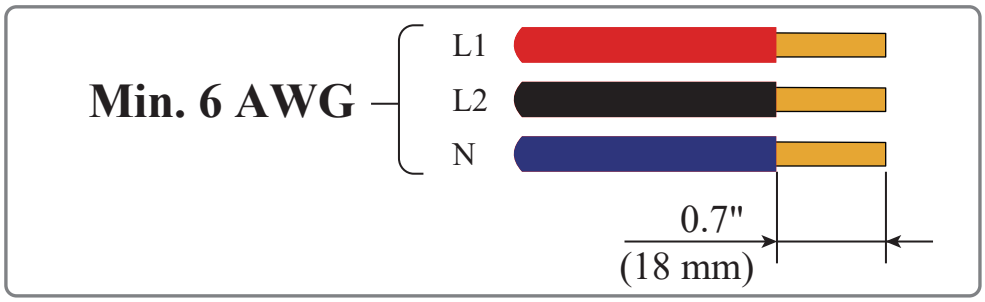
3. Tighten the terminal screws with a torque of 3.95 N·m or 35 lb-in.

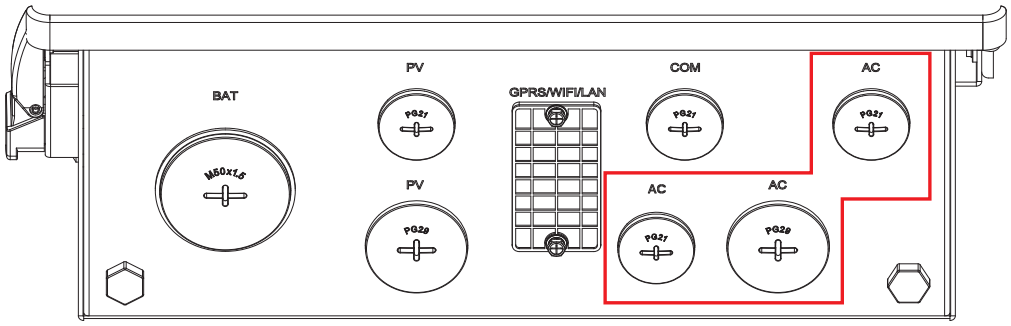
4. Confirm that all cables are securely in place.

5.3 GRID/BACKUP/GEN CONNECTIONS

⚠ DANGER! ⚠

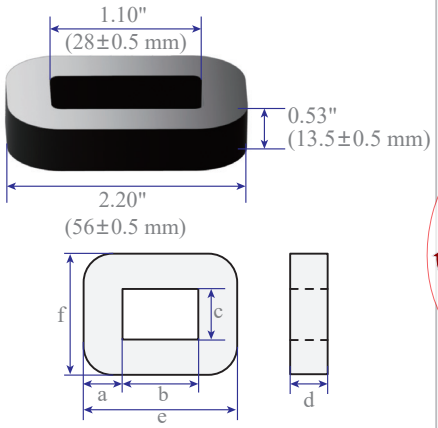
Before connecting the GRID, BACKUP, or GEN terminals, you must ensure that both the AC terminal and the DC terminal are powered off and the PV switch is set to the OFF position. Failure to do so poses a serious risk of high voltage shock.



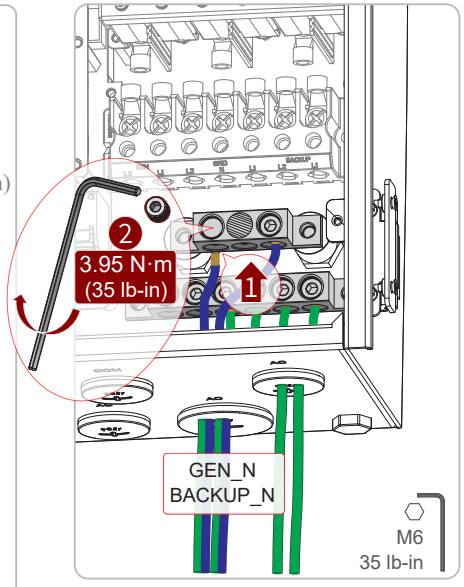


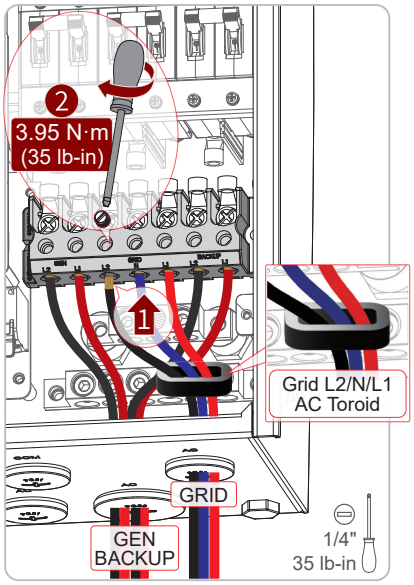
1. Use the proper cable type as recommended and strip the cable insulation to the appropriate length. Using cables specifically designed for outdoor environments is recommended.
2. Thread the prepared wires into the wiring box through the designated AC ports.

AC Toroid Dimension:



Case Dimension		
a (mm)	14.00	±0.5
b (mm)	28.00	±0.5
c (mm)	20.00	±0.5
d (mm)	13.50	±0.5
e (mm)	56.00	±0.5
f (mm)	48.00	±0.5





3. Insert the wire into the terminal block, matching the wire to the corresponding label (L1, L2, N, etc.), as shown in the accompanying figure (not provided here).
4. Tighten the terminal screws with a torque of 3.95 N·m or 35 lb-in.
5. Finally, confirm that all wires are securely fastened in place.

NOTE

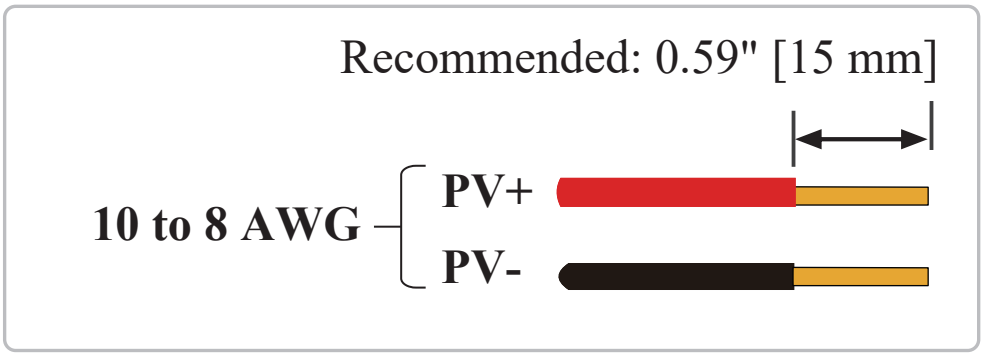
- When connecting the L1, L2, and N cables to the GRID terminals, you must first thread these three cables through an AC toroid.
- The AC cable connection ports shown in the accompanying illustrations are for reference only. Select the appropriate physical ports on the inverter as required for your installation.

5.4 PV CONNECTIONS

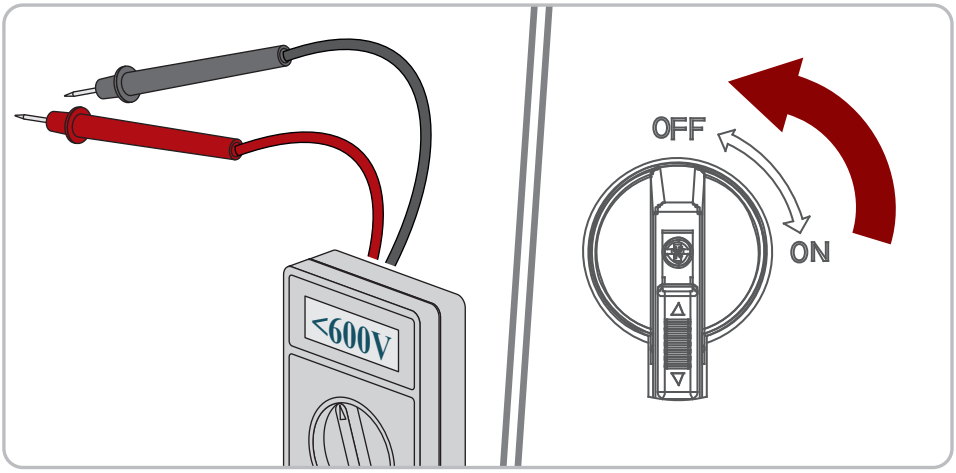
⚠ DANGER! ⚠

Photovoltaic arrays exposed to sunlight generate dangerous high voltages.

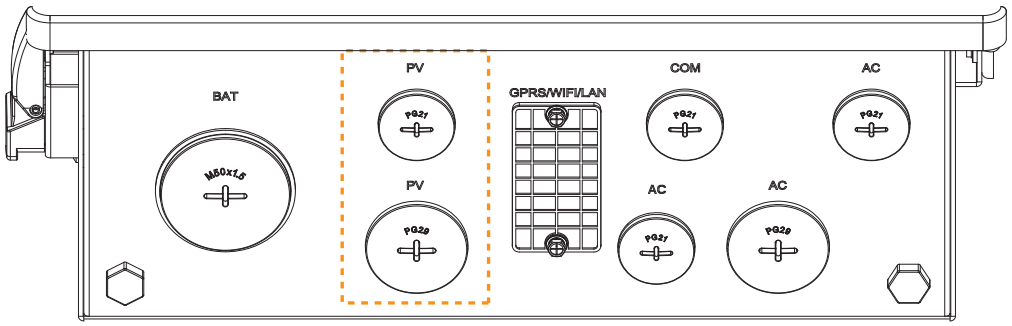
Before connecting the PV terminals, you must ensure that both the AC terminal and the DC terminal are powered off and the PV switch is set to the OFF position. Failure to follow this procedure presents a serious risk of high voltage electric shock.



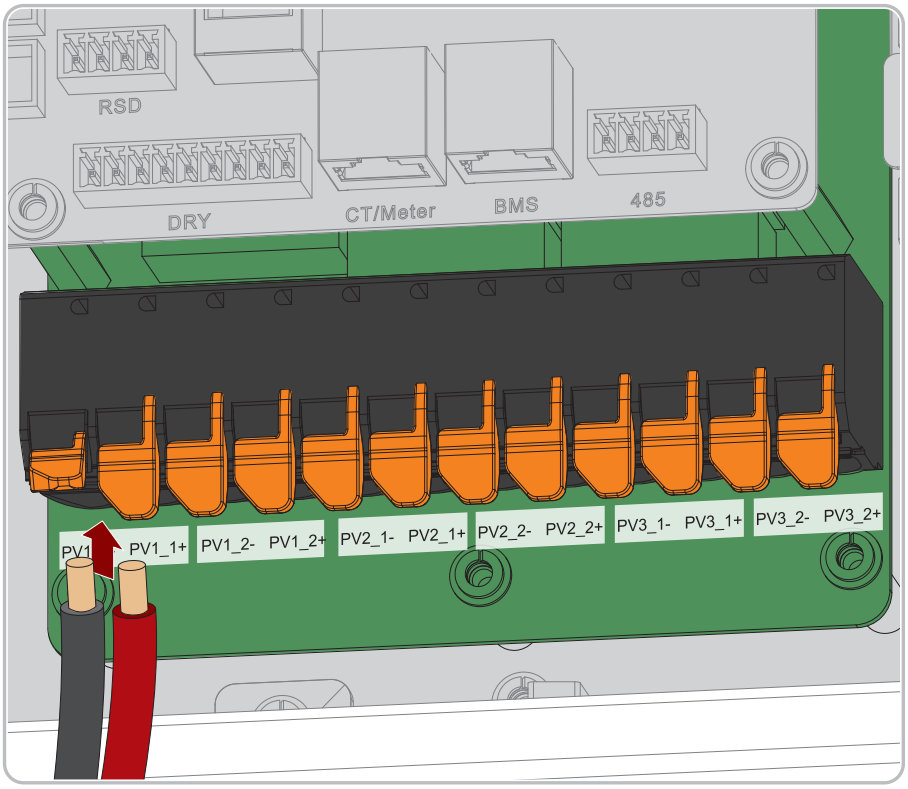
1. Use the proper cable type as recommended and strip the cable insulation to the appropriate length. It is recommended to use dedicated outdoor-rated PV cables.



2. Verify the correct polarity of the wire connections from the PV modules and the PV input connectors.
   The test voltage must not exceed 600 V DC.
3. Ensure that the PV switch is set to the OFF position.



4. Thread the wires into the wiring box through the PV connection ports.



5. Flip up the switches of the PV input connector.
6. Insert the stripped cable into the PV input connector, ensuring that the stripped cable and the PV input connector have the same polarity.
7. Finally, flip down the cover and confirm that the wires are securely and tightly fixed.

PV String & MPPT configuration

	MPPT 1 (30A)		MPPT 2 (22A)		MPPT 3 (22A)	
String	PV1_1	PV1_2	PV2_1	PV2_2	PV3_1	PV3_2
Max Current (A)	30A	30A	22A	22A	22A	22A
Max Power (kW)	A1 + A2 ≤ 10kW		B1 + B2 ≤ 6.6KW		C1 + C2 ≤ 6.6KW	
MPPT Voltage (V)	70-540					

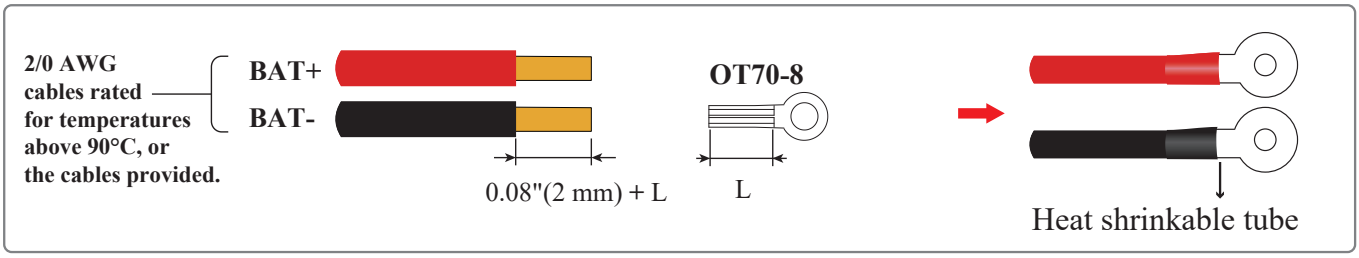
Total PV power: MPPT 1 + MPPT 2 + MPPT 3 ≤15kW

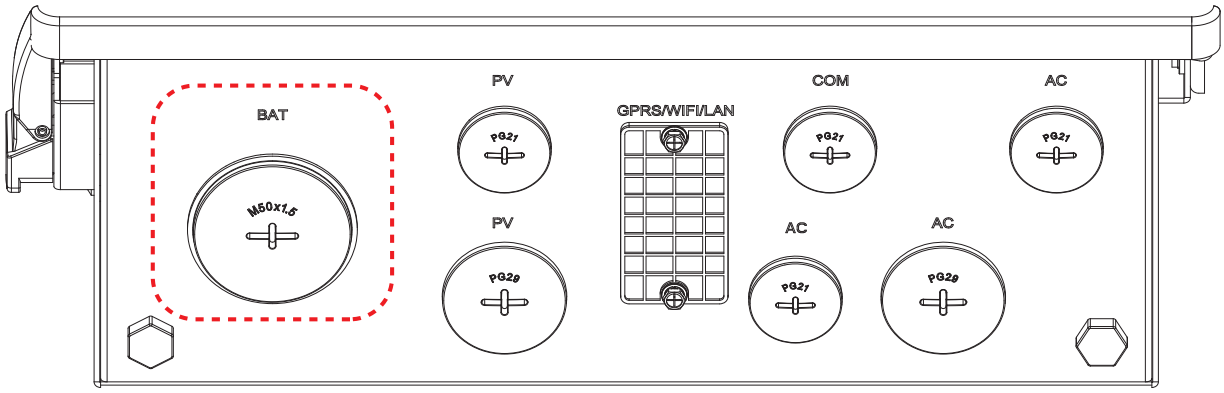
5.5 BATTERY CONNECTION

⚠ DANGER! ⚠

Before connecting the battery terminals, you must ensure that both the AC terminal and the DC terminal are powered off and the PV switch is set to the OFF position. Failure to follow this procedure presents a serious risk of high voltage electric shock.

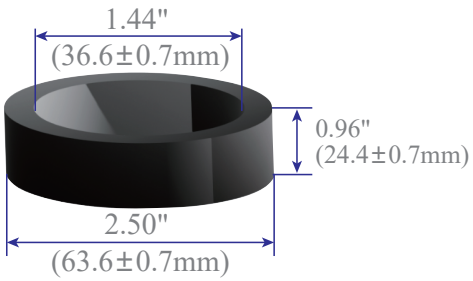
Reverse polarity will damage the inverter! Do not swap positive or negative connections.

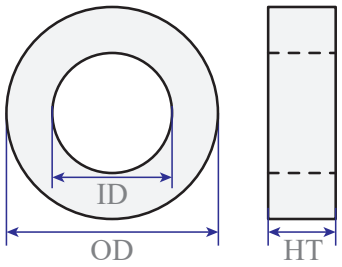




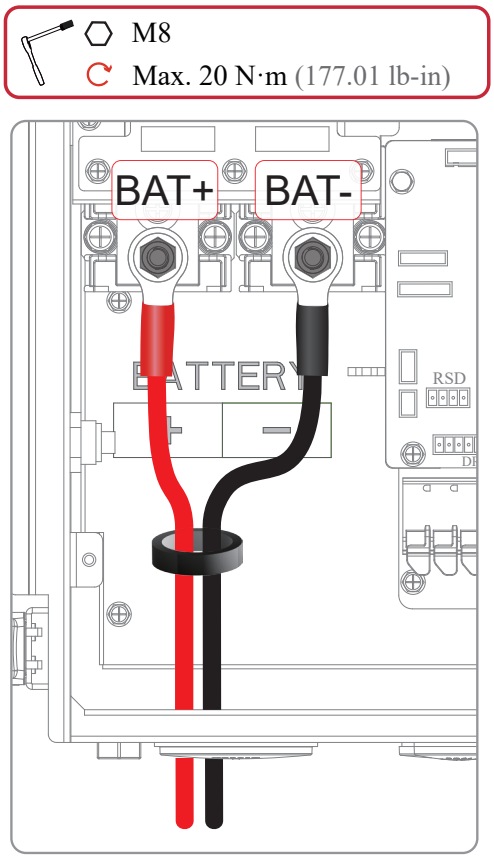
1. Prepare the proper cable and the recommended OT terminal.
2. Strip the cable insulation to the appropriate length.
3. The length of the battery cable should be 3 meters or less.

DC Toroid Dimension:

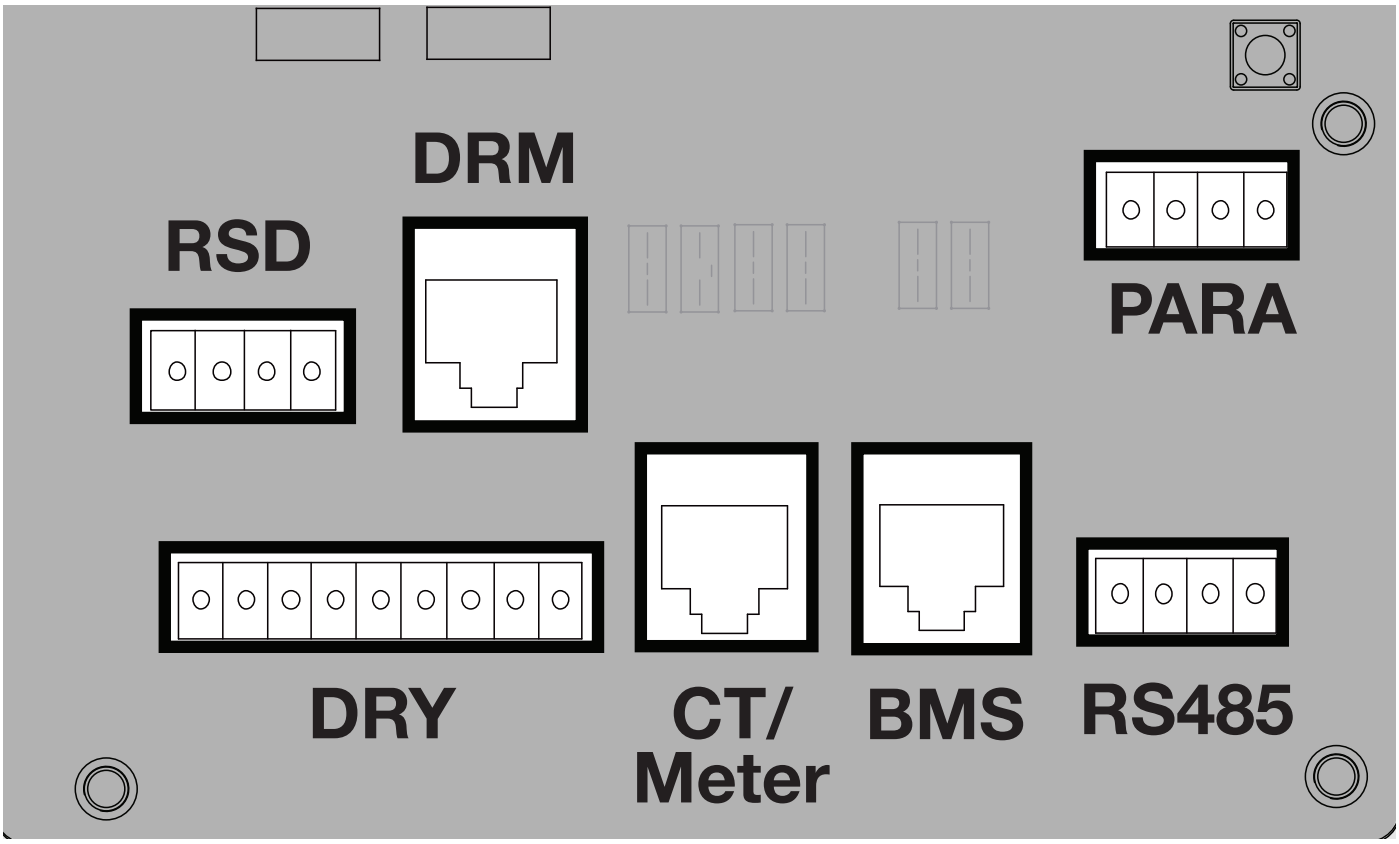




Case Dimension		
OD (mm)	63.55	±0.7
ID (mm)	36.57	±0.7
HT (mm)	24.40	±0.7



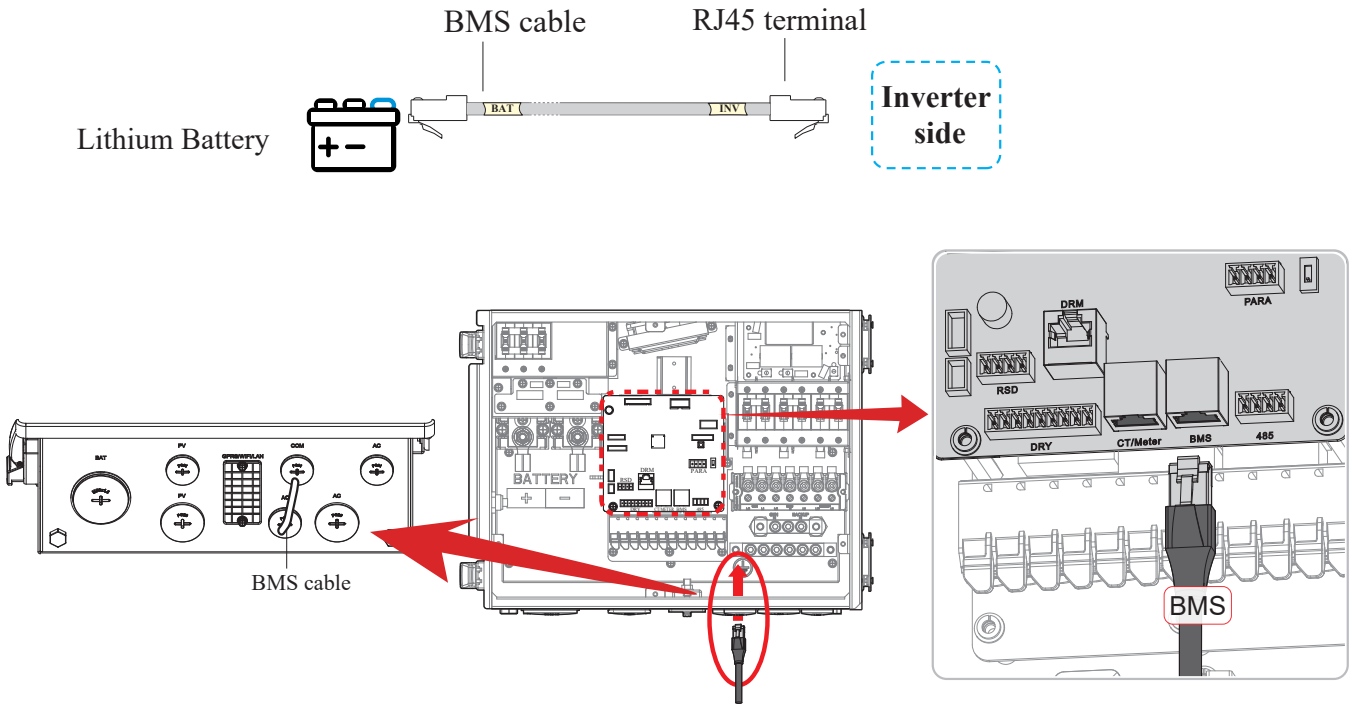
6. COMMUNICATION CONNECTIONS



Interface		Description
PARA		4-Pin interface for parallel communication.
		A matched resistance switch for parallel communication.
485		4-Pin interface for RS485 communication.
DRM		Demand response mode for Australian applications.
CT		For CT Communication.
BMS		Battery Management System Communication interface.
	GEN	Generator 2-Wire Start Control.
	NTC	Temperature sensor terminal.
	RMO	Remote Shut-Down Control.
	DRY	DI/DO Control.
RSD		RSD Control Interface.
GPRS/WIFI/ LAN		For GPRS/WIFI/LAN Communication.

6.1 BMS (BATTERY MANAGEMENT SYSTEM) CONNECTION

Use BMS Communication Cable as Standard



1. Lead the BMS cable through the COM port of the 16kWh battery..
2. Insert the RJ45 terminal into BMS port.

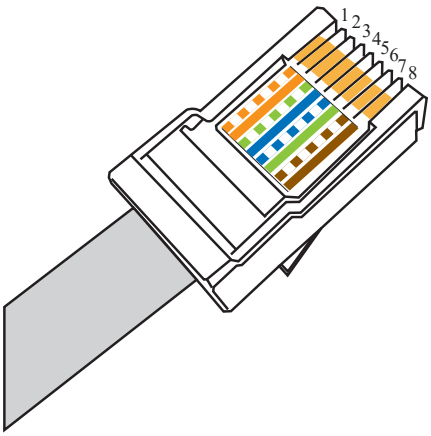
BMS Cable Preparation

1. Obtain the RJ45 terminals and strip the COM (communication) cables to the appropriate length.
2. Based on the pin definitions and the required cable order, assemble the RJ45 terminals and crimp the communication wires securely.
3. Label the RJ45 terminals (e.g., BAT for Battery or INV for Inverter) to prevent any confusion during installation.
4. After completing the wire assembly, use a multimeter or other specialized tool to check the cable for connectivity, short circuits, or incorrect wiring.

NOTE

- This manual only illustrates the pinout sequence of the BMS connector on the INVERTER SIDE.
- For detailed information about the pinout sequence on the BATTERY SIDE, you must refer to the specific user manual for the battery model you are using. The following pinout diagram of the battery side is included only for general illustration purposes.
- Always face the flat side of the terminal. Count the pin slots from left to right, starting from 1 up to 8.
- Always read the pin definitions for both the battery and the inverter carefully to ensure correct matching and connection.

Standard RJ45 Pinout





RJ45 Pin Configuration	
Pin	**Color**
1	White-Orange
2	Orange
3	White-Green
4	Blue
5	White-Blue
6	Green
7	White-Brown
8	Brown

Pin Definition of Terminals

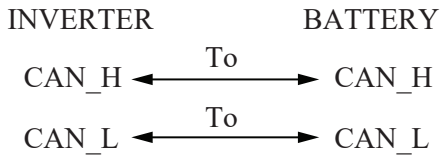
INVERTER:

Inverter	
Pin	**Definition**
1	/
2	/
3	/
4	CAN_H
5	CAN_L
6	/
7	/
8	/

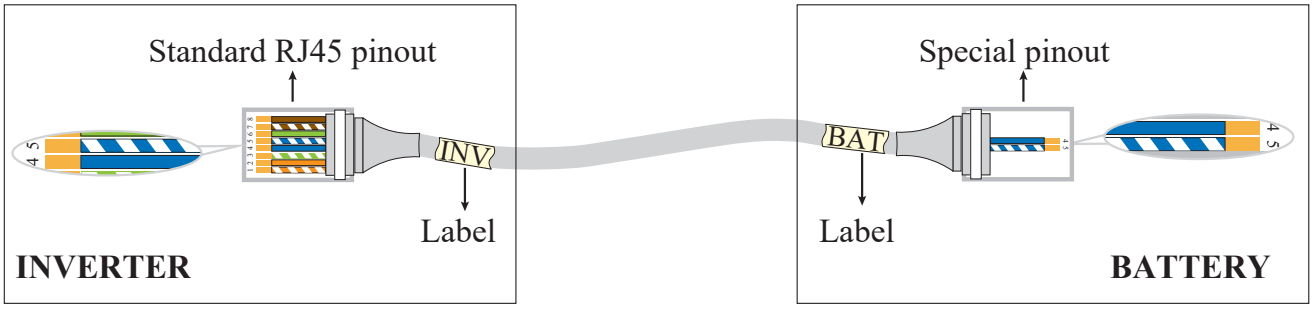
BATTERY:
Taking one battery's pin configuration as an example.

Battery Example	
Pin	**Definition**
1	/
2	/
3	/
4	CAN_H
5	CAN_L
6	GND
7	/
8	/

CAN BUS connection principle

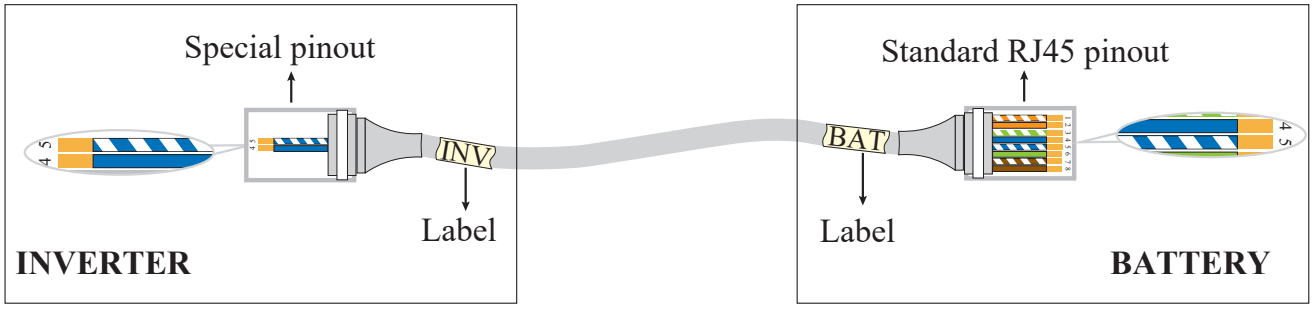


Method 1: Optional Inverter Pinout



1. Crimp the wires using the INVERTER RJ45 pinout as the standard configuration.
2. The resulting battery-side connection will have a non-standard (special) pinout.
3. Action: Cut off the unnecessary wires (pins 1, 2, 3, 6, 7, and 8) for the battery RJ45 terminal.

Method 2: Optional Battery Pinout



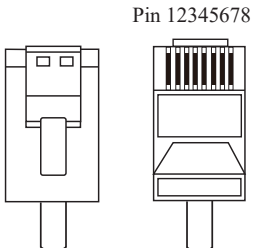
1. Crimp the wires using the BATTERY RJ45 pinout as the standard configuration.
2. The resulting inverter-side connection will have a non-standard (special) pinout.
3. Action: Cut off the unnecessary wires (pins 1, 2, 3, 6, 7, and 8) for the inverter RJ45 terminal.

6.2 CT / METER CONNECTION

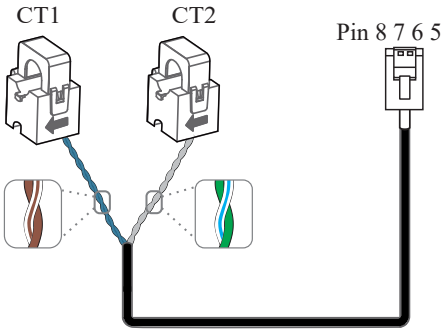
A CT/Meter is applied to monitor electricity usage of all loads, manage grid feeding, and to enable or disable grid backfeed and anti-islanding features.

Pin Definition of Terminals

PIN	1	2	3	4	5	6	7	8
Function Description	/	/	RS485_ A	RS485_ B	CT2-	CT2+	CT1+	CT1-

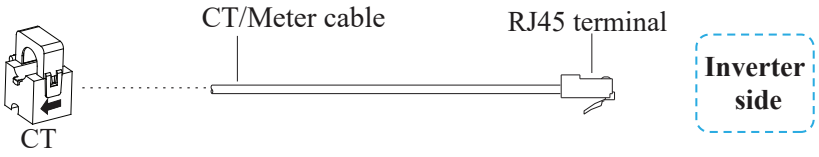


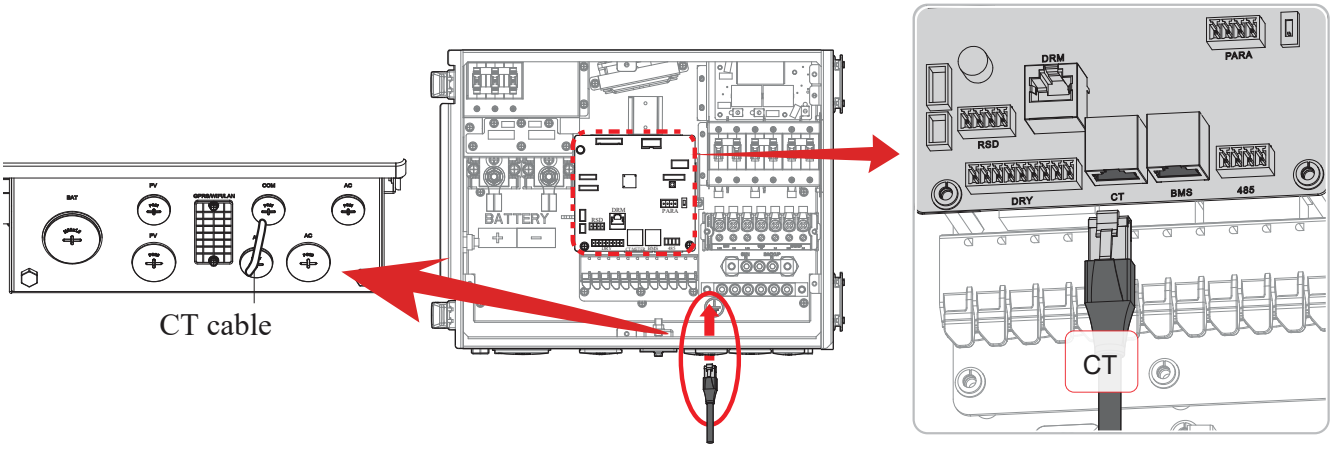
CT Connection



RJ45	RJ45 Pinout Color	CT Cable Color
Pin5(CT2-)	White-Blue	White
Pin6(CT2+)	Green	
Pin7(CT1+)	White-Brown	Blue
Pin8(CT1-)	Brown	

CT Communication Cable Connection Steps

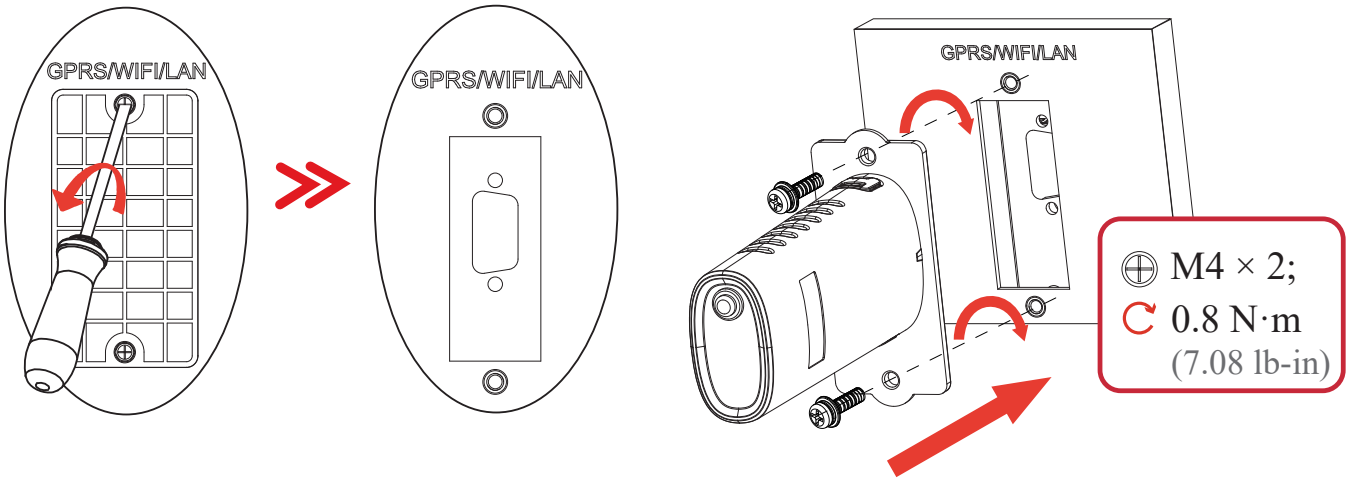




1. Lead the CT cable through the COM port.
2. Insert the RJ45 terminal into the CT port.

6.3 WIFI / BLUETOOTH MODULE CONNECTION

A CTis applied to monitor electricity usage of all loads, manage grid feeding, and to enable or disable grid backfeed and anti-islanding features.

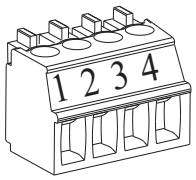


1. Unscrew and remove the cover.
2. Install and secure the module.

6.4 RAPID SHUT DOWN (RSD) CONNECTION

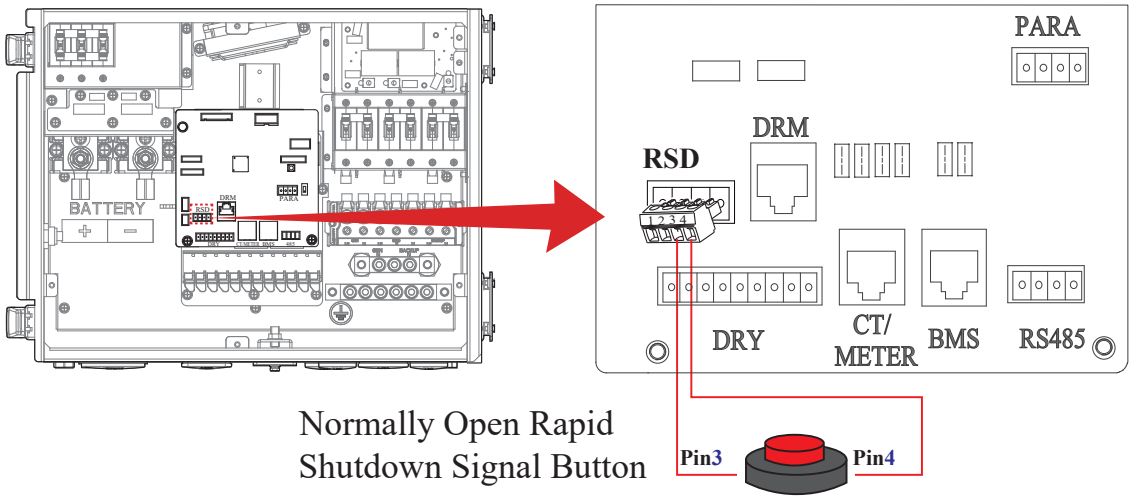
A rapid shutdown connection may be required by local electrical codes; however, activating it will turn OFF the inverter and disable the home backup load.

Pin Definition of Terminals

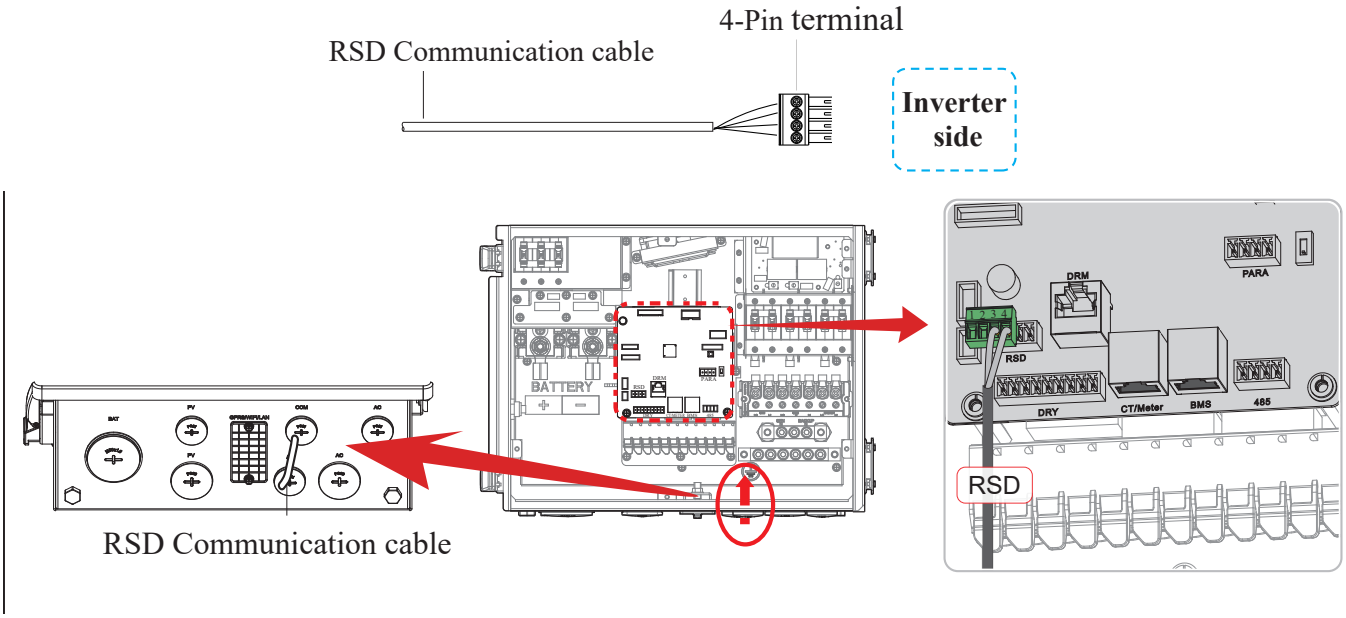


PIN	3	4
Function Description	Emergency Stop Signal Button	

Emergency Stop Signal



RSD Connection Steps



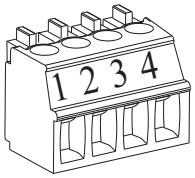
1. Lead the RSD cable through the COM port.
2. Insert the RSD terminal into the RSD port.

6.5 PARALLEL COMMUNICATION

⚠ WARNING!

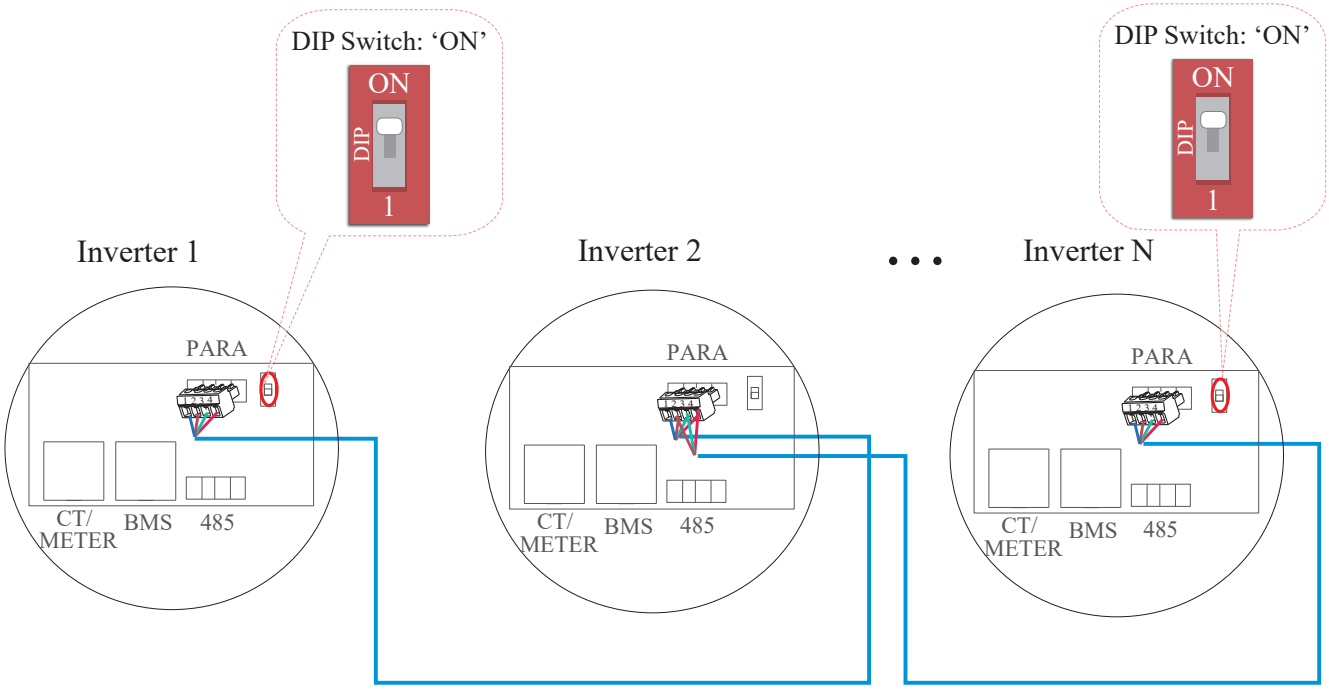
- **Contact Customer Support before connecting any inverters in parallel.**

Pin Definition of Terminals



PIN	1	2	3	4
Function Description	GND_S	PARA_SYNC	CAN_L	CAN_H

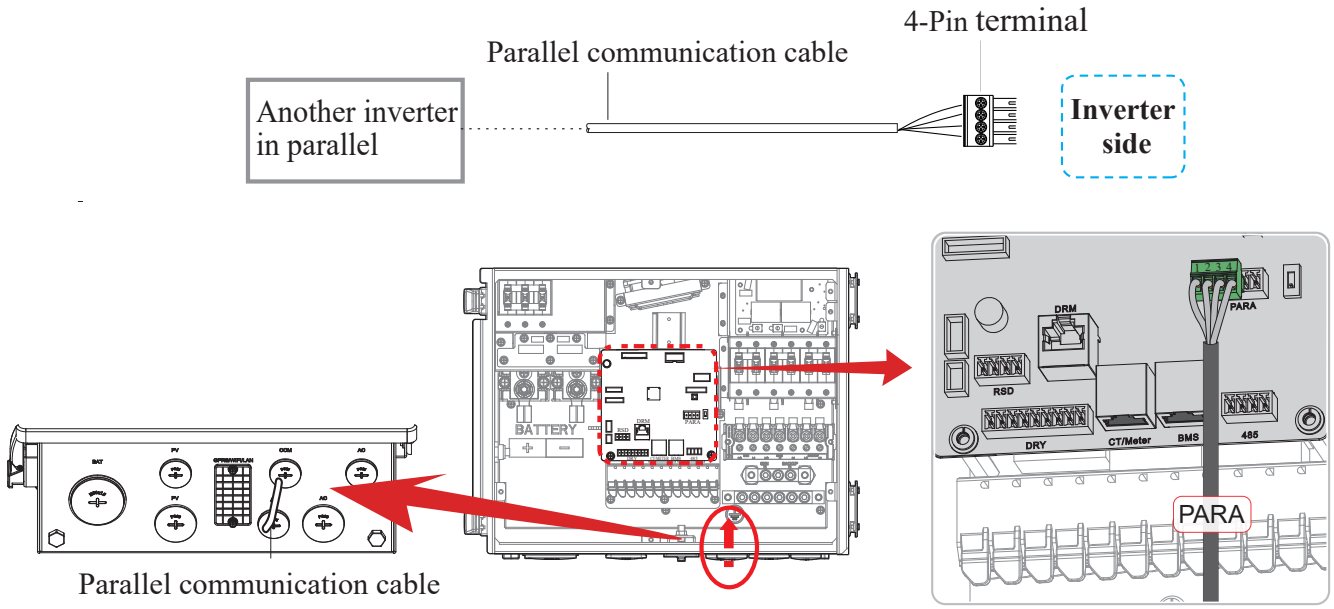
Parallel Communication Connection Overview



Inverter 1	Inverter 2	•••	Inverter N
Pin4 (CAN_H)	Pin4 (CAN_H)		Pin4 (CAN_H)
Pin3 (CAN_L)	Pin3 (CAN_L)		Pin3 (CAN_L)
Pin2 (PARA_SYNC)	Pin2 (PARA_SYNC)		Pin2 (PARA_SYNC)
Pin1 (GND_S)	Pin1 (GND_S)		Pin1 (GND_S)

- When operating in parallel connection mode, it is mandatory to turn the matched resistance switch on for Inverter 1 and Inverter N (the first and last inverters in the communication chain).

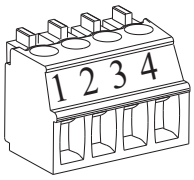
■ Parallel Communication Connection Steps



6.6 RS485 CONNECTION

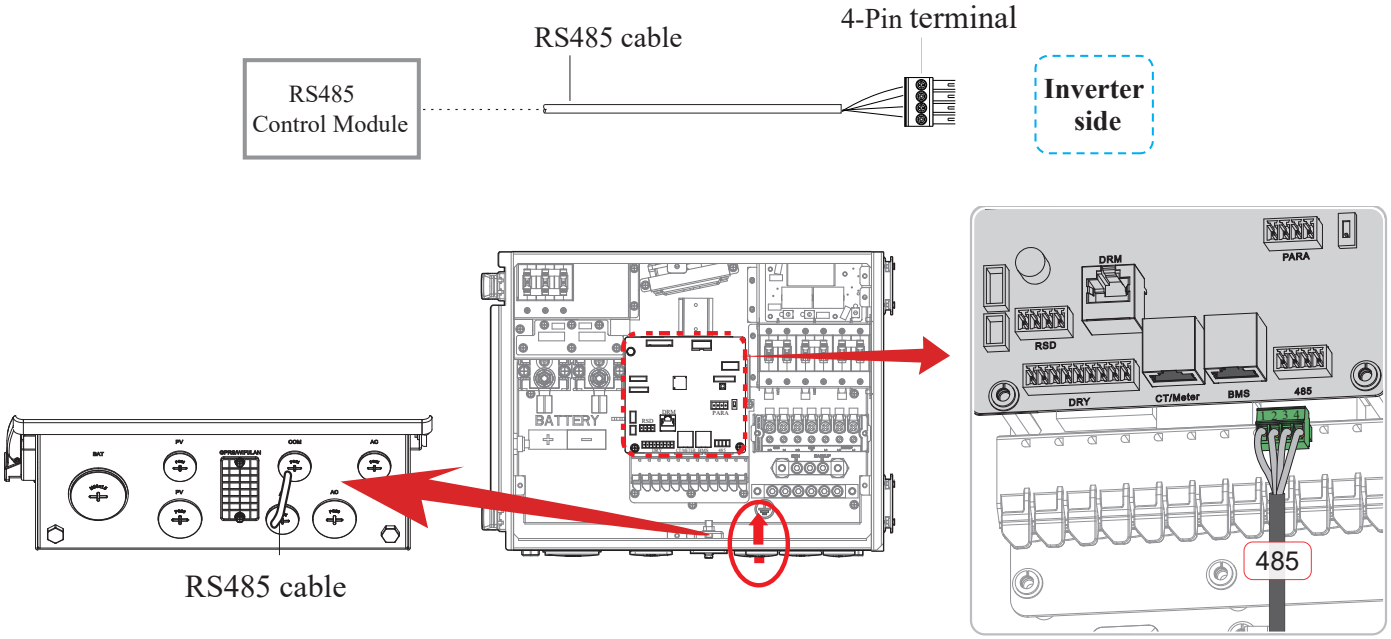
RS485 is used to directly communicate with the Inverter using smart devices such as a Solar Assistant (not included).

Pin Definition of Terminals



PIN	1	2	3	4
Function Description	RS485_A	RS485_B	PE	PE

RS485 Communication Cable Connection Steps



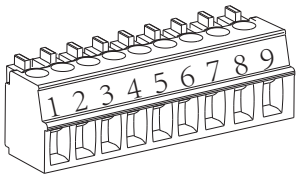
1. Lead the RS485 cable through the COM port.
2. Insert the RS485 4-pin terminal into the RS485 port.

6.7 NTC / RMO / DRY CONNECTIONS

The 9-Pin Connector is used for 2-Wire Generator Control, External Temperature Sensors, Remote Off Control, and DI/DO Control.

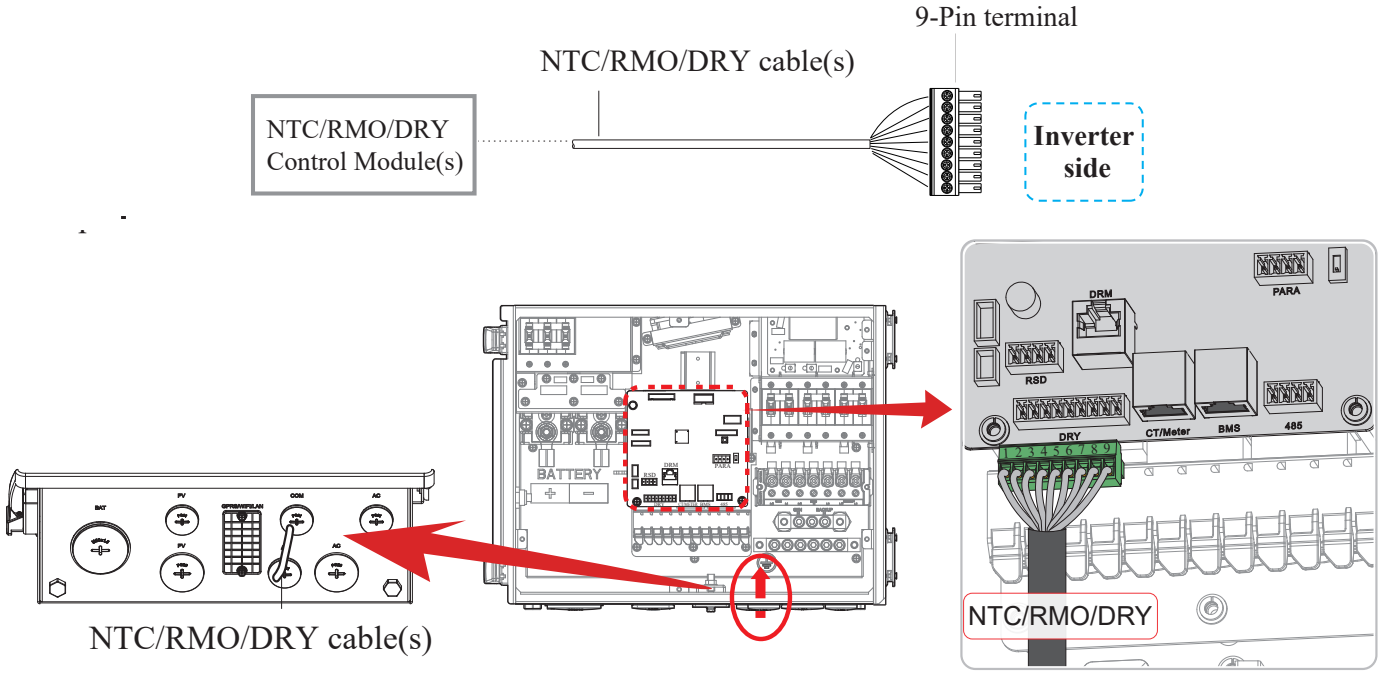
Pin Definition of Terminals

Pin 123456789



PIN	Function Description
1	GEN Control
2	GEN Control
3	NC1 (Normal Close)
4	NO2 (Normal Open)
5	N2
6	NC2 (Normal Close)
7	REMO OFF
8	GND S (NTC BAT)
9	NTC BAT+

NTC / RMO / DRY Communication Cable Connection Steps



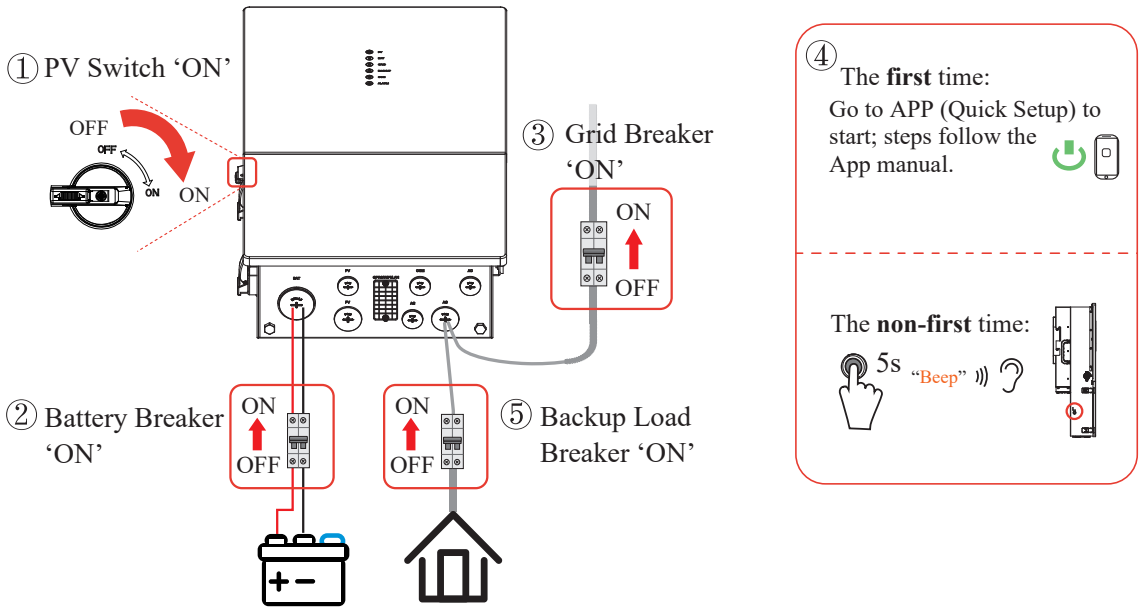
1. Lead the NTC / RMO / DRY cable through the COM port.
2. Insert the 9-pin terminal into the DRY port.

7. STARTUP / SHUTDOWN PROCEDURE

7.1 STARTUP PROCEDURE

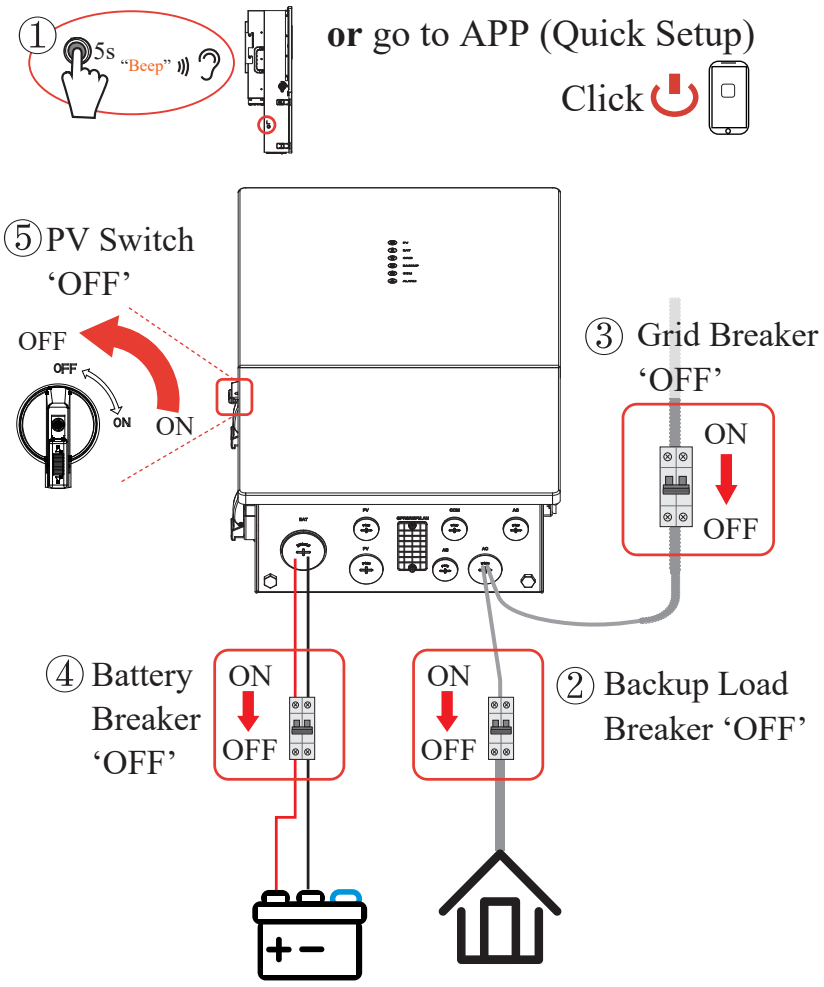
Before starting, ensure the installation is secure, the system is grounded, and all AC, battery, and PV connections are correct. Verify that parameters match the following requirements:

- AC Frequency: 60 Hz
- PV Voltage: 70 V to 540 V
- Battery Voltage: 40 V to 64 V
- Grid AC Voltage: 120/240 V (Split phase) / 208 V (2/3 phase).



1. Turn ON the PV Switch.
2. Turn ON the DC breaker at the BATTERY side and Inverter side.
3. Hold the ON/OFF button on the side of the inverter for 5 seconds.
4. Connect to the App via Bluetooth.
5. Do NOT proceed to the next step until the proper setting has been confirmed. For APP settings, please refer to Section 12, APP CONTROL.
6. Hold the ON/OFF button on the inverter for 5 seconds to restart the system.
7. Turn ON the AC breaker at the GRID side.
8. Turn ON the AC breaker at the BACKUP side.

7.2 SHUTDOWN PROCEDURE



1. Connect to the App via Bluetooth and click "Power OFF".
   - Alternatively: Hold the ON/OFF button on the side of the inverter for 5 seconds, until you hear the beep.
2. Turn OFF the AC breaker at the BACKUP side.
3. Turn OFF the AC breaker at the GRID side.
4. Turn OFF the DC breaker at the BATTERY side.
5. Turn OFF the PV Switches on the PV Combiner box, and the Generator side.
6. CAUTION: All wire terminals on the inverter may still be live and pose a hazard. Before performing any wiring or maintenance, review the single-line diagram and ensure all disconnecting means are turned off.
7. Wait at least 5 minutes before touching any cables to allow the system to discharge.

8. COMMISSIONING PROCEDURE

Fully commissioning the system is essential to prevent fire, electric shock, or equipment damage. Ensure your system is commissioned by a certified electrician.

8.1 INSPECTION

Qualified personnel must inspect the following before commissioning:

- System is installed according to the manual with sufficient space for ventilation and maintenance.
- All terminals and cables are in good condition.
- No foreign objects are left inside or on the inverter.
- PV panels, battery pack, and the grid are operating normally

8.2 COMMISIONING PROCEDURE

Qualified personnel must inspect the following before commissioning:

- Power on the system using the Startup Procedure from section 7.1.
- Configure the parameters on the App according to user requirements.
- Complete the commissioning process.

9. OPERATION MODES

9.1 BACK-UP MODE

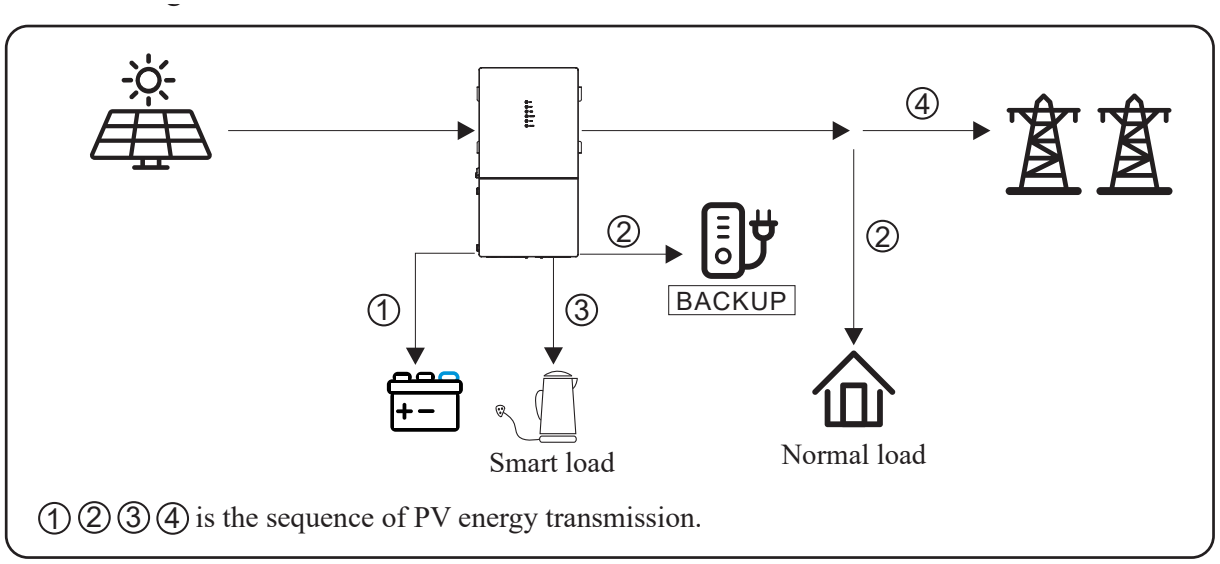
⚠ WARNING!

- **If powering inductive or capacitive loads, their power rating should be less than 50% of the BACKUP output power range to ensure system stability.**

Priority: Battery > Load > Grid

Focused on reliability, this mode prioritizes charging the battery above all else (even before powering loads) to ensure you have a full reserve ready for a power outage.

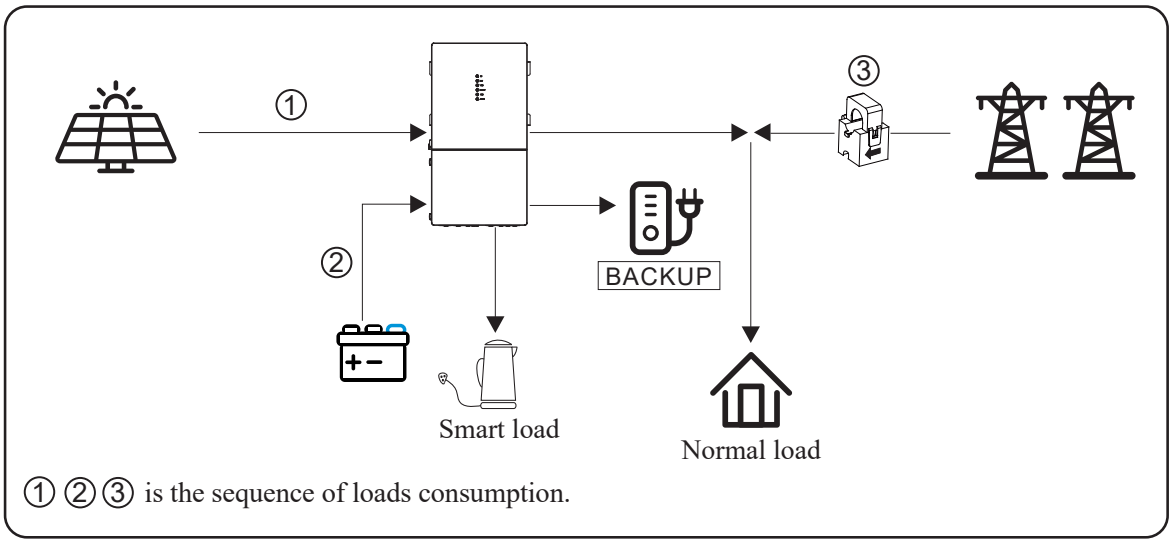
Scenario A: Surplus PV Energy



①②③④ is the sequence of PV energy transmission.

- PV charges the battery first. It then powers the loads, and any excess is fed into the grid.

Scenario B: Limited / No PV Energy



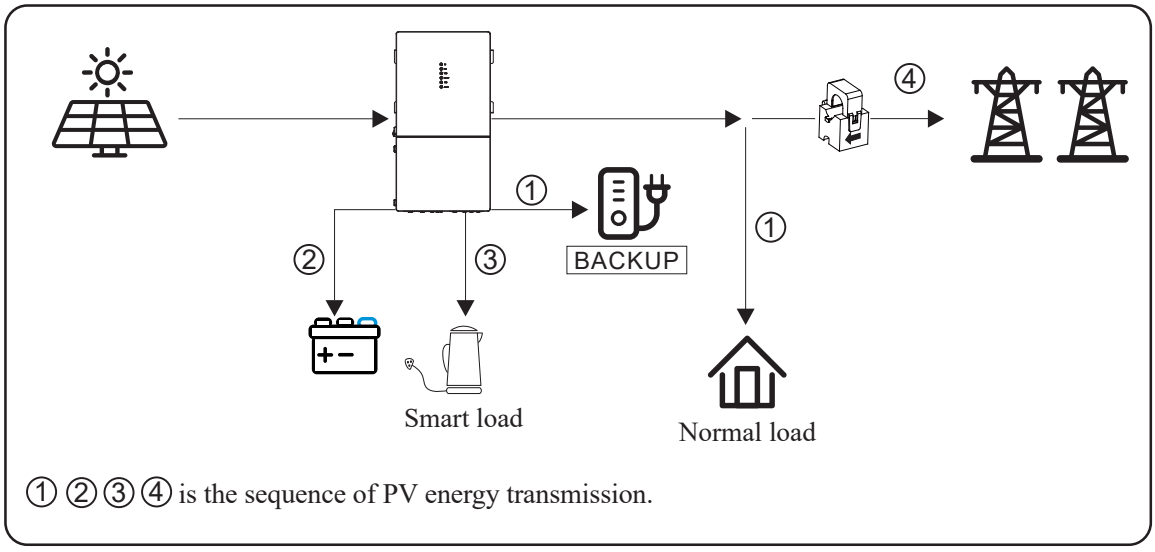
- AC CHARGING DISABLED: PV prioritizes charging the battery. The grid powers the loads directly.
- AC CHARGING ENABLED: If PV energy is insufficient to charge the battery, the grid supplements the charging process. Meanwhile, the grid also powers the loads.

9.2 OPTIONAL SELF-CONSUMPTION MODE

Priority: Load > Battery > Grid

Designed to maximize your own solar usage, this mode prioritizes powering your home first, then charging the battery, and only sends energy to the grid if there is still excess left over.

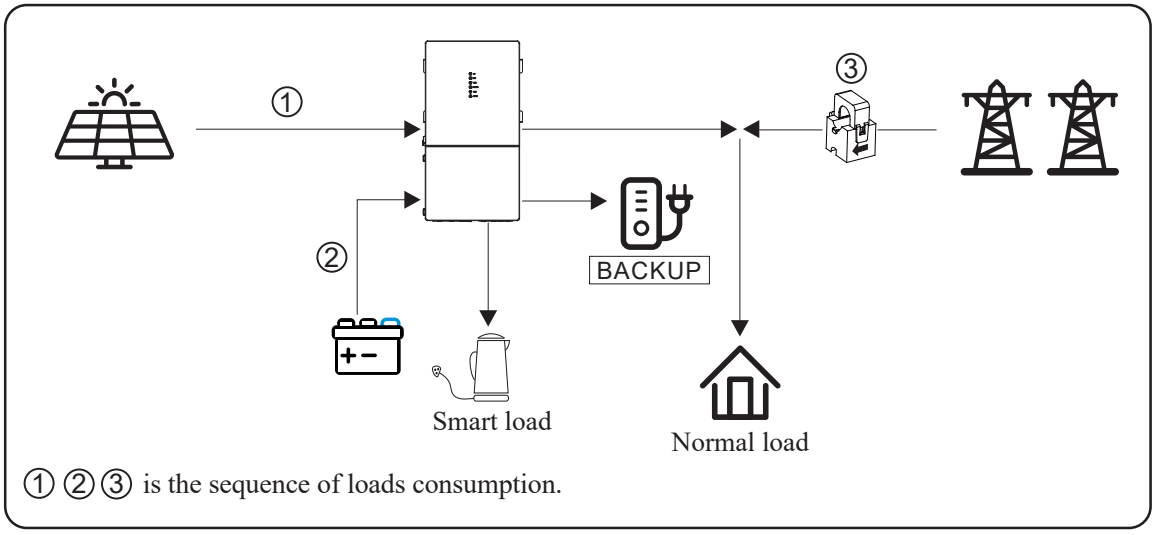
Scenario A: Surplus PV Energy



①②③④ is the sequence of PV energy transmission.

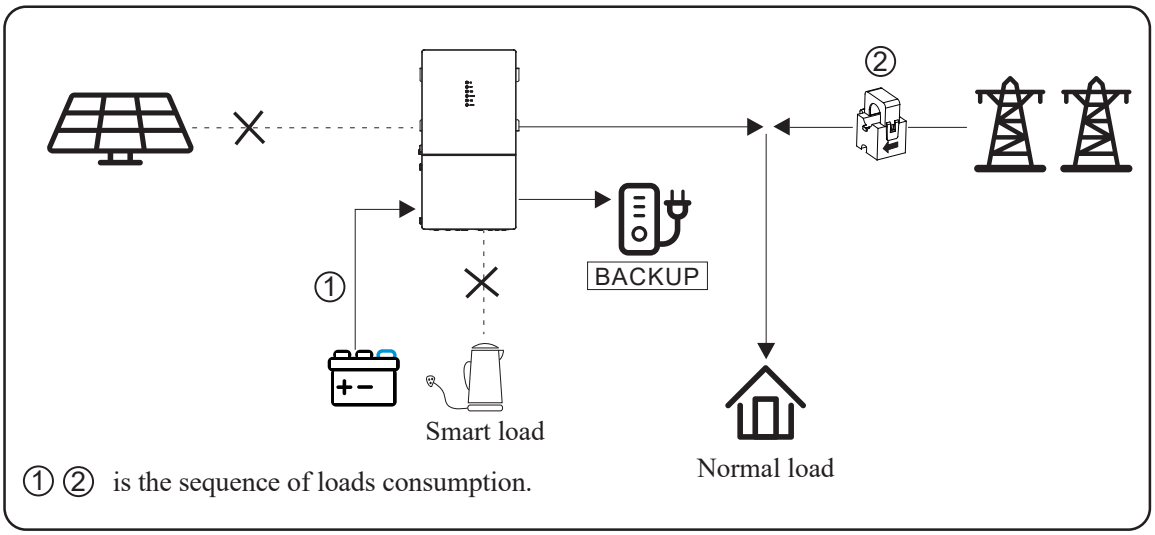
- When PV energy is sufficient, it first powers the loads.
- Excess energy charges the battery.
- Any remaining energy is fed into the grid.

Scenario B: Limited PV Energy



- When PV energy is insufficient to power the loads, all PV energy is consumed by the loads.
- The battery discharges to supply the missing power.
- If the battery is insufficient, the grid supplies the remaining requirement.

Scenario C: No PV Input



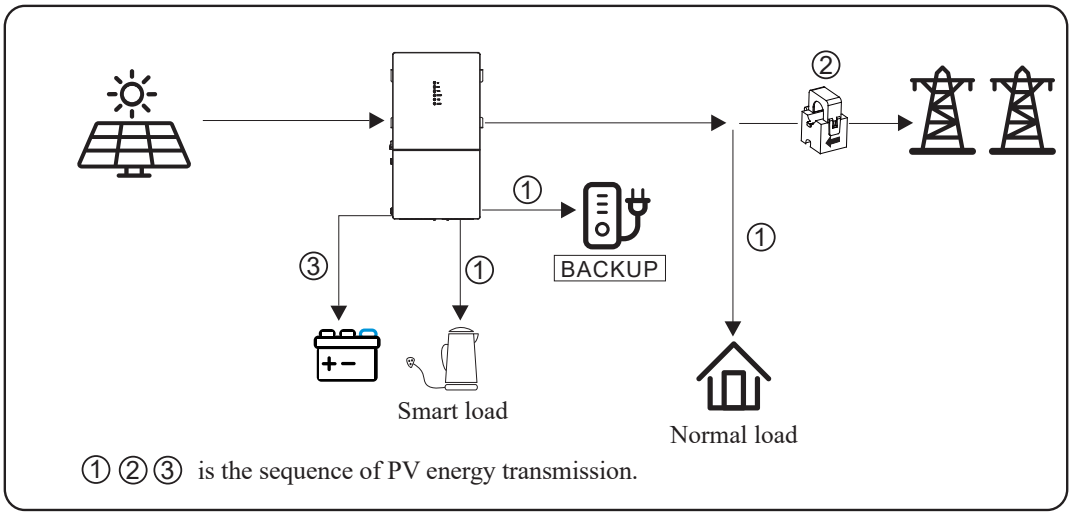
- When there is no PV input (e.g., at night or during cloudy/rainy days), the inverter discharges the battery to power home loads.
- If the battery cannot meet the demand, the grid supplies the loads.

9.3 OPTIONAL FEED-IN PRIORITY MODE

Priority: Load > Grid > Battery

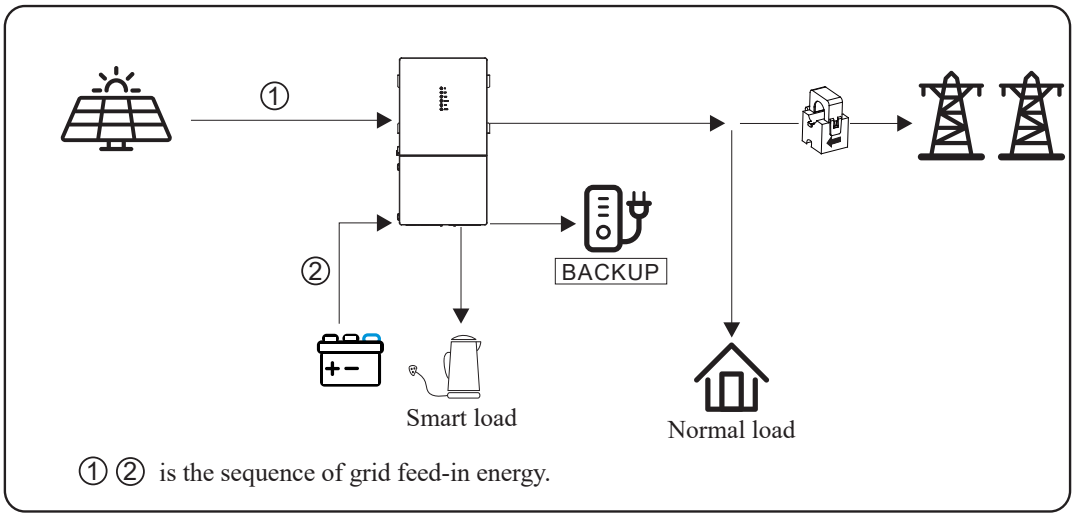
Best for selling power back to the utility, this mode powers your home first but sends any excess solar and battery energy to the grid immediately, only charging the battery as a last priority. The inverter will feed a set amount of power (watts) into the grid as long as there is energy within the system to sell.

Scenario A: Surplus PV Energy



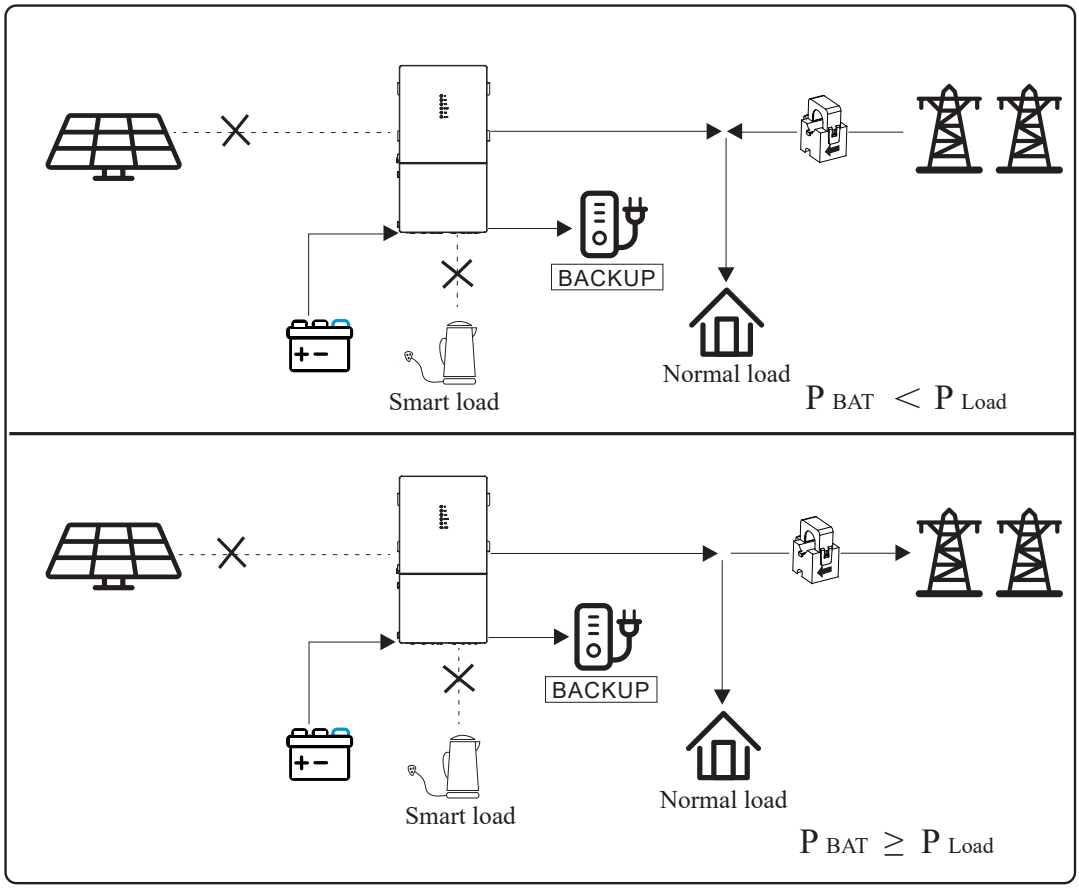
- PV energy first powers the loads.
- Excess PV power is fed into the grid.
- If PV energy remains after powering loads and feeding the grid, it charges the battery.

Scenario B: Limited PV Energy



- If PV energy is limited and cannot meet the grid feed-in requirements, the battery will discharge to meet the demand.

Scenario C: No PV Input



- If there is no PV energy, the battery will continue to power the loads AND discharge to the grid according to the power (watts) set by the user.
- If the battery is not enough to power the loads and sell power to the grid, the inverter will draw energy from the grid to meet the demand.

9.4 OPTIONAL OFF-GRID MODE

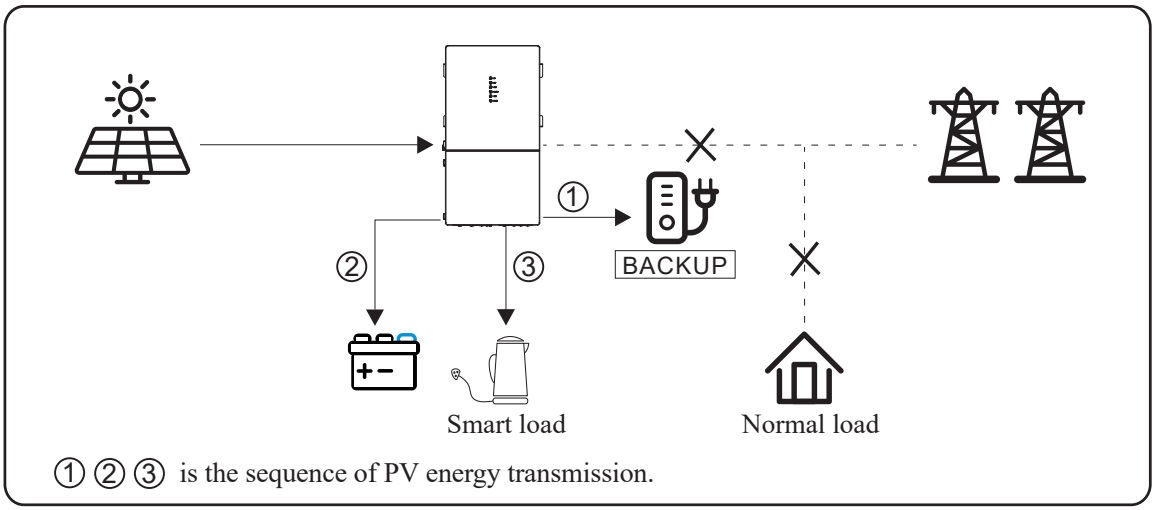
⚠ WARNING!

- **If powering inductive or capacitive loads, their power rating should be less than 50% of the BACKUP output power range to ensure system stability.**

Priority: Power Backup Loads > Charge Battery

Automatically activated during a blackout, this mode disconnects from the utility and uses solar and battery power to run only your essential "critical" appliances.

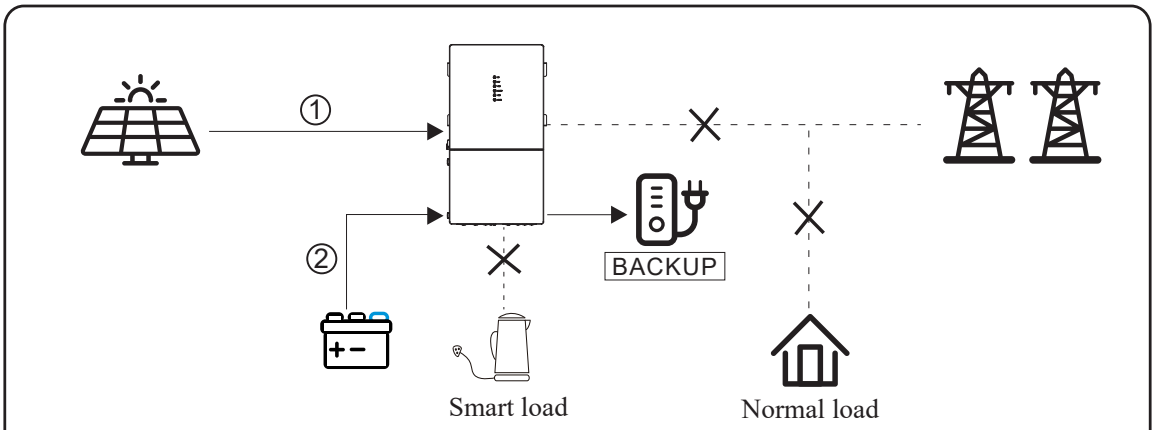
Scenario A: Surplus PV Energy



① ② ③ is the sequence of PV energy transmission.

- PV power first supplies the critical loads, then charges the battery.

Scenario B: Limited / No PV Energy



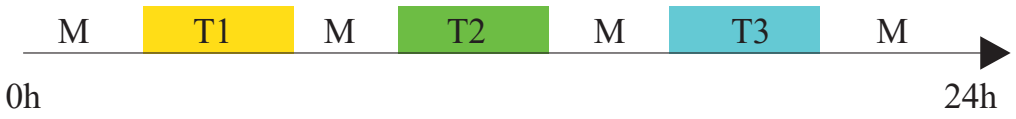
① ② is the sequence of BACKUP load consumption.

- Critical loads are powered by PV first, supplemented by the battery.

10. FORCED CHARGE / DISCHARGE SCHEDULING

Users can configure the inverter to forcibly charge or discharge the battery during specific time periods, regardless of the working mode.

Priority: The forced charge/discharge function has the highest priority.



- You can set up to three specific time periods (T1, T2, T3). During these times, the forced settings override the selected mode (M). Outside these periods, the inverter reverts to the original working mode
- M : Self-consumption Mode/Feed-in Priority Mode/Back-up Mode
- T1: Time period 1 for forced charge/discharge parameter setting
- T2: Time period 2 for forced charge/discharge parameter setting
- T3: Time period 3 for forced charge/discharge parameter setting

11. PANEL INTERFACE

LED Indicator	Status	Description
SOLAR	On	PV Input is normal.
	Blink	PV Input is abnormal.
	Off	PV Input is unavailable.
BATTERY	On	Battery is charging.
	Blink	Slow Blink: Battery is discharging. Fast Blink: Battery is abnormal.
	Off	Battery is unavailable.
GRID	On	Grid is available and normal.
	Blink	Grid is available and abnormal.
	Off	Grid is unavailable.
BACKUP	On	Backup power available.
	Blink	Backup output is abnormal.
	Off	Backup power is unavailable.
COMMS	On	Data is communicating.
	Blink	Data is communicating.
	Off	No data transmission.
ALERT	On	Fault has occured. Inverter will shut down.
	Blink	Alert has occured. Inverter still active.
	Off	No fault.

12. APP CONTROL (SOLARVOLT)

12.1 INTRODUCTION

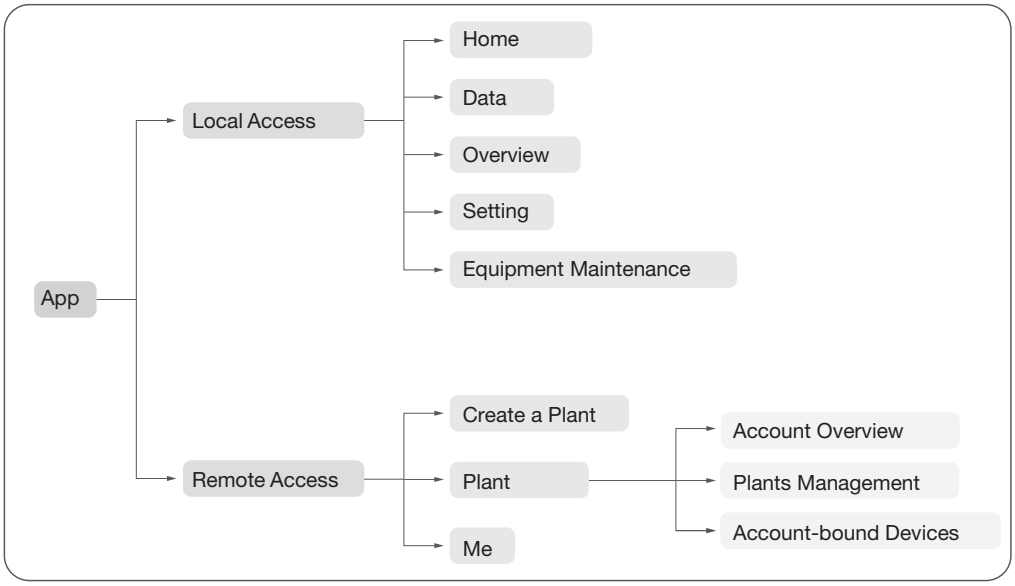
App Architecture

Restart the inverter to ensure all the settings are applied. The critical values would not be able to update during the operation. You can turn it OFF and ON using the App or the round button on the side.

The app supports "Local Access" and "Remote Access".

- Local Access: The app reads data from inverter through Bluetooth connection with Modbus protocol to display and configure inverter parameters.
- Remote Access: The app reads data from cloud server through API and display inverter parameters.

For End User



12.2 DOWNLOADING AND INSTALLING THE APP

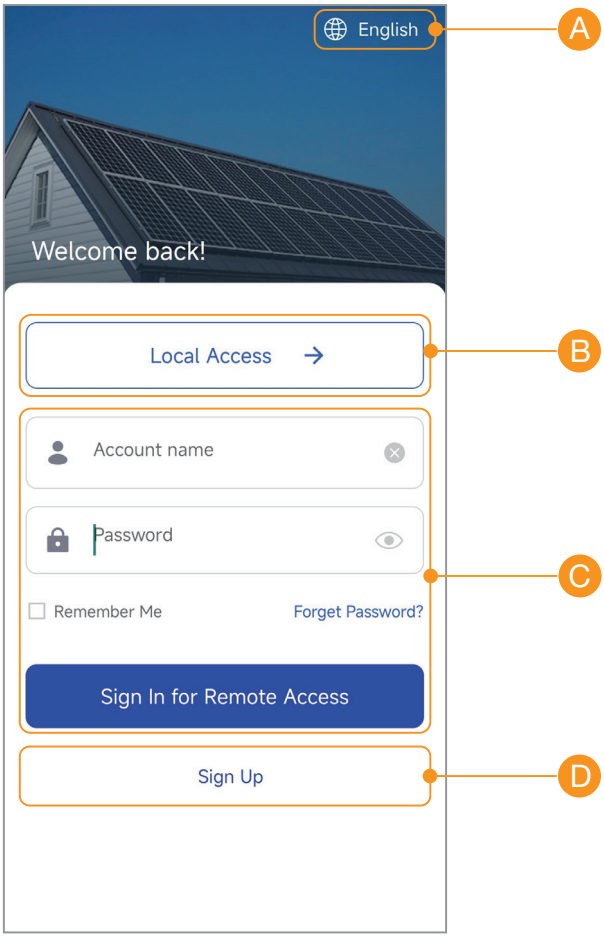
Download the APP by either of the following ways:

- Scan the QR code on the inverter to download and install the app.

- Download and install the app from the App Store or Google Play.

Note:
During the installation of the app, ensure you grant all requested permissions, including access to the device's location, by approving all prompts that appear in the pop-up windows.

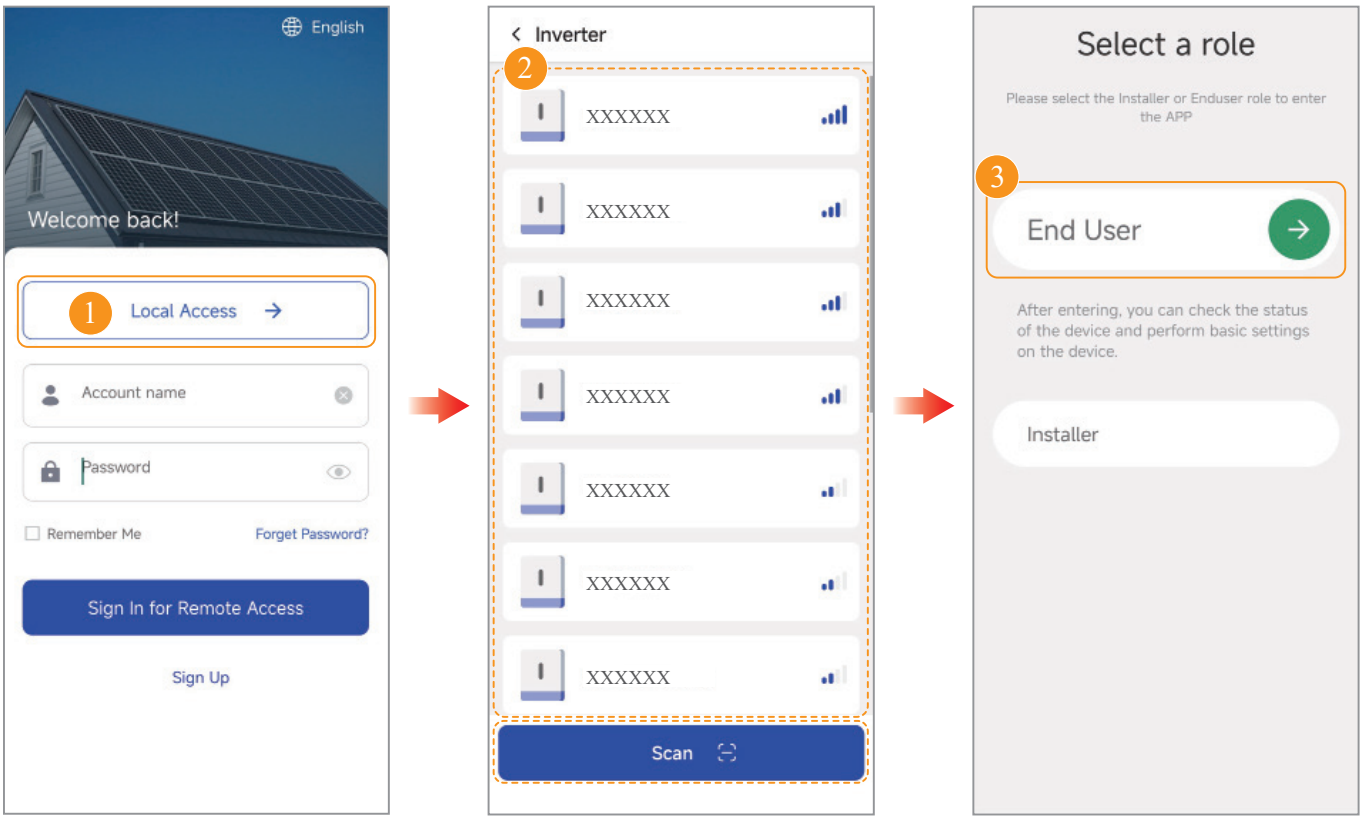
12.3 ACCESS PAGE



Number	Description
A	Switch language.
B	Local Access
C	• Enter account name and password, tap **Sign In for Remote Access** to manage your remote account. • Tick **Remember me** and you don't have to re-type your information on the next visit. • Tap **Forget Password?** to change password.
D	• Tap Sign Up to register a remote account.

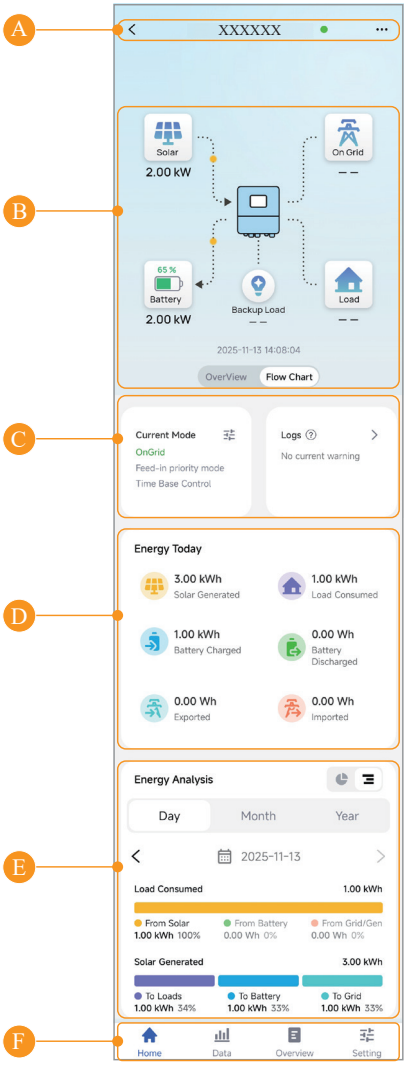
12.4 END USER LOCAL ACCESS

- Step 1: Power on the inverter and enable the Bluetooth on your phone.
- Step 2: Open the app and tap Local Access.
  (See operation 1 in figures below.)
- Step 3: Select your inverter from the list or scan the SN bar code on the inverter. (See operation 2 in figures below.)
- Step 4: Tap End User to enter the Home page.
  (See operation 3 in figures below.)



13. HOME

The Home displays the basic information of the inverter.



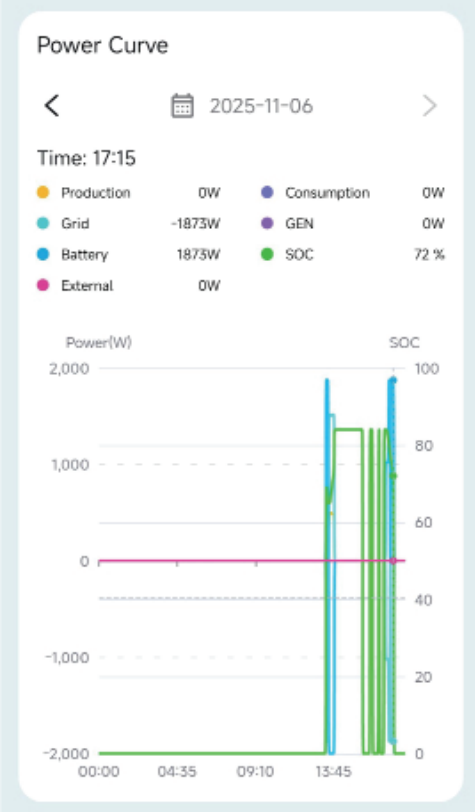
Number	Description
A	Tap ⬚ to return to the previous page. • The serial number and status of the inverter: ● Normal; ● Faulty; ● Standby; ● Offline. • Tap ⬚ to enter Equipment Maintenance page.
B	This area displays energy flow of each parts in the system. Tap the icons for inverter, solar panel, grid, etc. to view the basic information about the inverter, solar panels, grid, and so on.
C	•This area shows the current mode and current alarms of the inverter. •Tap ⬚ to enter inverter page for related settings. •Tap ⬚ to view current alarms and historical alarms.
D	• Tap Sign Up to register a remote account.
E	• This part shows energy analysis of load consumption and solar power generation. • Tap ⬚ to see pie chart.
F	Bottom navigation bar.

13.1 DATA

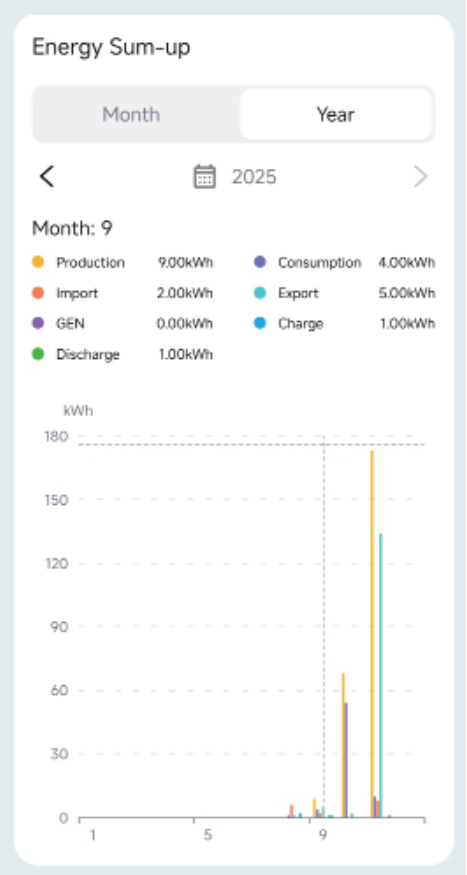
For ESS inverters, you can examine the graphical representation of energy generation or consumption for your home, solar panels, battery and the grid over various timeframes such as daily, monthly or yearly on this page.

You can tap on any point of the graph to obtain the energy value for that specific time and tap the dot icon to hide the curve. Please note that the data curves provided in the illustrations are for example purposes only.

Query Monthly Data



Query Yearly Data

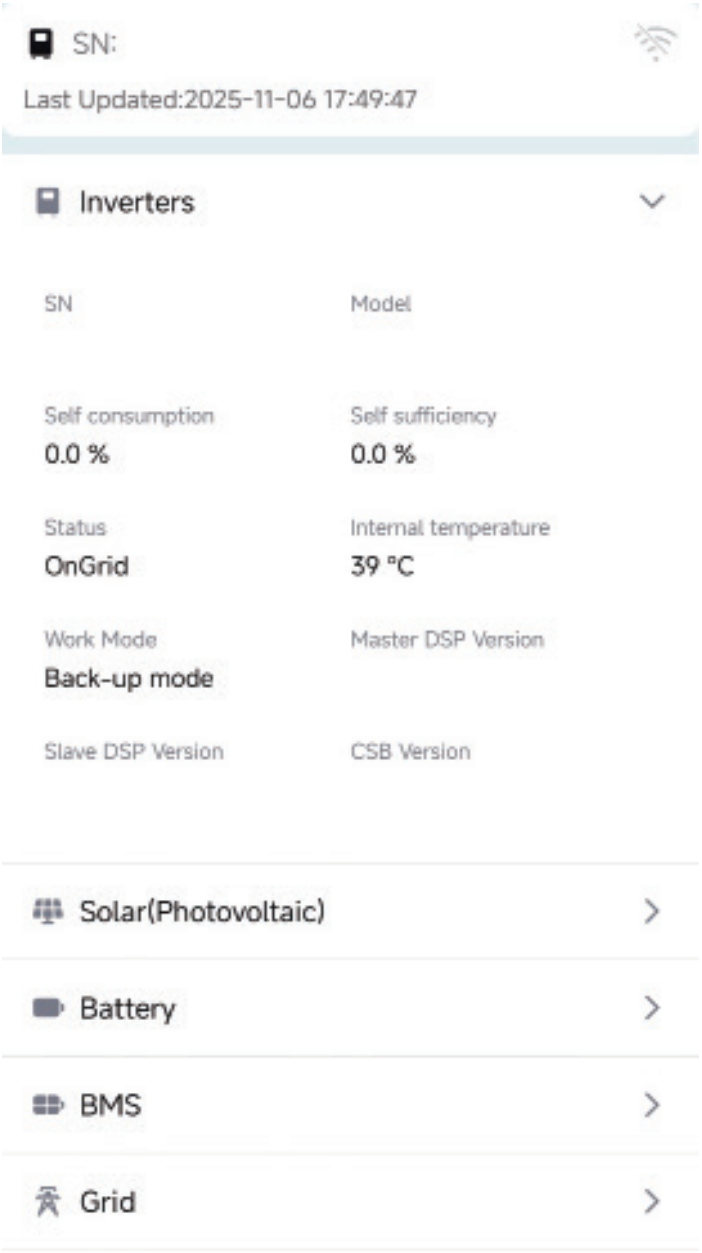


Icon	Description
Production	PV generation capacity
Concumption	Load consumption capacity
Import	Grid capacity
Export	Feed-in grid capacity
GEN	GEN capacity
Charge	Battery charge capacity
Discharge	Battery discharge capacity

13.2 OVERVIEW

For ESS inverters, you can view the basic information about the inverter, solar panels, battery, BMS, grid, backup load, normal load and so on.

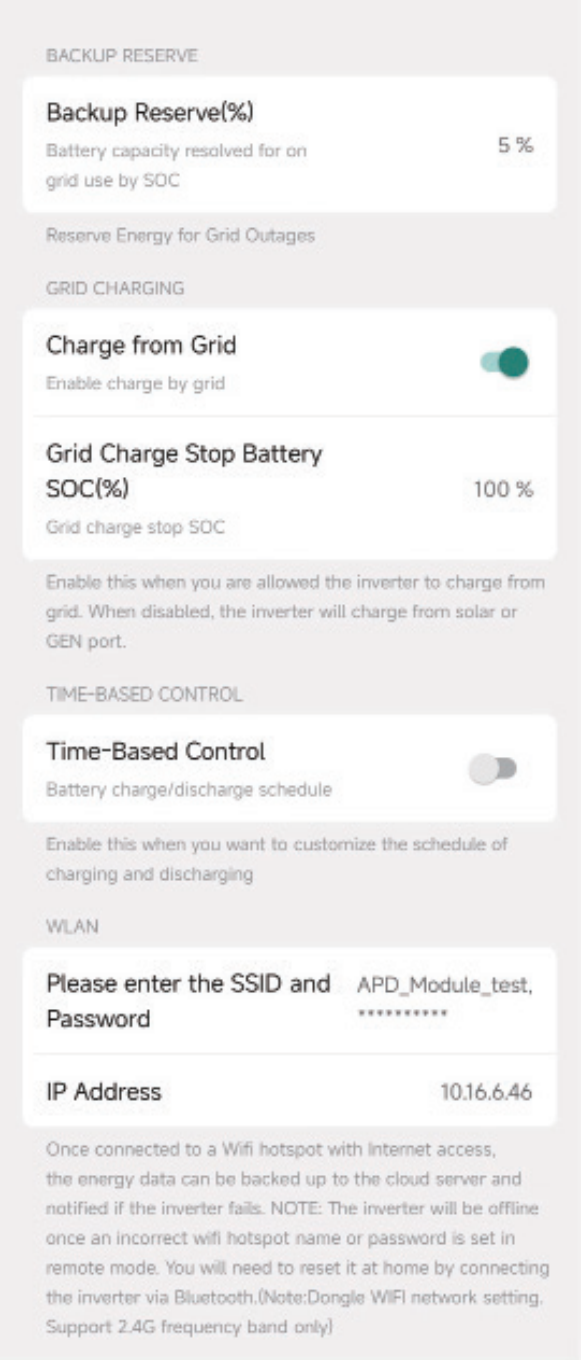
For grid-tied solar inverters, you can view the basic information ablout the inverter, solar panels, grid and so on.



13.3 SETTINGS

For the BESS administrator,, you can configure some basic parameters including backup reserve, grid charging, time-based control and WLAN on this page.

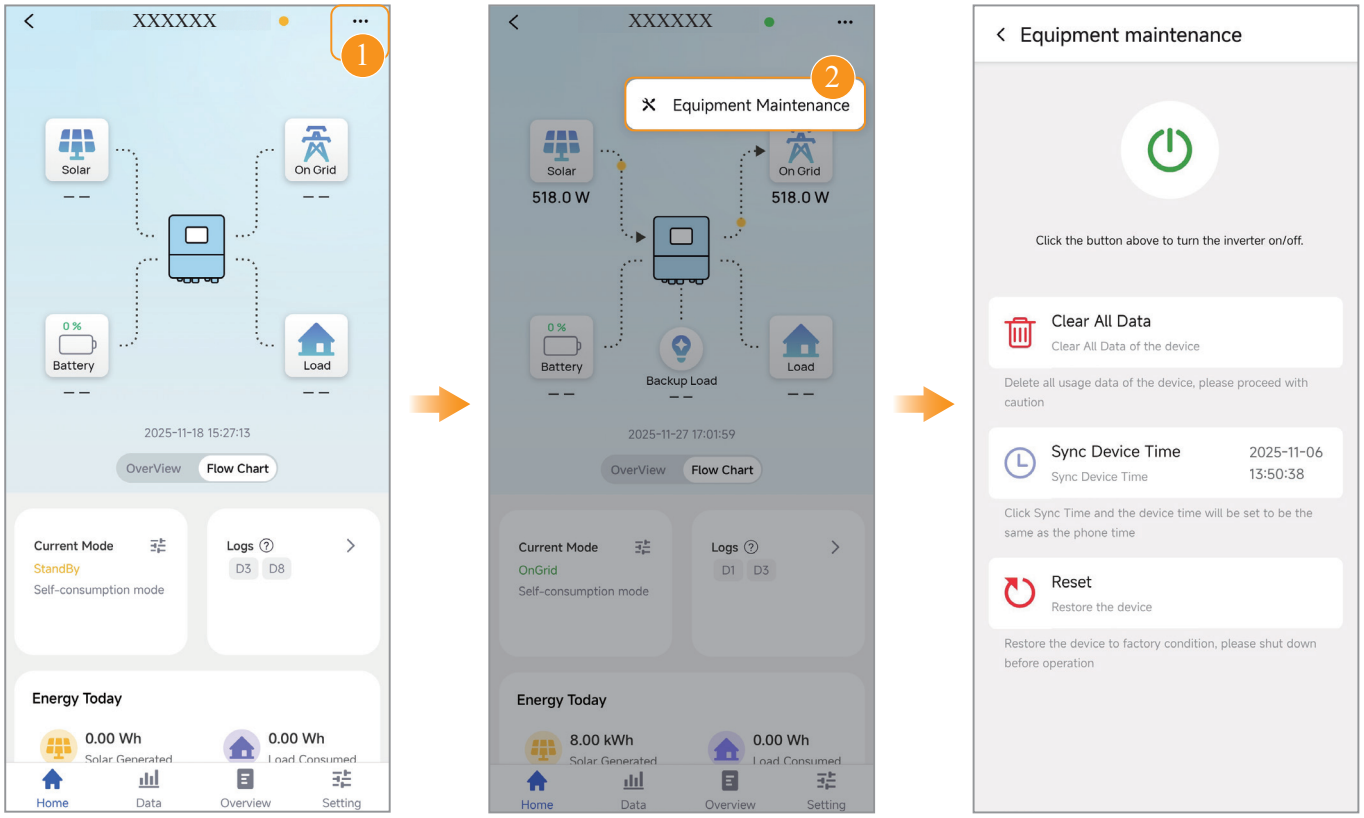
Set your parameters as below to have the optimal using expereince.



13.4 EQUIPMENT MAINTENANCE

Tap the '... ' icon at the upper right corner of the bottom navigation bar, and then tap the Equipment Maintenance to enter the page.

On this page, you can turn on/off the inverter, clear all data, sync device time and restore the device to factory condition.



NOTICE. Turning the inverter ON/OFF may cause the inverter output to disconnect.

14. END USER REMOTE ACCESS

Step 1: Power on the inverter and open the app.

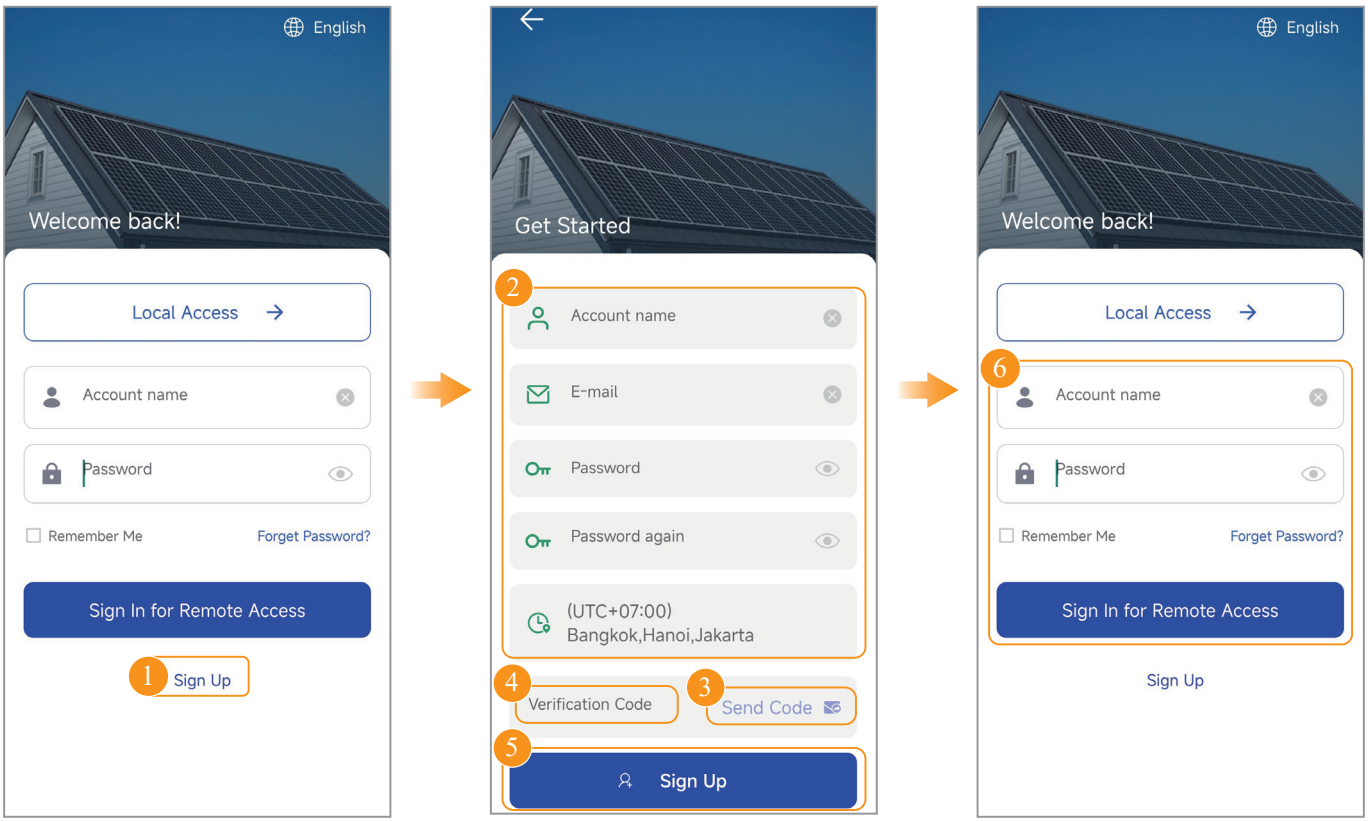
Step 2: Tap the Sign up.

Step 3: Sign up for a new end user remote account.

(See operation 1-5 in figures below. You can skip this step if you already have a remote account.)

Step 4: Enter your account name and password, then sign in for remote access.

(See operation 6 in figures below.)



14.1 END USER REMOTE ACCESS

NOTE:

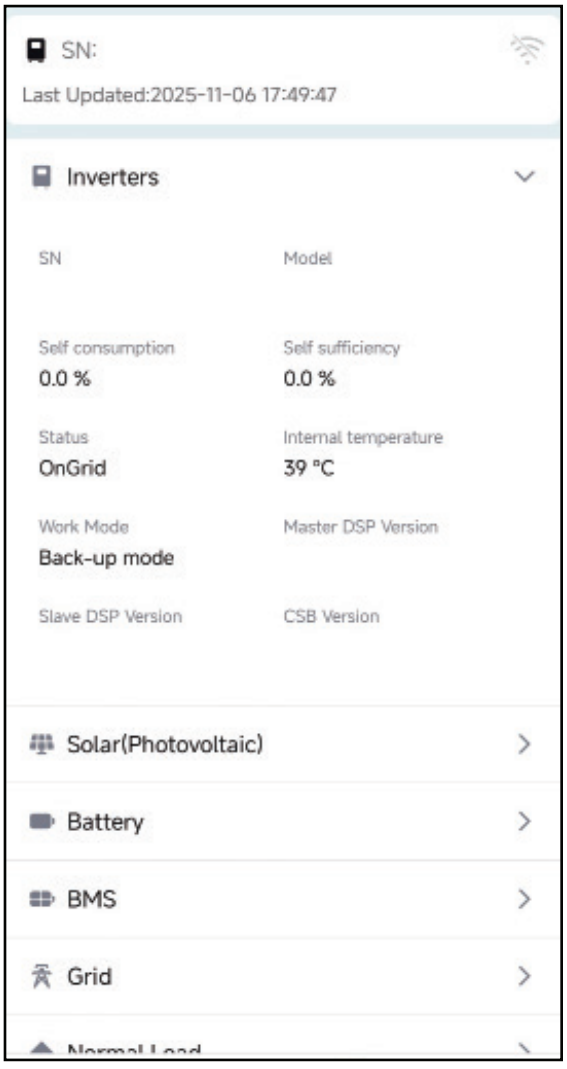
Before creating a plant, it is necessary to select Enduser role for local access to connect the Inverter to the Router:

(1) Power on the inverter and enable the Bluetooth on your phone.
(2) Open the app and tap Local Access.
(3) Select your inverter from the list or scan the SN bar code on the inverter.
(4) Tap End User to enter the Home page.
(5) Tap the Setting.
(6) Connect the inverter to the router by entering the Wi-Fi SSID and password.

For more details, refer to End User Local Access and Setting.

Suggestions for Wi-Fi Router

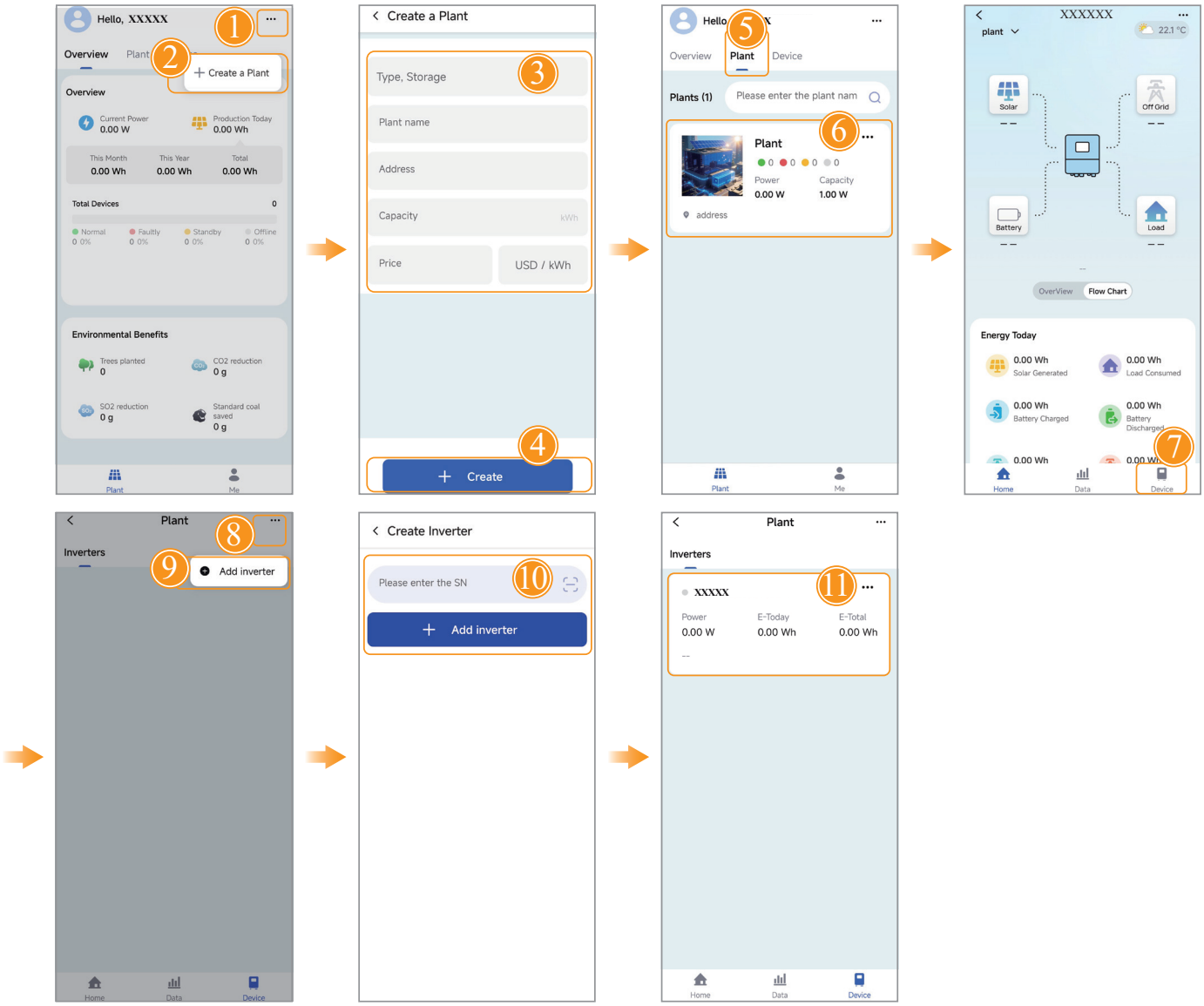
- It is recommended to use the Wi-Fi router within 15m, and there is no obstacle between the inverter and the router.
- After installer local access, tap Overview to check the signal strength. Make sure that the Wi-Fi signal strength is more than three bars.
- When the signal strength is less than three bars, choose one of the following three ways to improve the signal:
  - Move the router closer to the inverter.
  - Adjust the height of the router to reduce obstacles.
  - Add a repeater to improve the signal strength.



Setting steps for Creating a Plant and Binding Inverter

Step 1: Tap "..." > Create a Plant on the Home page, then enter plant information to add plants to your account.

Step 2: Select your power station to add inverters and view inverter status.



14.2 PLANT

The Plant displays the basic information of the plants added in the account.

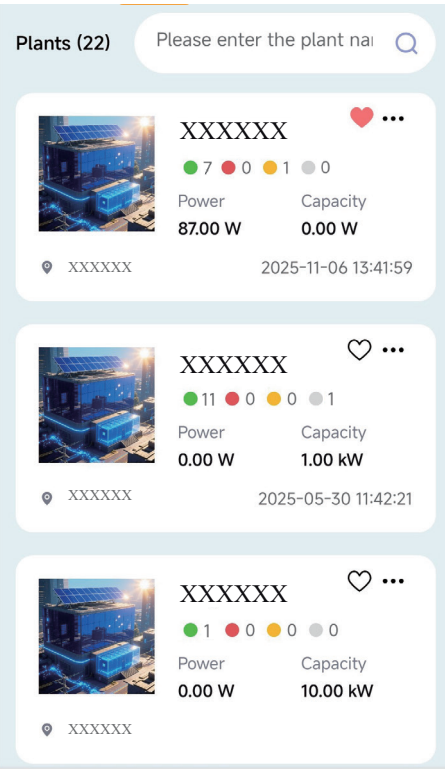
14.3 ACCOUNT OVERVIEW

The Plant displays the basic information of the plants added in the account.

Number	Description
A	Tap the area to modify your account information and sign out.
B	Tap the '...' to create a plant.
C	Tap the corresponding title bar to display the overview, plant, or device items.
D	All plants added in the account: • Current power. • Today's, Month's, Year's and Total PV energy generation. • Number of Total devices and the status of the each device: Normal; Faulty; Standby; Offline
E	Environmental benefits.
F	Bottom navigation bar: • Plant: Set/delete the Plant • Me: Modify your account information and sign out.

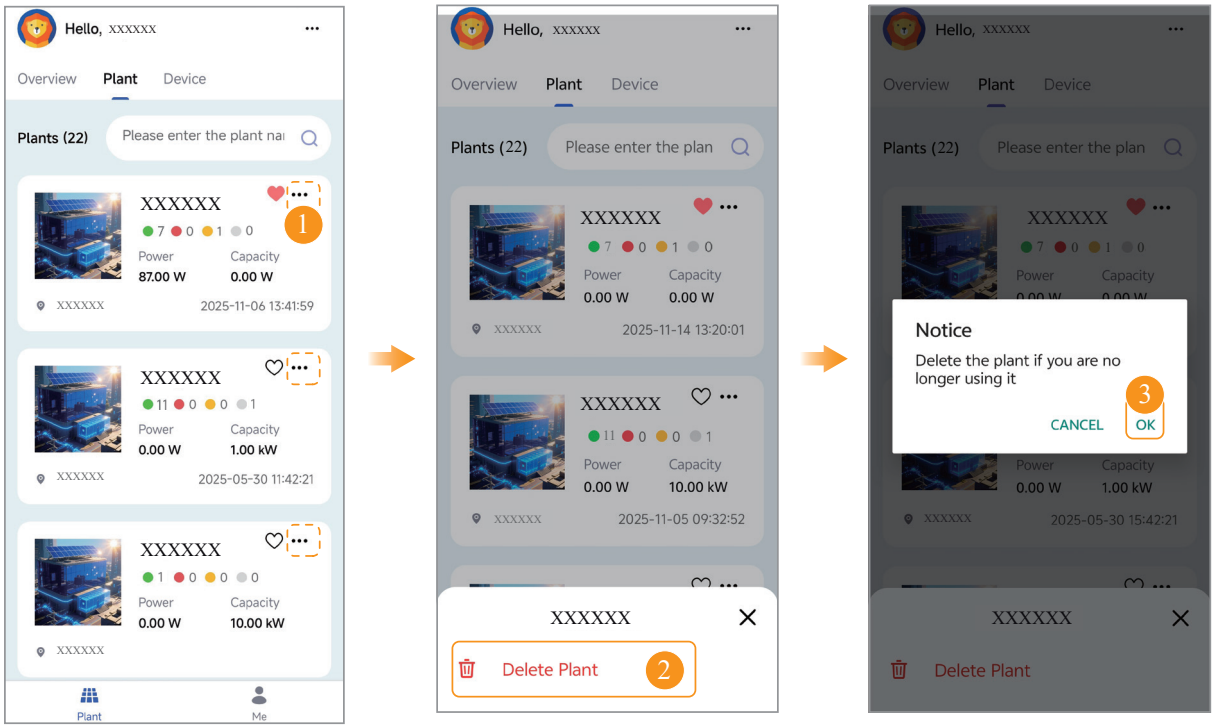
14.4 PLANT MANAGEMENT

The Plant displays the basic information of the plants added in the account.



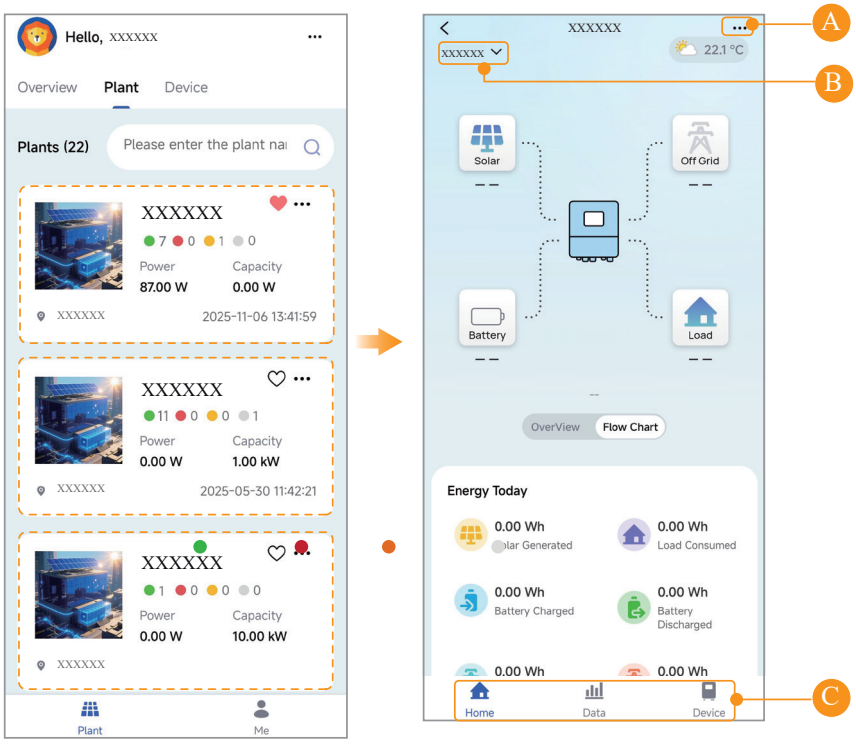
14.5 DELETE THE PLANT

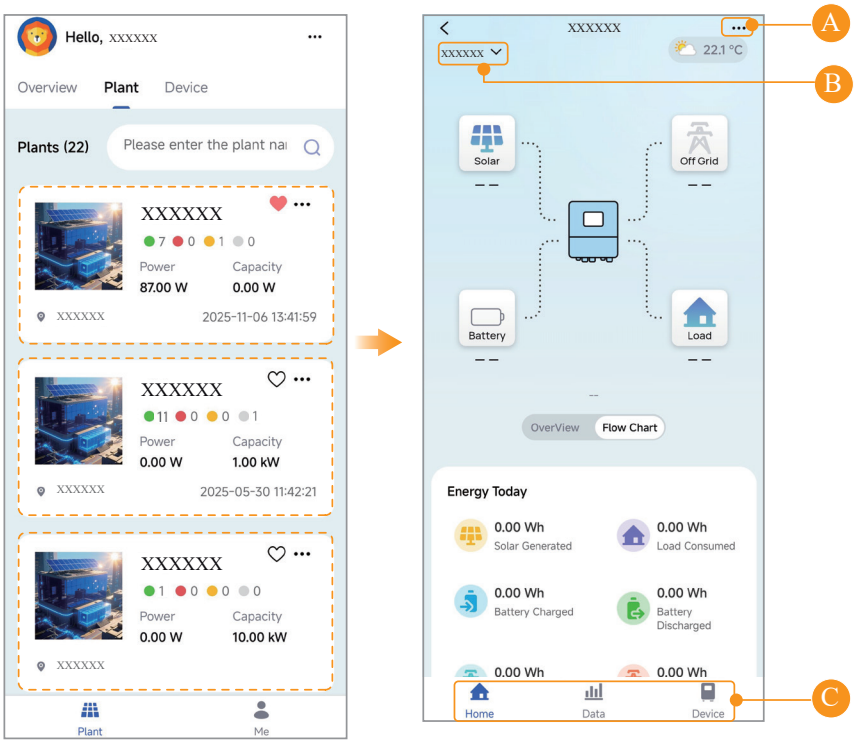
You can delete the plant when it is no longer in use.



14.6 PLANT OF THE HOME PAGE

Select the plant Home page to display.

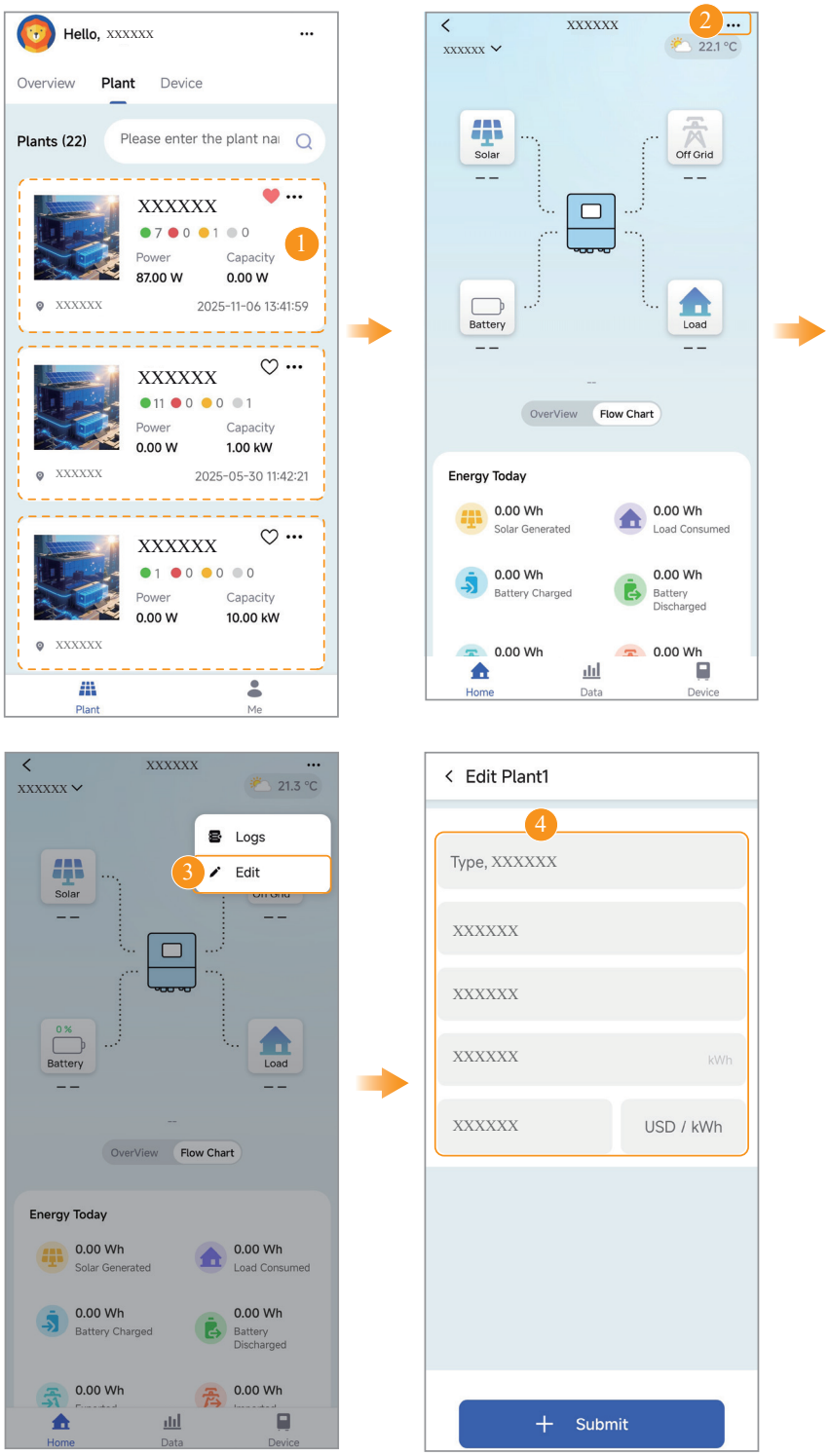




Number	Description
A	Tap the '...' to view the warning logs of the inverter or edit the basic information of the plant.
B	Tap the dropdown list to select another device.
C	Bottom navigation bar: • Home: Set/edit the plant, energy today, energy analysis, environmental benefits • Data: Graphical representation of energy generation or consumption. • Device: View or configure information or parameters for the inverter, battery, grid, etc.

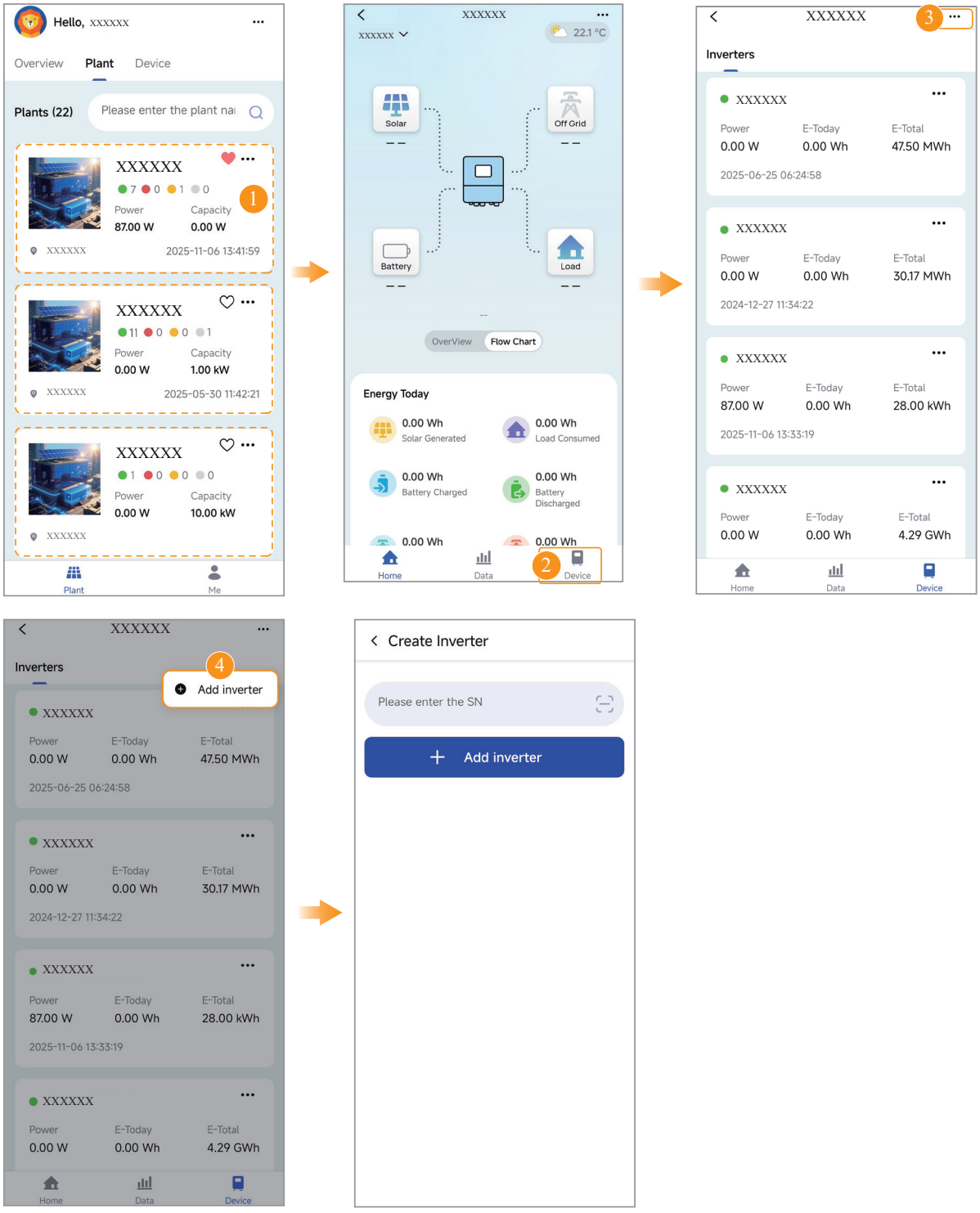
14.7 EDIT PLANT

On this page, you can edit the basic information of the plant.



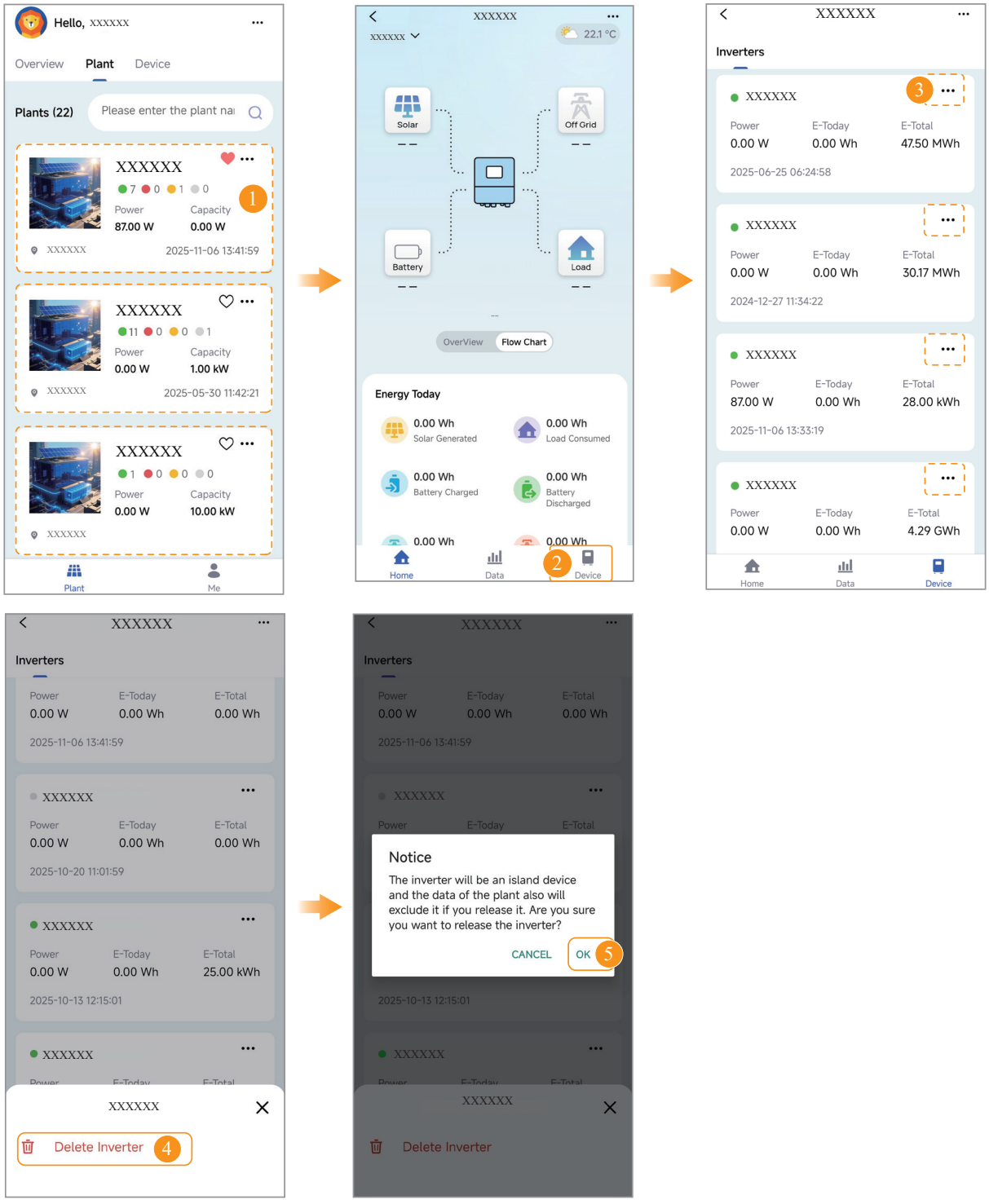
14.8 ADD MORE INVERTERS IN THE PLANT

Enter the SN or scan the SN bar code to add inverters to the plant.



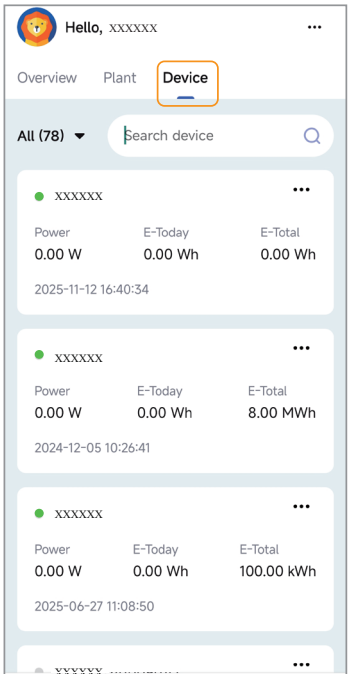
14.9 DELETE THE INVERTERS IN THE PLANT

Remove the inverter bound to the currently selected the Plant.



14.10 ACCOUNT-BOUND DEVICES

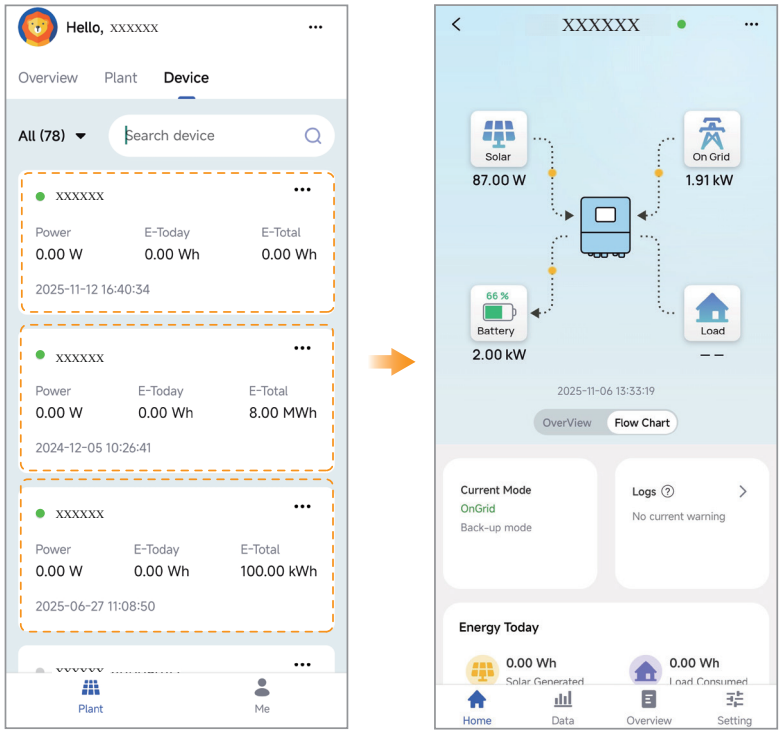
The Device item displays the inverters added in the account.



14.11 HOME OF THE DEVICE

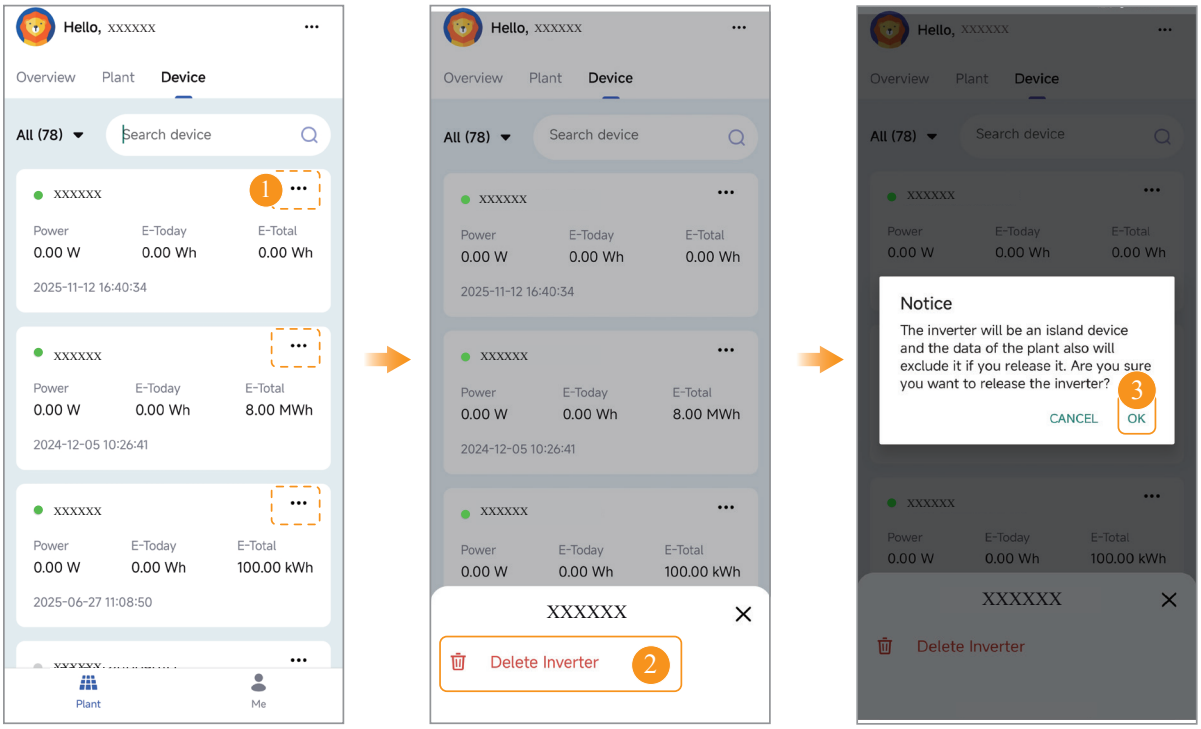
Tap the serial number of the inverter to enter the inverter Home page, where you can view or configure information or parameters for the inverter, battery, grid, etc.. For more details, refer to Chapter 3.

For ESS Inverters



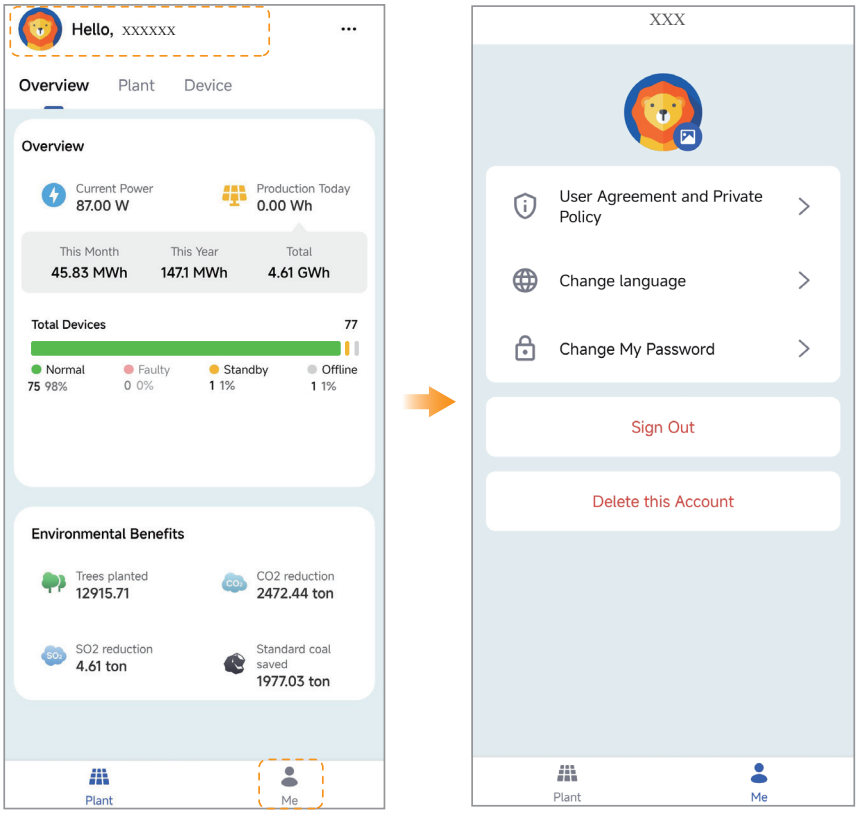
14.12 DELETE THE DEVICE IN THE ACCOUNT

Remove the inverter bound to the current login account.



14.13 ME

On this page, you can modify your account information and sign out.

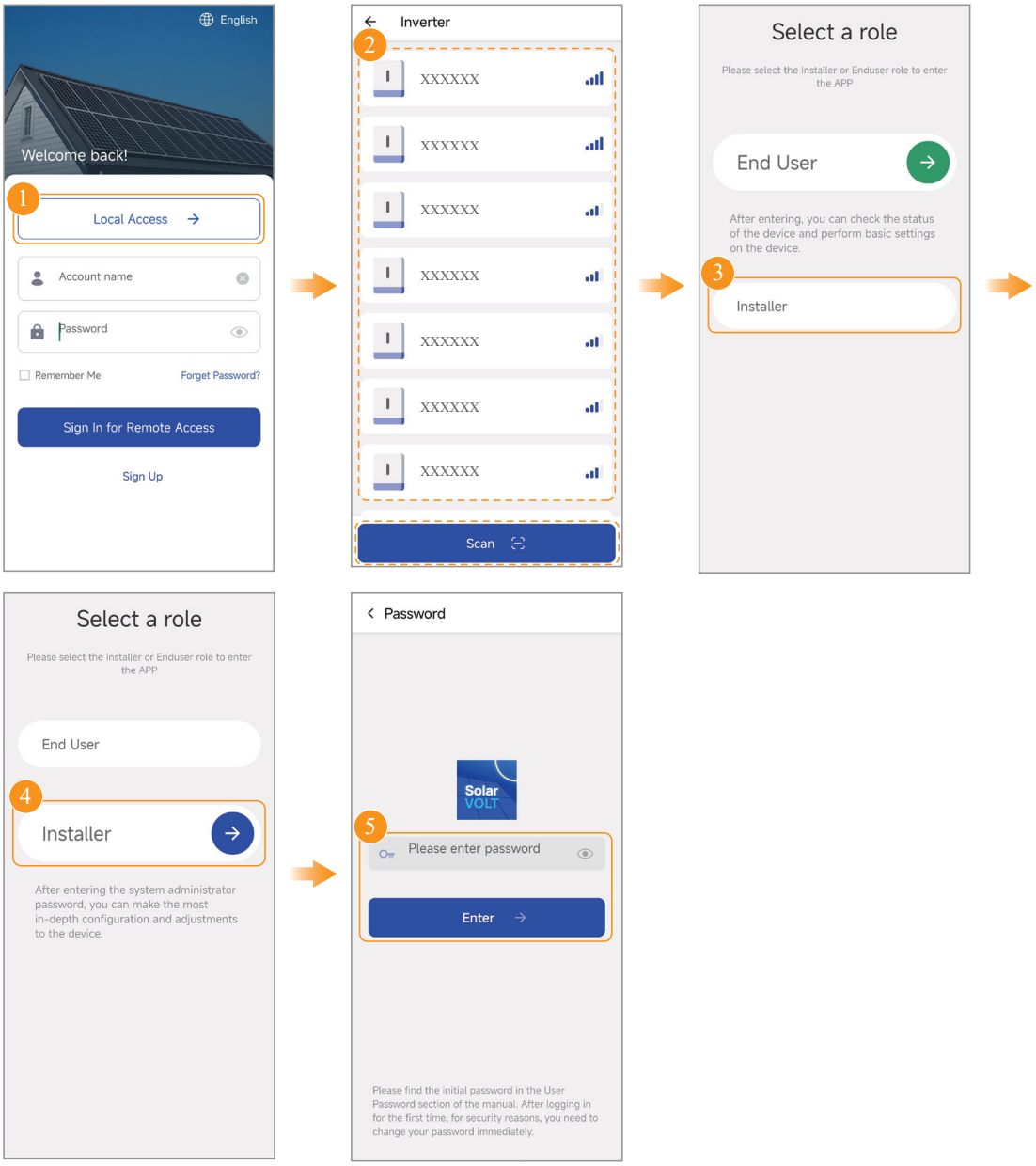


15. INSTALLER LOCAL ACCESS

Step 1: Power on the inverter and enable the Bluetooth on your phone.
Step 2: Open the app and tap Local Access. (See operation 1 in figures below.)
Step 3: Select your inverter from the list or scan the SN bar code on the inverter.
(See operation 2 in figures below.)
Step 4: Tap Installer twice and enter the password, superadmin to enter the Home page. (See operation 3-5 in figures below.)

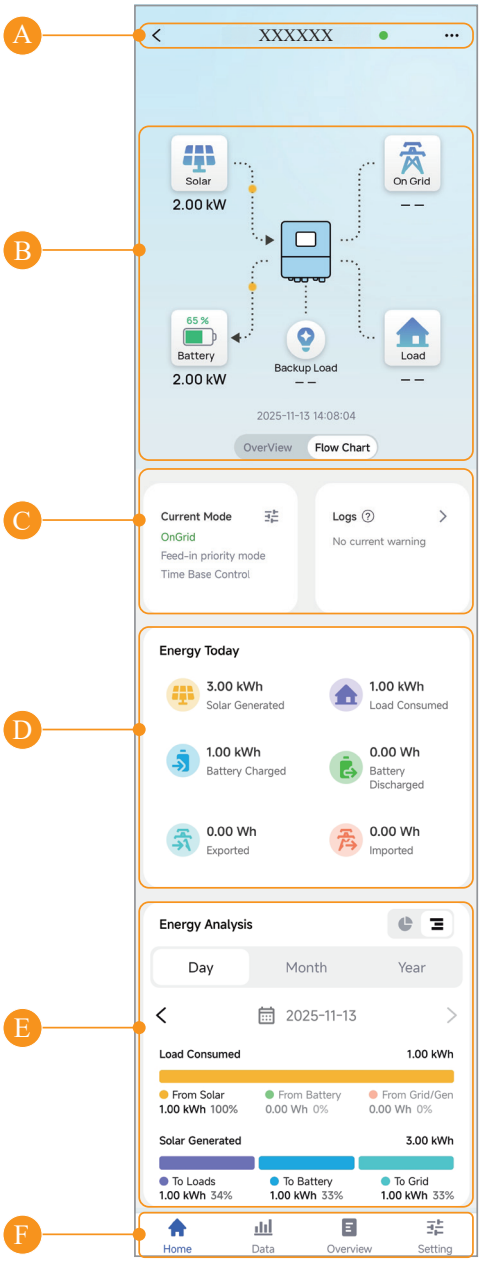
⚠ DANGER! ⚠

ONLY licensed electricians and qualified personnel approved by the AHJ shall perform this setup. Unqualified personnel are strictly prohibited from modifying this setting. Failure to comply may cause fire, severe property damage, serious injury, or death.



15.1 HOME OF THE DEVICE

The Home page displays the basic information of the inverter.



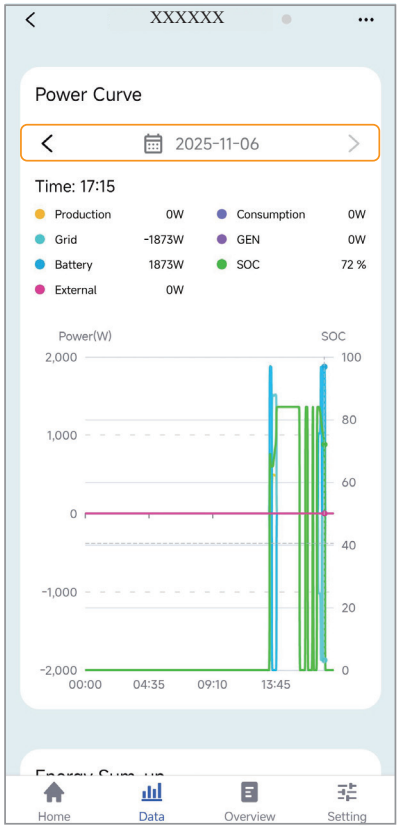
Number	Description
A	•Tap to return to the previous page. •The serial number and status of the inverter: Normal; Faulty; Standby; Offline. •Tap to enter Equipment Maintenance page and others.
B	This area displays energy flow of each parts in the system. Tap the icons for inverter, solar panel, grid, etc. to view the basic information about the inverter, solar panels, grid, and so on.
C	•This area shows the current mode and current alarms of the inverter. •Tap to enter inverter page for related settings. •Tap to view current alarms and historical alarms.
D	This part displays today's solar power generation, load consumption, battery charging and discharging capacity, as well as grid output and input.
E	•This part shows energy analysis of load consumption and solar power generation. •Tap to see pie chart.
F	Bottom navigation bar.

15.2 DATA

For ESS inverters, you can examine the graphical representation of energy generation or consumption for your home, solar panels, battery and the grid over various timeframes such as daily, monthly or yearly on this page.

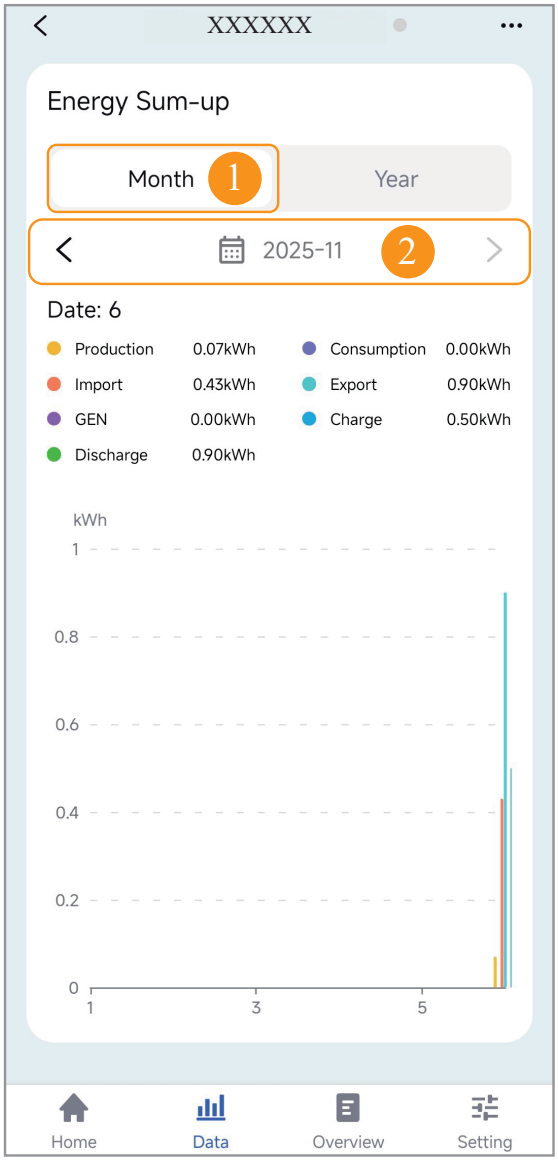
You can tap on any point of the graph to obtain the energy value for that specific time and tap the dot icon to hide the curve. Please note that the data curves provided in the illustrations are for example purposes only.

Query Daily Data:



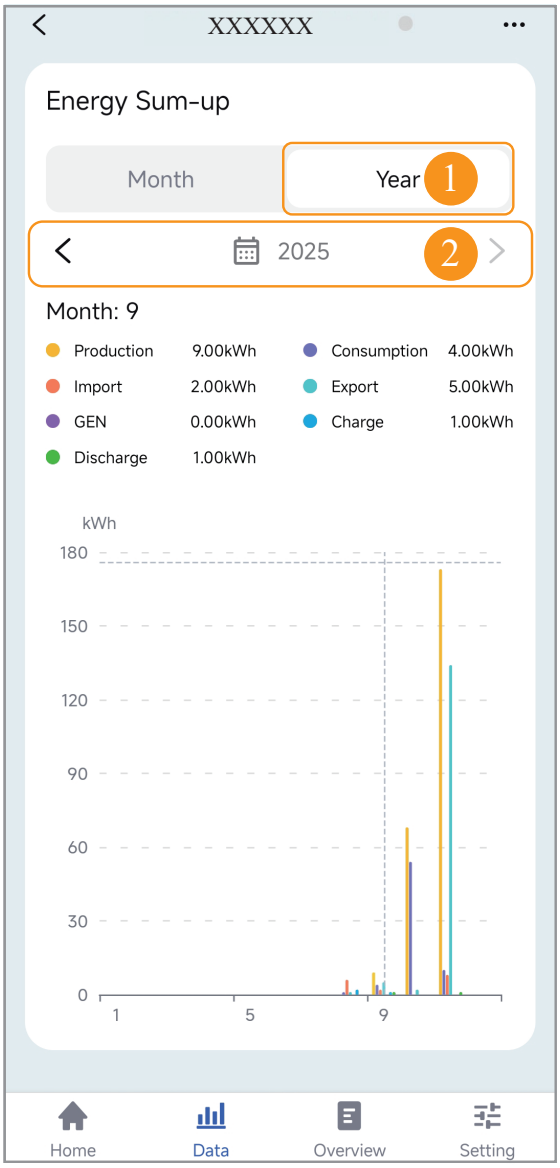
Icon	Description
Production	PV generation power
Concumption	Load consumption power
Grid	Grid power
GEN	GEN power
Battery	Charging and discharging power of battery
Charge	SOC of battery
External	AC coupling power (grid port)

Query Monthly Data:



Icon	Description
Production	PV generation capacity
Concumption	Load consumption capacity
Import	Grid capacity
Export	Feed-in grid capacity
GEN	GEN capacity
Charge	Battery charge capacity
Discharge	Battery discharge capacity

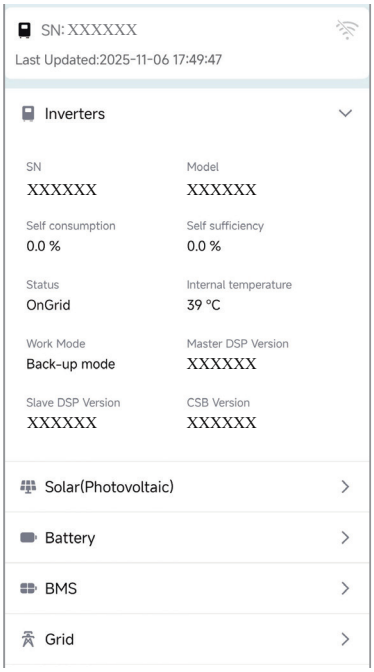
Query Yearly Data:



Icon	Description
Production	PV generation capacity
Concumption	Load consumption capacity
Import	Grid capacity
Export	Feed-in grid capacity
GEN	GEN capacity
Charge	Battery charge capacity
Discharge	Battery discharge capacity

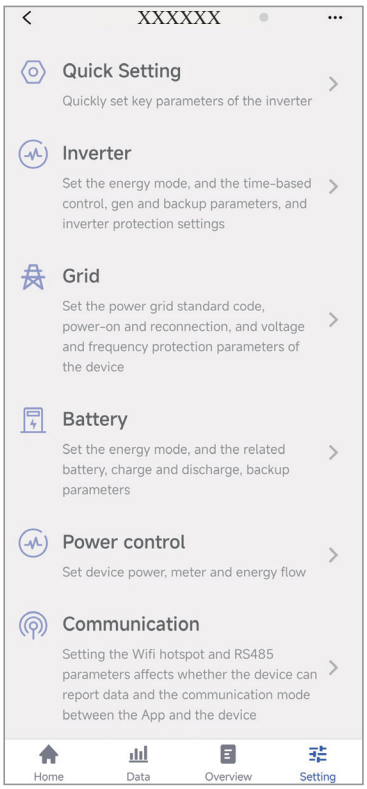
15.3 OVERVIEW

For ESS inverters, you can view the basic information about the inverter, solar panels, battery, BMS, grid, backup load, normal load and so on.



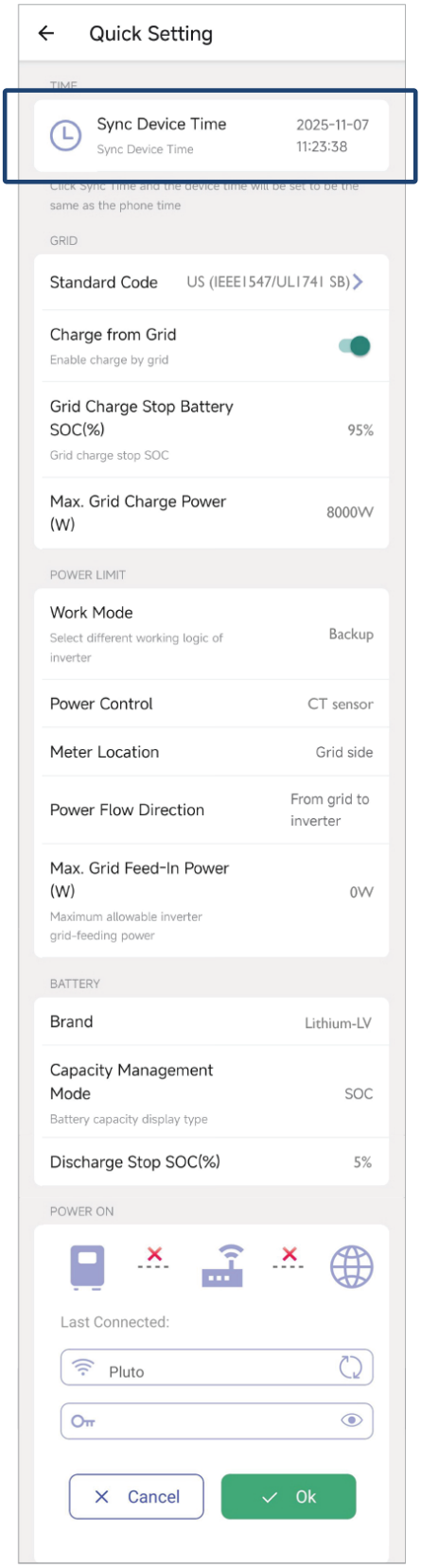
15.4 SETTINGS

On this page, you can adjust settings to optimize performance based on your specific requirements.



15.4.1 QUICK SETTING

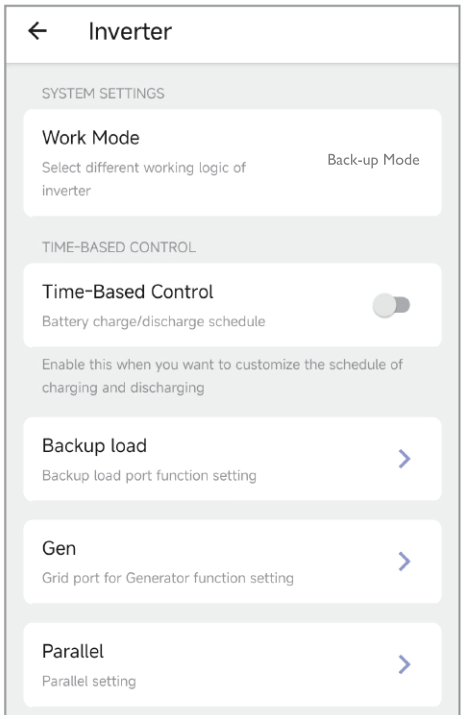
On this page, you can quickly setup the inverter and configure important paremeters so that the inverter can work quickly and normally.



Click here to set the time automatically

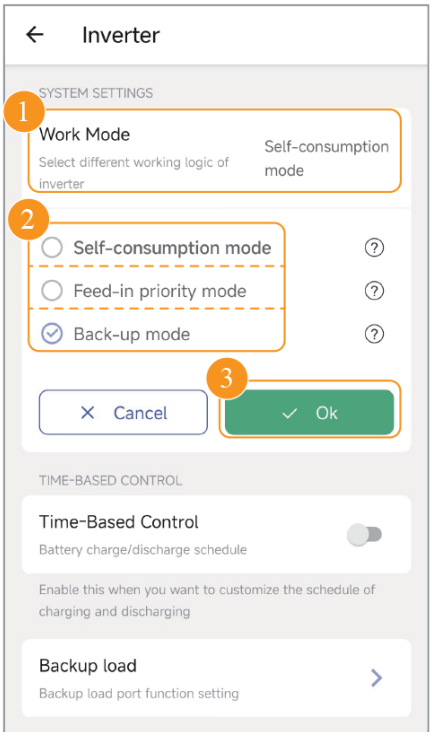
15.4.2 SETTINGS

On this page, you can configure relevant parameters of the inverter.



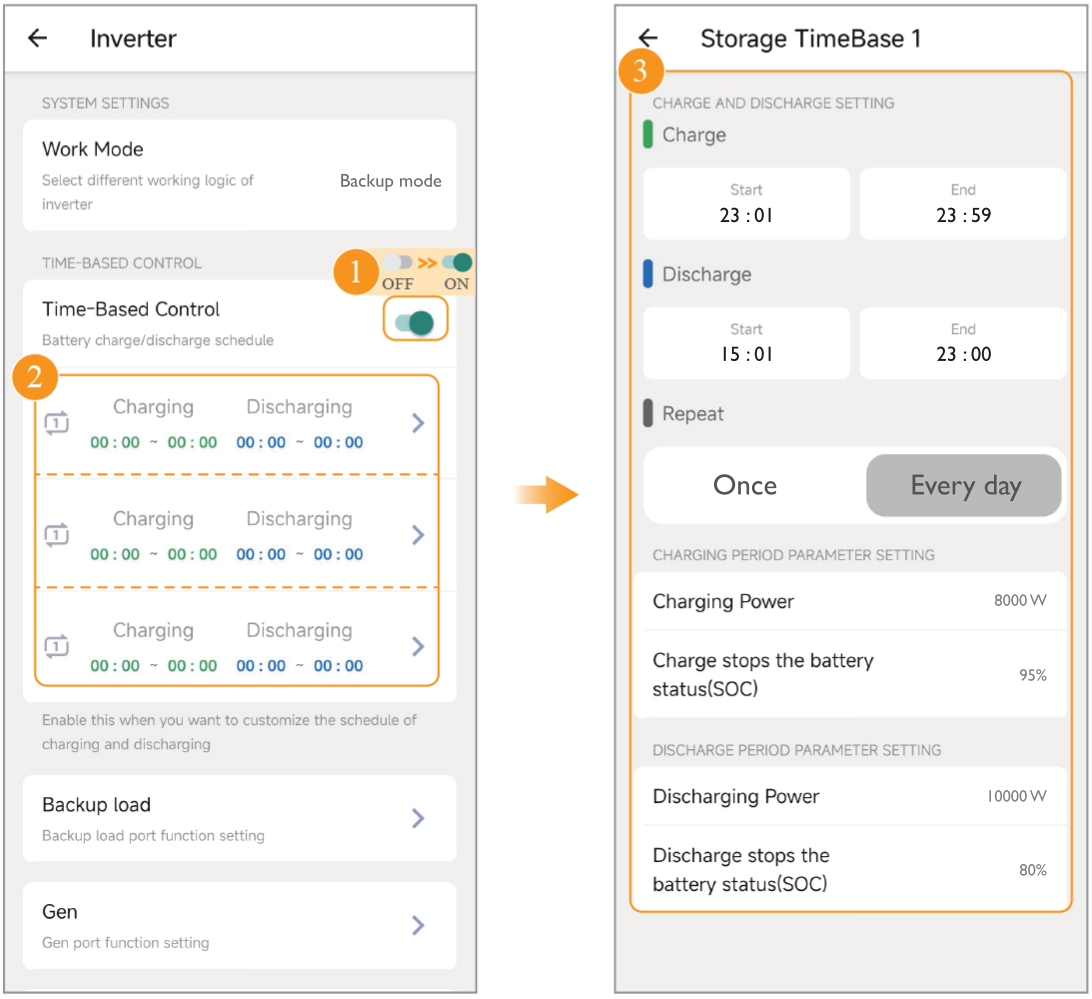
15.4.3 WORK MODE

On this page, you can select the work mode of the inverter.



15.4.4 TIME-BASED CONTROL

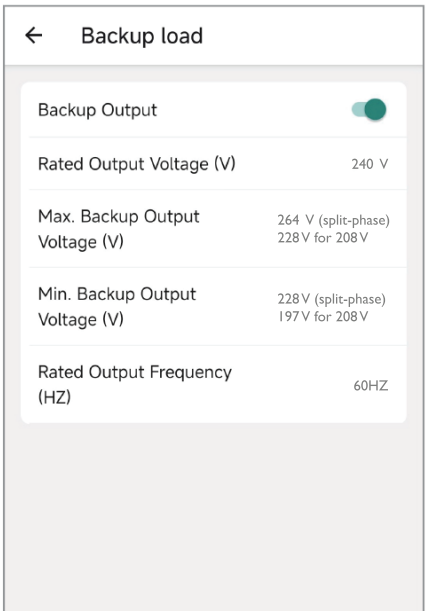
This page allows you to set the charging and discharging times. A universal configuration is provided for Hydro Time-of-Use (TOU) users. If you use a flat-rate or tiered-rate plan without solar panels, you can skip this section.



Tip: The low Discharged Stop SOC might lead to the low backup capacity when outage happens. As a backup battery, try set it above 80% to have a balanced performance.

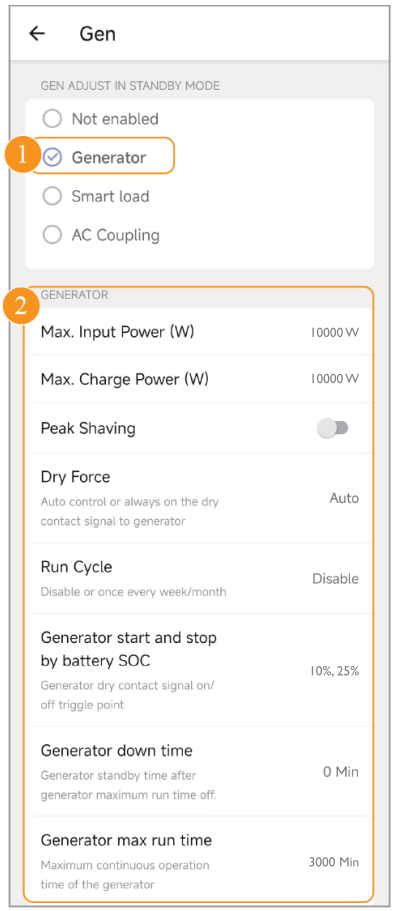
15.4.5 BACKUP LOAD

On this page, you can configure relevant parameters of the backup load port.



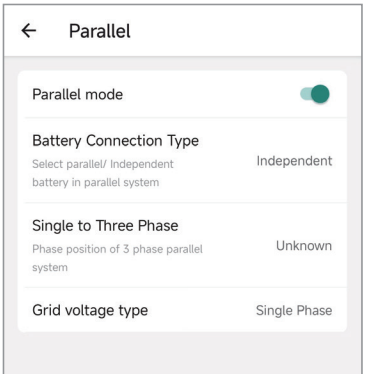
15.4.6 GEN

On this page, you can select Generator, do not select Smart load or AC coupling.



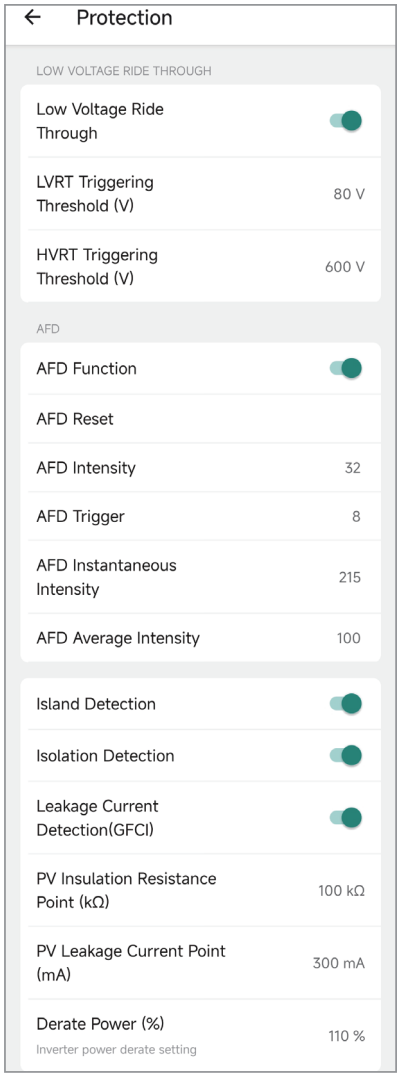
15.4.7 PARALLEL

On this page, you can enable parallel mode and perform relevant settings. If more than one battery or inverter are installed.



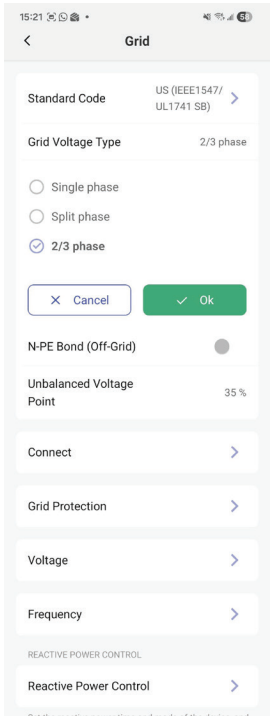
15.4.8 PROTECTION

On this page, you can configure relevant parameters to protect your inverter.



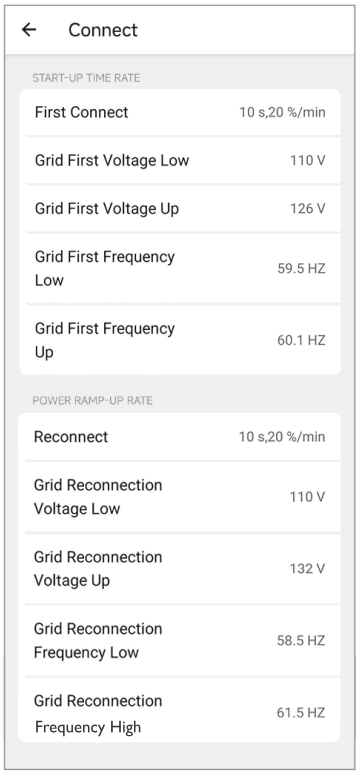
15.4.9 GRID

On this page, you can configure relevant parameters of the grid. Choose "split-phase" or "120/208V" of Grid Voltage Type to your panel distribution.



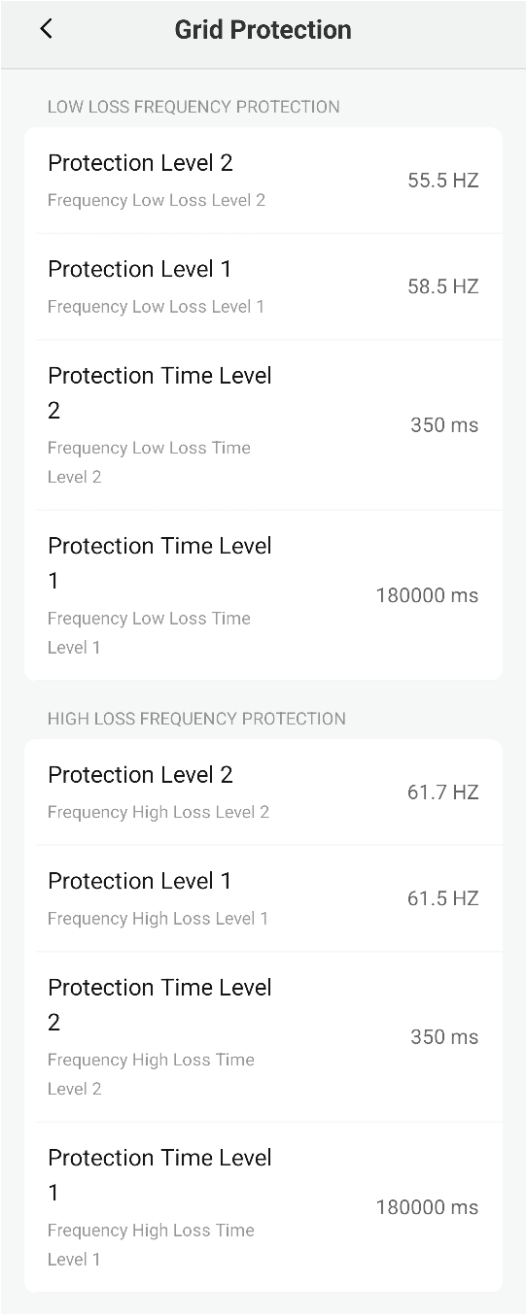
15.4.10 CONNECT

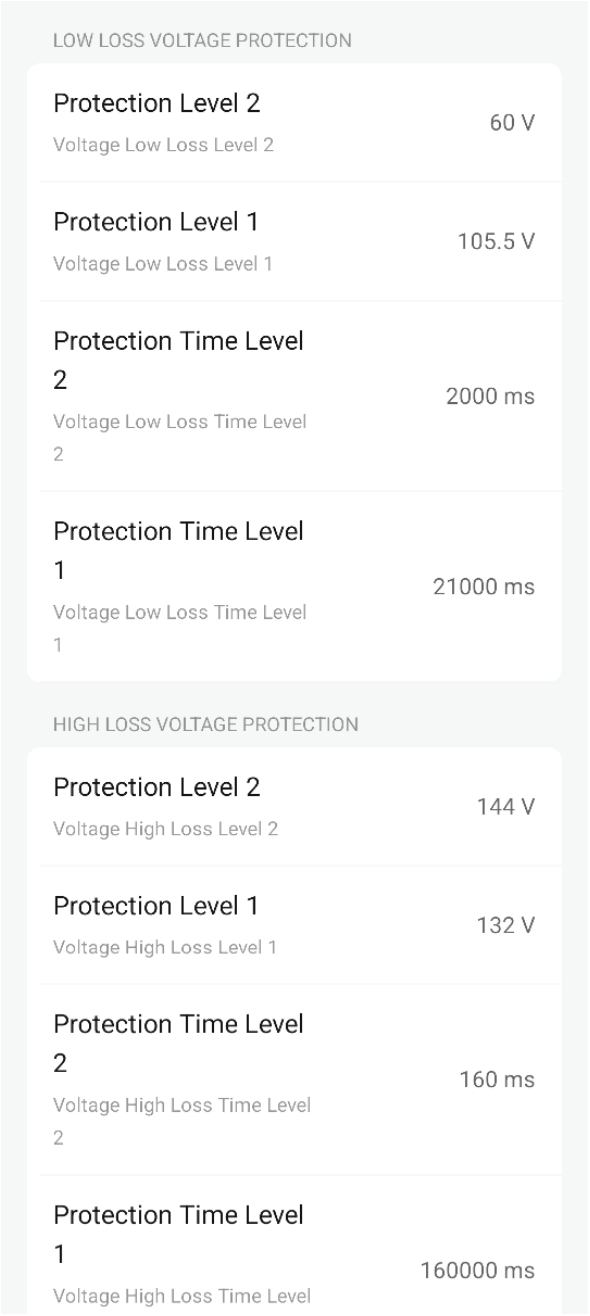
On this page, you can configure relevant parameters to ensure the connection of the grid. Local requirement and the registration to hydro might require 300s.



15.4.11 GRID PROTECTION

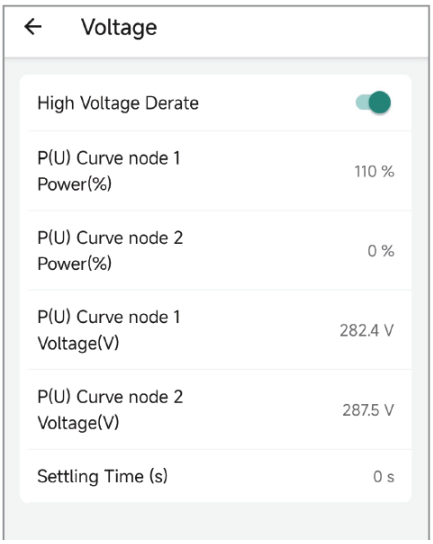
On this page, you can configure relevant parameters to protect the grid.





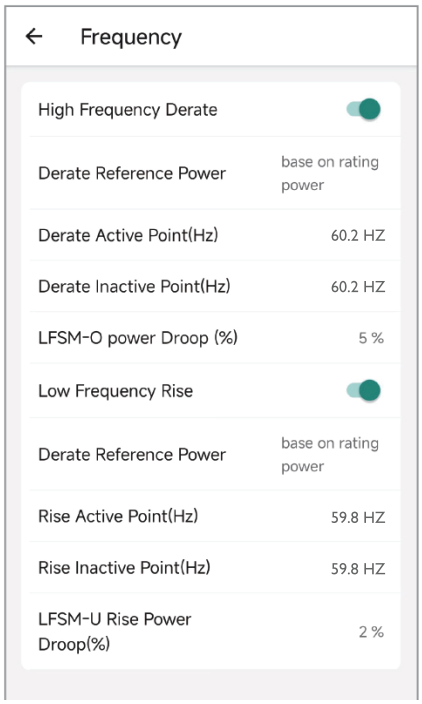
15.4.12 VOLTAGE

On this page, you can enable High Voltage Derate and adjust curve parameters.



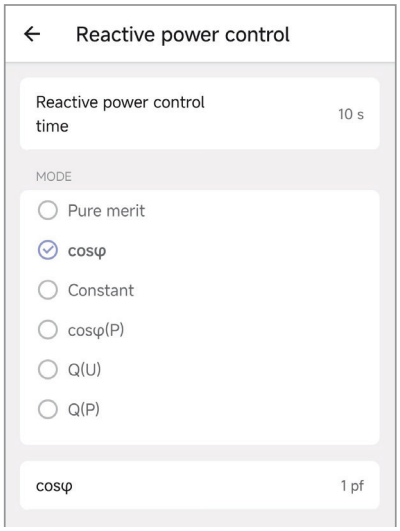
15.4.13 FREQUENCY

On this page, you can enable High Frequency Derate or Low Frequency Rise, and then configure relevant parameters.



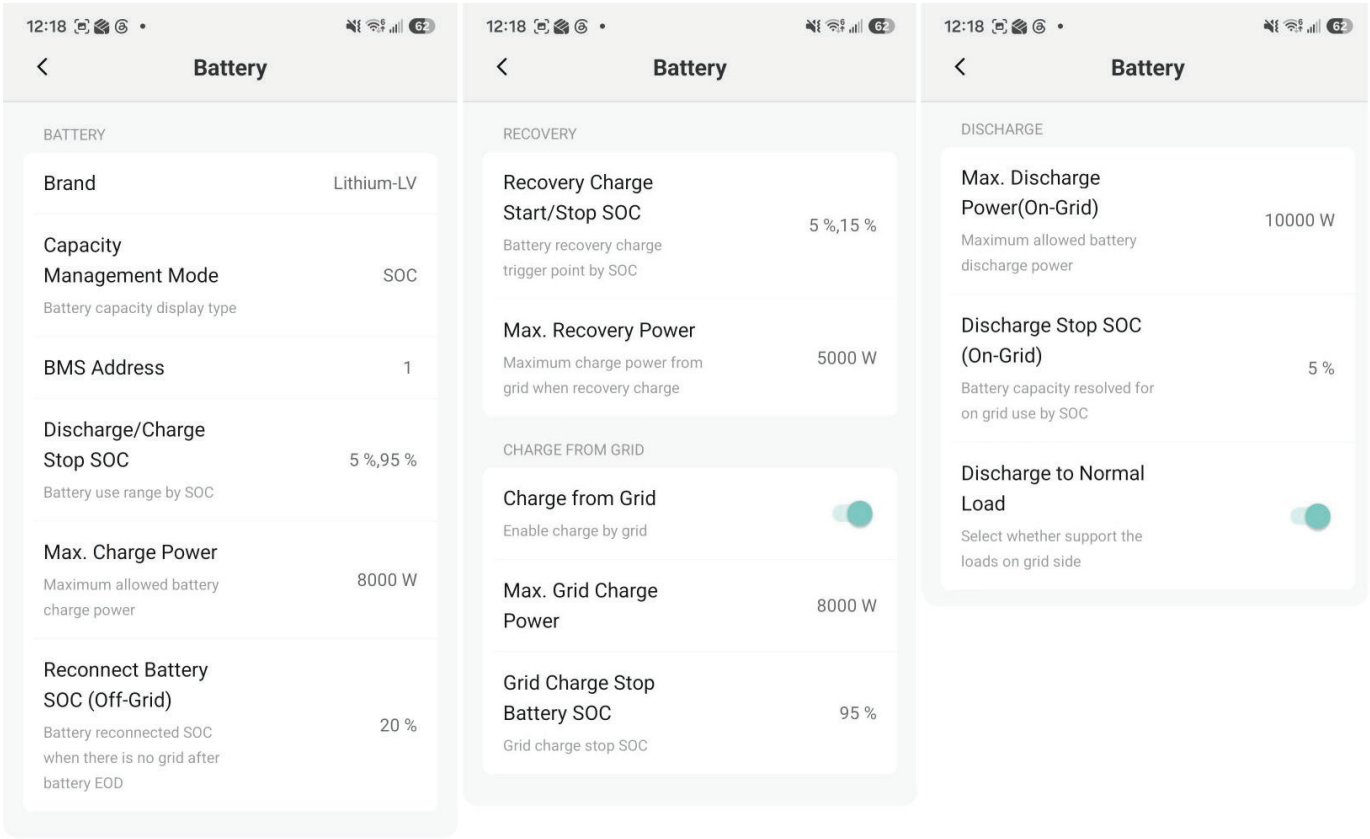
15.4.14 REACTIVE POWER CONTROL

On this page, you can select the mode of reactive power control and configure relevant parameters.



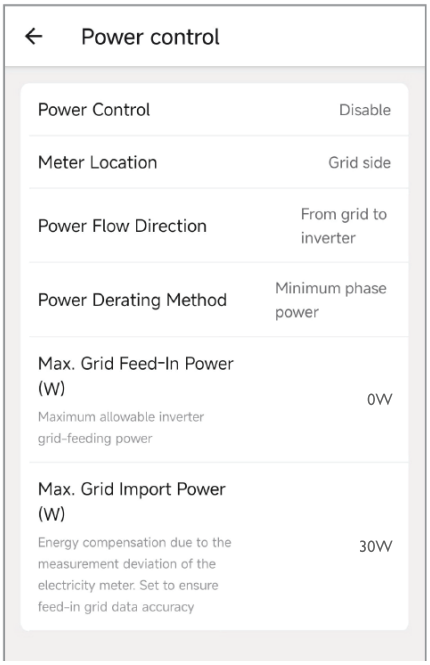
15.4.15 BATTERY

On this page, you can configure relevant parameters of the battery.



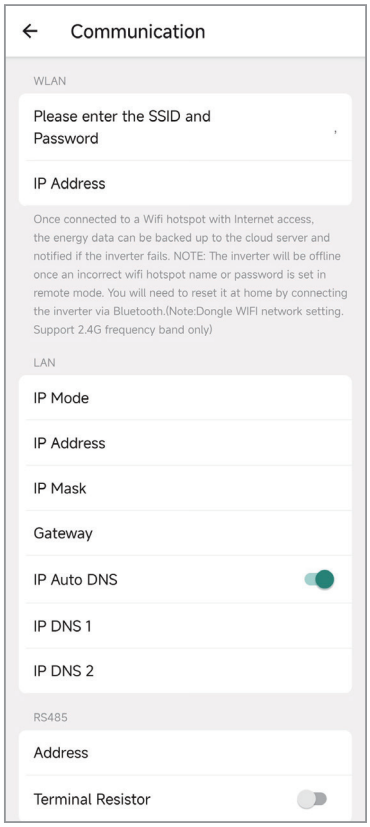
15.4.16 POWER CONTROL

On this page, you can configure relevant parameters of power control.



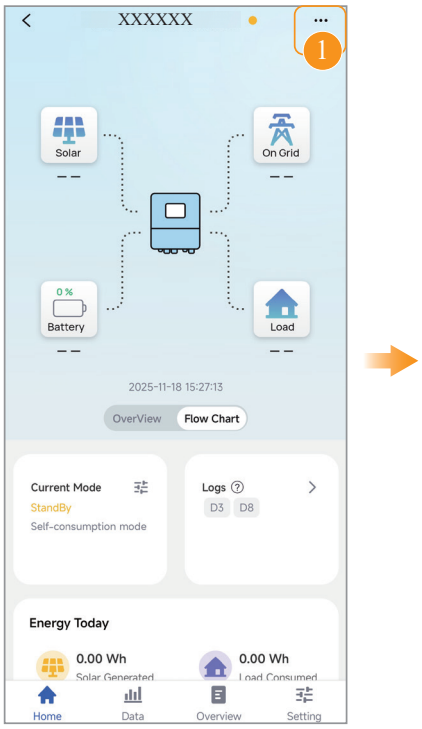
15.4.17 COMMUNICATION

On this page, you can configure relevant parameters of the communication.



15.5 BACK TO END USER

You can switch to end user access by tapping Back to End User.

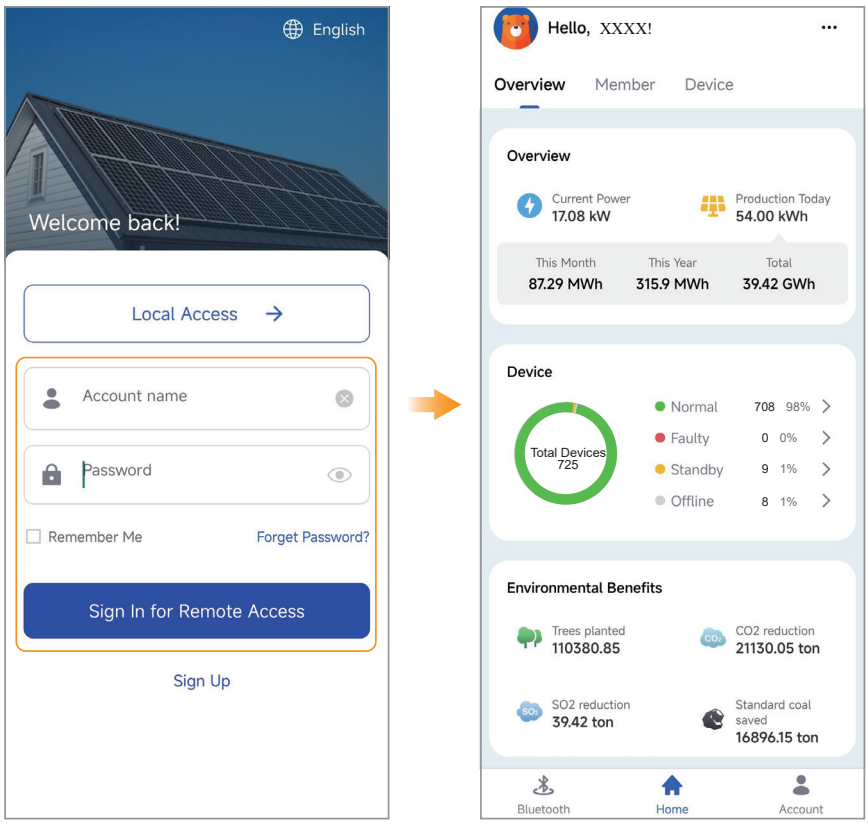


16. INSTALLER REMOTE ACCESS

Step 1: Power on the inverter and open the app.

Step 2: Sign up for a new installer remote account on the OSS platform or consult the after-sales personnel for the account and password.

Step 3: Enter the account name and password, then sign in for remote access.



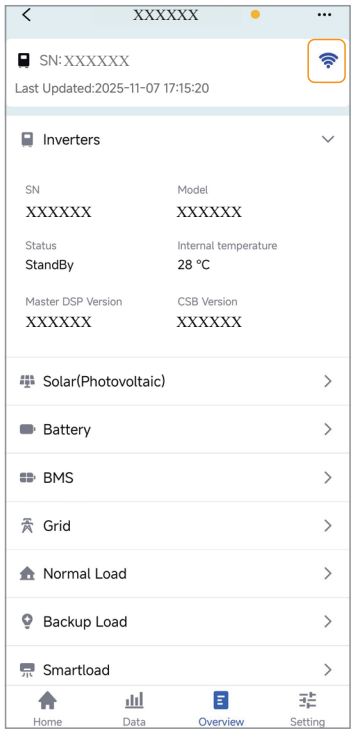
16.1 CREATE AN END USER

NOTE:
Before creating a plant, it is necessary to select Installer role for local access to connect the Inverter to the Router:

(1) Power on the inverter and enable the Bluetooth on your phone.
(2) Open the app and tap Local Access.
(3) Select your inverter from the list or scan the SN bar code on the inverter.
(4) Tap Installer to enter the Home page.
(5) Tap the Setting.
(6) Connect the inverter to the router by entering the Wi-Fi SSID and password.

For more details, refer to Installer Local Access and Setting. Suggestions for Wi-Fi Router

- It is recommended to use the Wi-Fi router within 15 m, and there is no obstacle between the inverter and the router.
- After installer local access, tap Overview to check the signal strength. Make sure that the Wi-Fi signal strength is more than three bars.
- When the signal strength is less than three bars, choose one of the following three ways to improve the signal:
  - Move the router closer to the inverter.
  - Adjust the height of the router to reduce obstacles.
  - Add a repeater to improve the signal strength.

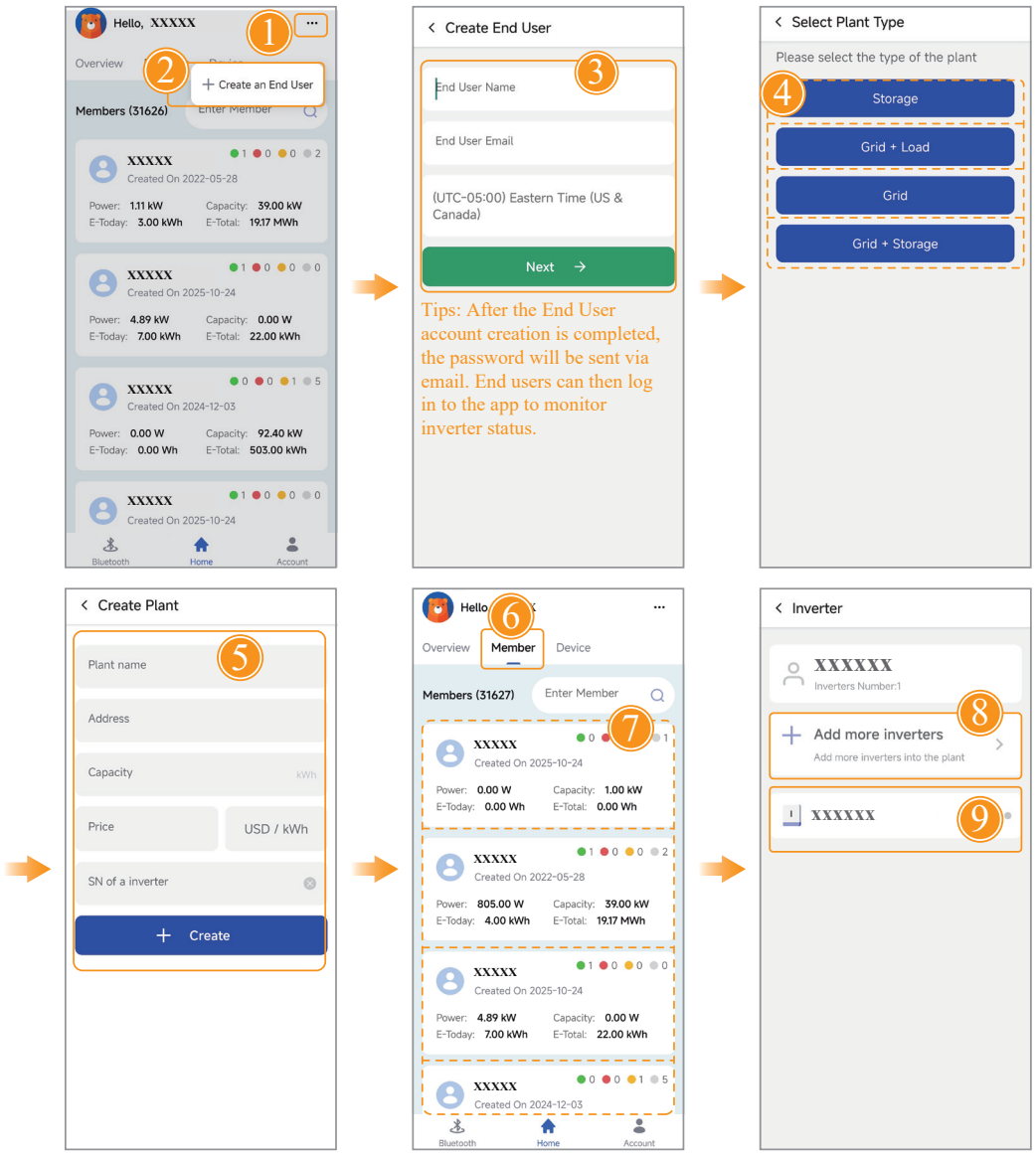


SETTING STEPS FOR CREATE A PLANT AND BINDING INVERTER

Step 1: Tap "..." > Create an End User on the Home page, enter the End User Name, End User Email, and time zone required for account creation. After the End User account creation is completed, the password will be sent via email. End users can then log in to the app to monitor inverter status. (See operation 1-3 in figures below.)

Step 2: Select the type of the plant and enter required information to add the power station. (See operation 4-5 in figures below.)

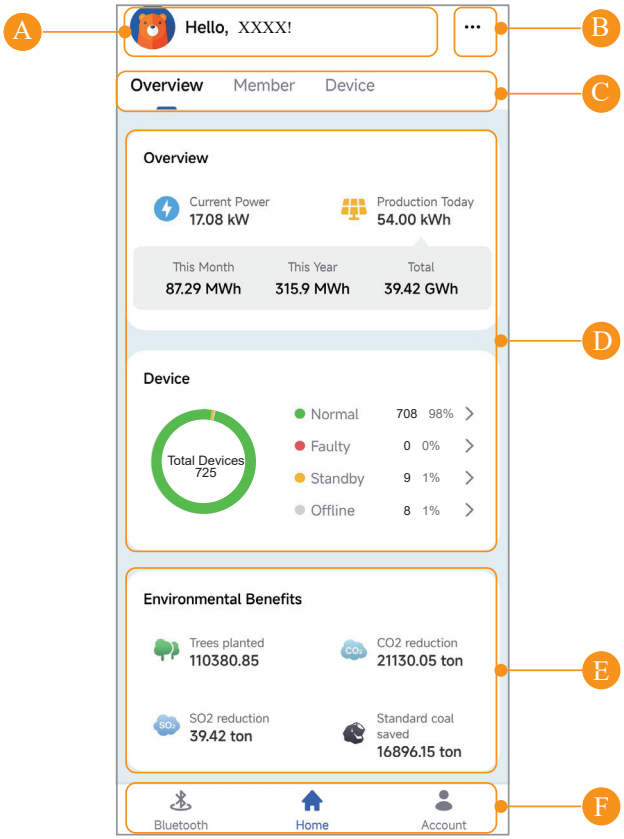
Step 3: Select your power station to add inverters and view inverter status. (See operation 6-9 in figures below.)



16.2 HOME

The Home displays the basic information of the plants added in the account.

16.2.1 OVERVIEW



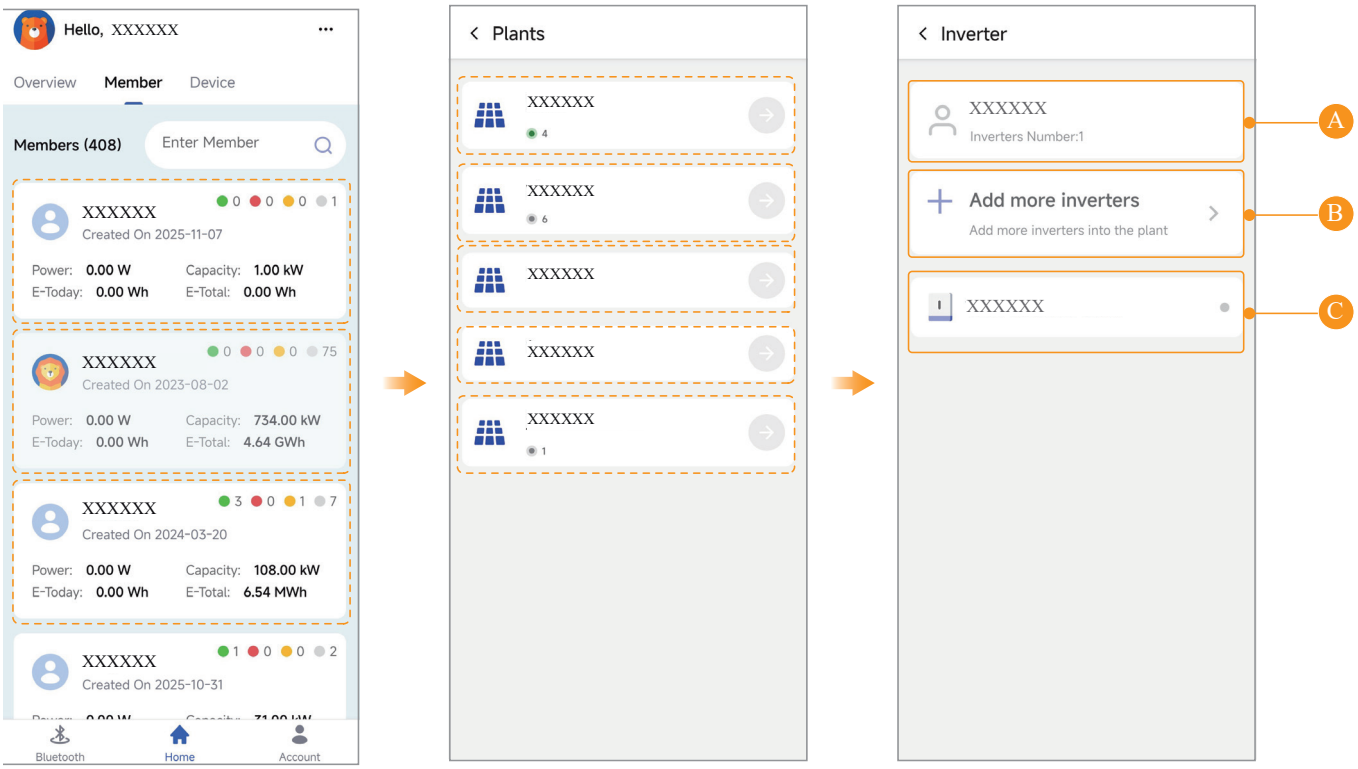
Number	Description
A	Tap the area to modify your account information and sign out.
B	Tap the '...' to create an End User.
C	Tap the corresponding title bar to display the overview, member, or device items.
D	All plants added in the account: • Current power. • Today's, Month's, Year's and Total PV energy generation. • Number of total devices and the status of the each device: Normal; Faulty; Standby; Offline
E	Environmental benefits.
F	Bottom navigation bar: • Bluetooth: Local access • Home: Set/delete the Plant • Account: Modify your account information and sign out.

16.2.2 MEMBERS MANAGEMENT

The Member item displays the end users added in the account.

16.2.2.1 MEMBER OF THE HOME PAGE

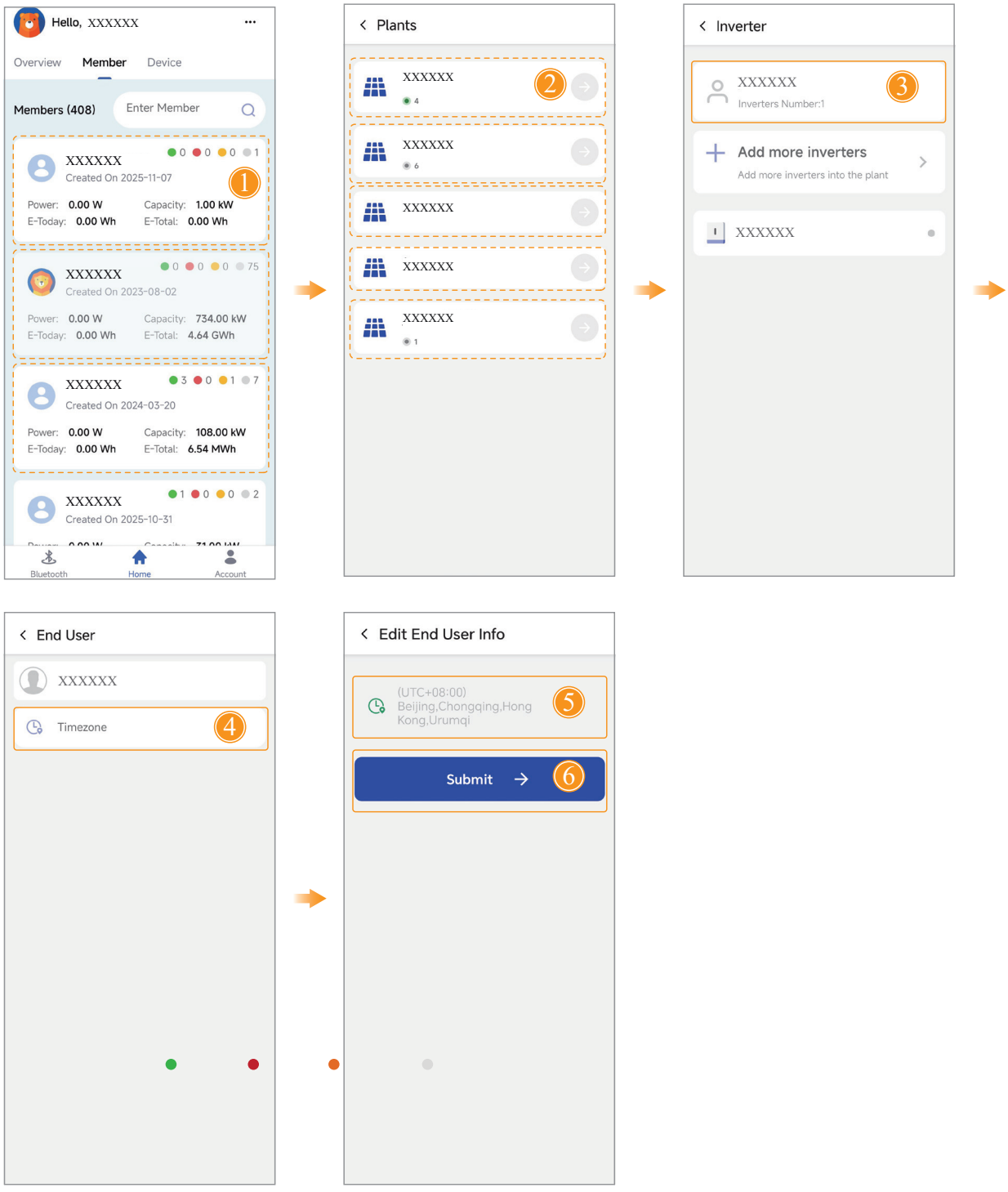
Select the Member to display.



Number	Description
A	Tap the area to modify your account information and sign out.
B	Tap the '...' to create an End User.
C	Tap the corresponding title bar to display the overview, member, or device items.

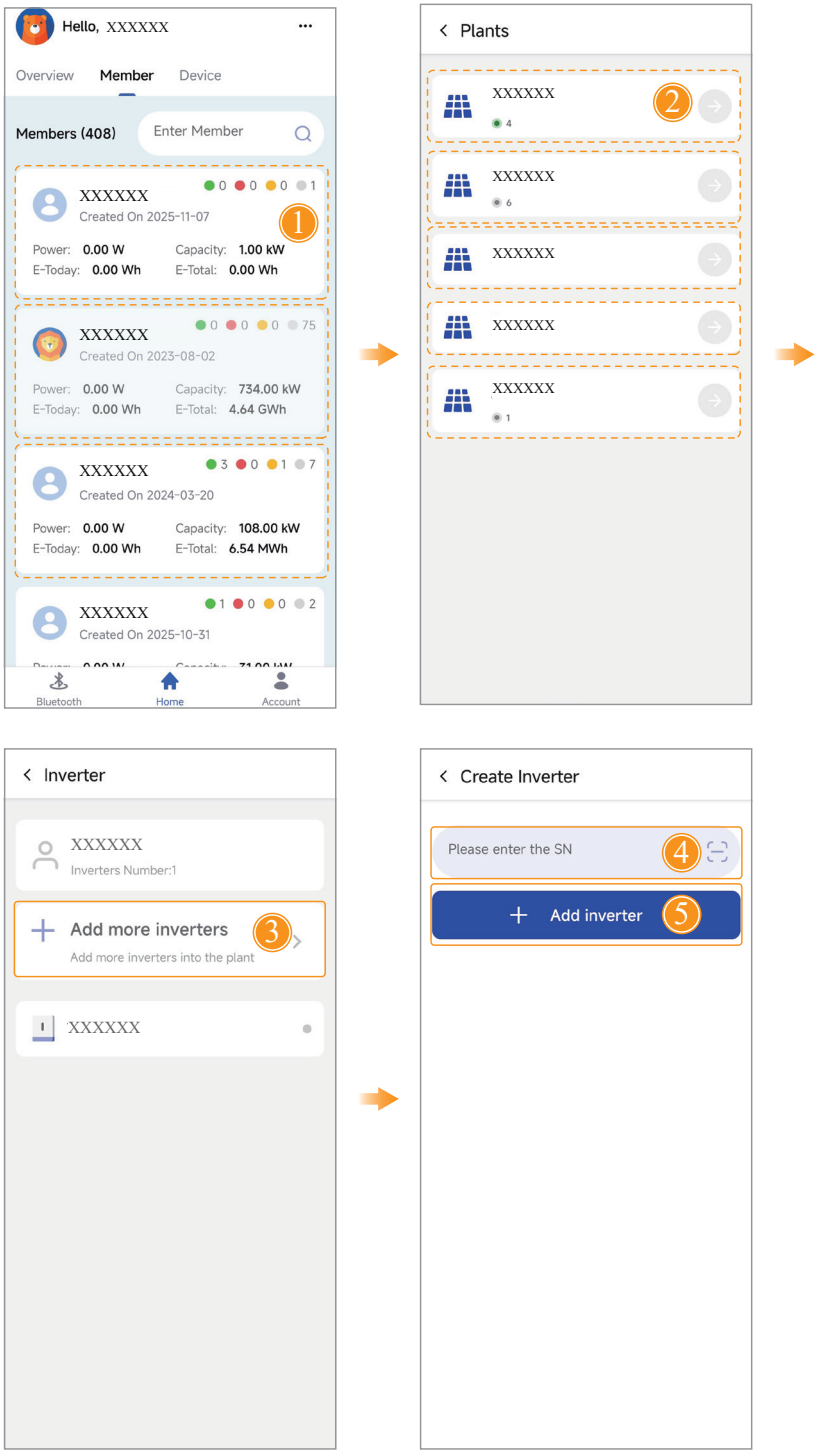
16.2.2.2 ADJUST THE TIME ZONE IN THE PLANT

You can adjust the time zone for necessary.



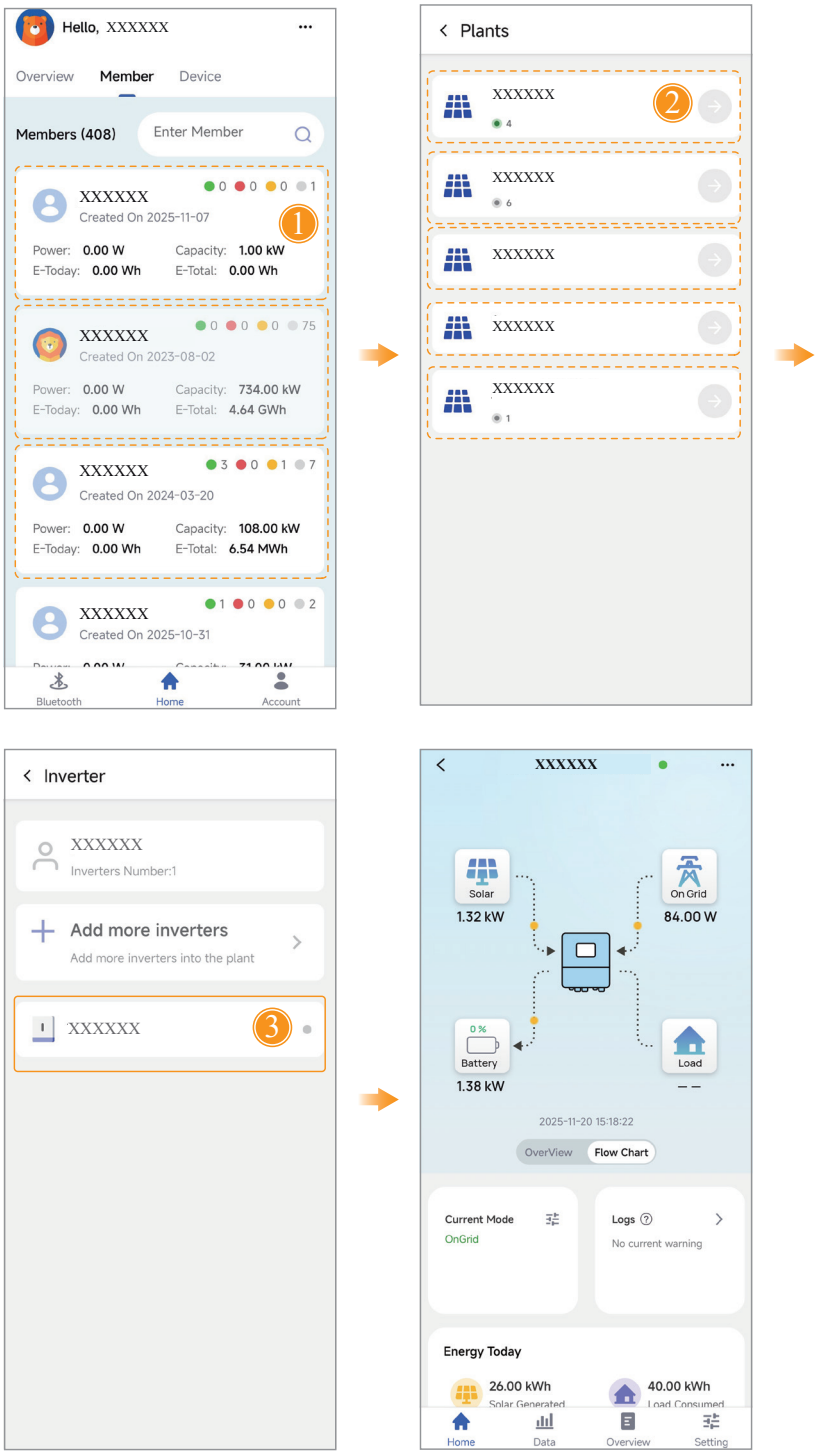
16.2.2.3 ADD MORE INVERTERS IN THE PLANT

You can add more inverters for necessary.



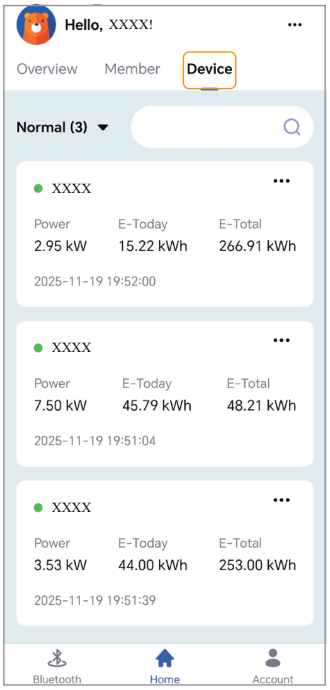
16.2.2.4 INVERTER MANAGEMENT

You can view or configure information or parameters for the inverter, battery, grid, etc.. For more details, refer to Installer Local Access.



16.2.3 ACCOUNT-BOUND DEVICES

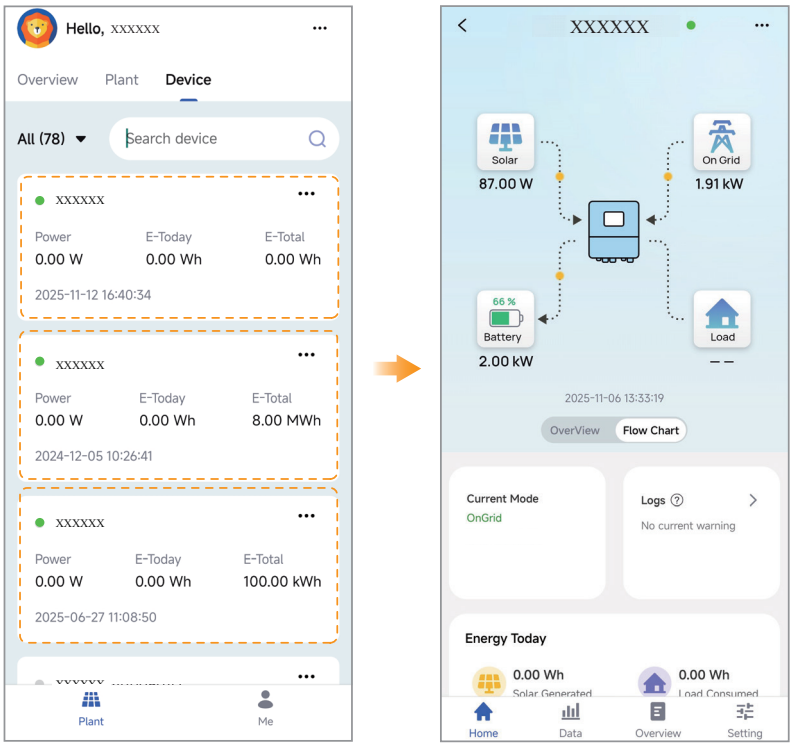
The Device item displays the inverters added in the account.



16.2.3.1 HOME PAGE OF THE DEVICE

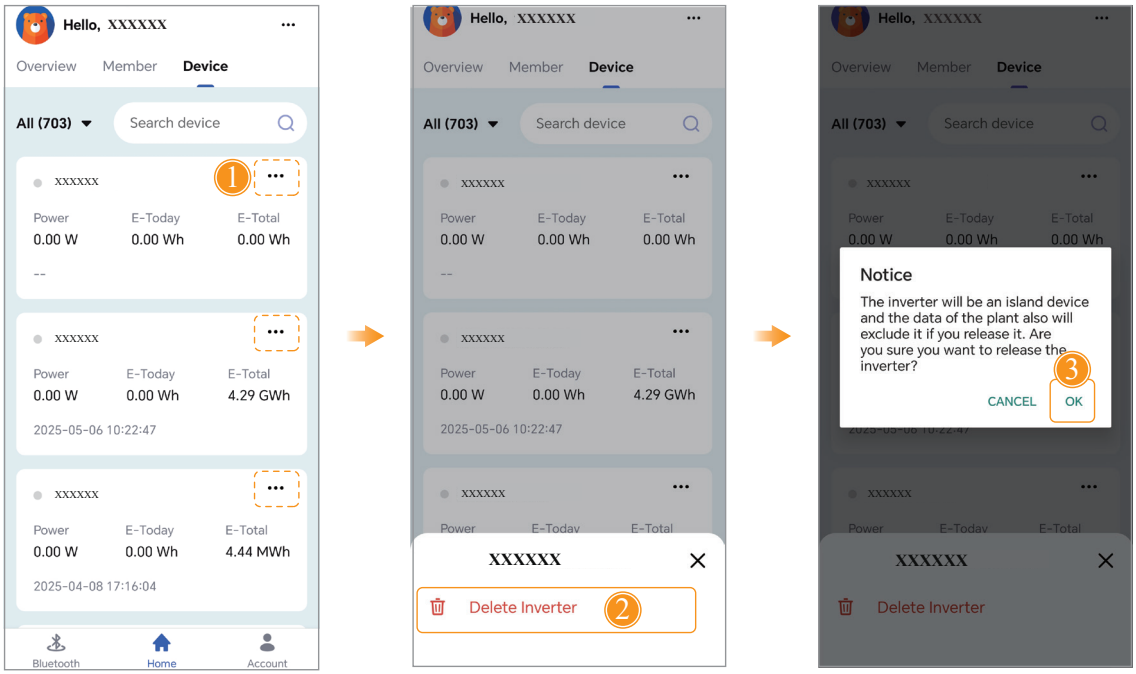
Tap the serial number of the inverter to enter the inverter Home page, where you can view or configure information or parameters for the inverter, battery, grid, etc.

For more details, refer to Installer Local Access.



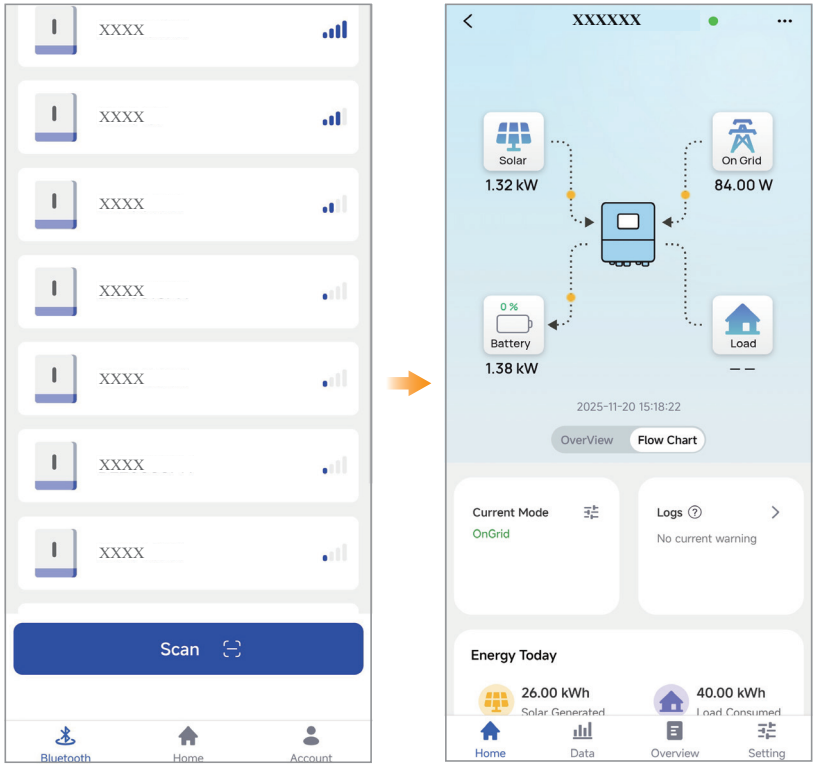
16.2.3.2 DELETE THE DEVICE IN THE ACCOUNT

Remove the inverter bound to the current login account.



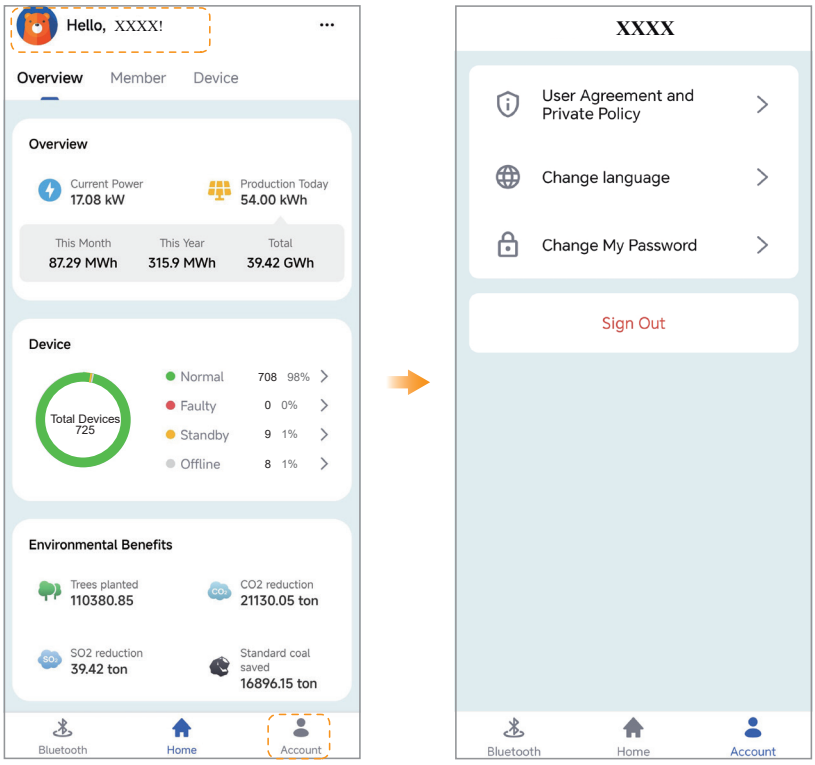
16.3 BLUETOOTH

On this page, you can connect to the inverter via bluetooth and view or configure information or parameters for the inverter, battery, grid, etc.. For more details, refer to Installer Local Access.



16.3 ACCOUNT

On this page, you can modify your account information and sign out.



17. TROUBLESHOOTING

⚠ **CAUTION**	Before maintaining and commissioning inverter and its peripheral distribution unit, switch off all the charged terminals of the inverter and wait at least 10 minutes after the inverter is powered off.

8.1 Routine Maintenance

Items	Check Content	Maintain Content	Maintenance Interval
Inverter output status	Statistically maintain the status of electrical yield, and remotely monitor its abnormal status.	N/A	Weekly
Inverter cleaning	Check periodically that the heat sink is free from dust and blockage.	Clean periodically the heat sink.	Yearly
Inverter running status	Check that the inverter is not damaged or deformed. Check for normal sound emitted during inverter operation. Check and ensure that all inverter communications are running well.	If there is any abnormal phenomenon, replace the relevant parts.	Monthly
Inverter electrical connections	Check that all AC, DC and communication cables are securely connected; Check that PGND cables are securely connected; Check that all cables are intact and free from aging.	If there is any abnormal phenomenon, replace the cable or re-connect it.	Semiannually

When the inverter has an exception, its basic common warning and handling methods are shown below.

Code	Alarm Information	Suggestions
A0	Grid over voltage	1. If the alarm occurs occasionally, possibly the power grid voltage is abnormal temporarily, and no action is required. 2. If the alarm occurs repeatedly, contact the local power station. After receiving approval of the local power bureau, revise the electrical protection parameter settings on the inverter through the App. 3. If the alarm persists for along time, check whether the AC circuit breaker /AC terminals is disconnected, or if the grid has a power outage.
A1	Grid under voltage	
A3	Grid over frequency	
A4	Grid under frequency	
A2	Grid absent	Wait till power is restored.
B0	PV over voltage	Check whether the maximum input voltage of a single PV string exceeds the MPPT working voltage. If yes, modify the number of PV module connection strings.
B1	PV insulation abnormal	1. Check the insulation resistance against the ground for the PV strings. If a short circuit has occurred, rectify the fault. 2. If the insulation resistance against the ground is less than the default value in a rainy environment, set insulation resistance protection on the App.
B2	Leakage current abnormal	1. If the alarm occurs occasionally, the inverter can be automatically recovered to the normal operating status after the fault is rectified. 2. If the alarm occurs repeatedly, contact your dealer for technical support.
B4	PV under voltage	1. If the alarm occurs occasionally, possibly the external circuits are abnormal accidentally. The inverter automatically recovers to the normal operating status after the fault is rectified. 2. If the alarm occurs repeatedly or last a long time, check whether the insulation resistance against the ground of PV strings is too low.
C0	Internal power supply abnormal	1. If the alarm occurs occasionally, the inverter can be automatically restored, and no action is required. 2. If the alarm occurs repeatedly, please contact the customer service.

C2	Inverter over dc-bias current	1. If the alarm occurs occasionally, possibly the power grid voltage is abnormal temporarily, and no action is required. 2. If the alarm occurs repeatedly, and the inverter fails to generate power, contact the customer service.
C3	Inverter relay abnormal	1. If the alarm occurs occasionally, possibly the power grid voltage is abnormal temporarily, and no action is required. 2. If the alarm occurs repeatedly, pls. refer to the suggestions or measures of Grid over voltage. If the inverter fails to generate power, contact the customer service center. If there is no abnormality on the grid side, the machine fault can be determined. (If you open the cover and find traces of damage to the relay, it can be concluded that the machine is faulty.) And pls. contact the customer service.
CN	Remote off	1. Local manual shutdown is performed in APP. 2. The monitor executed the remote shutdown instruction. 3. Remove the communication module and confirm whether the alarm disappears. If yes, replace the communication module. Otherwise, please contact the customer service.
C5	Inverter over temperature	1. If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. 2. If the alarm occurs repeatedly, please check whether the installation site has direct sunlight, bad ventilation, or high ambient temperature (such as installed on the parapet). Yet, if the ambient temperature is lower than 45° C and the heat dissipation and ventilation is good, please contact customer service.
C6	GFCI abnormal	1. If the alarm occurs occasionally, it could have been an occasional exception to the external wiring. The inverter can be automatically recovered. No action is required. 2. If it occurs repeatedly or cannot be recovered for a long time, please contact customer service.
B7	PV string reverse	Check and modify the positive and negative polarity of the input string.
C8	Fan abnormal	1. If the alarm occurs occasionally, please restart the inverter. 2. If it occurs repeatedly or cannot be recovered for a long time, check whether the external fan is blocked by other objects. Otherwise, Please contact customer service.
C9	Unbalance Dc-link voltage	1. If the alarm occurs occasionally, the inverter can be automatically recovered. No action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Please contact customer service.
CA	Dc-link over voltage	

CB	Internal communication error	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Pls. contact the customer service center.
CC	Software incompatibility	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Pls. contact the customer service center.
CD	Internal storage error	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Pls. contact the customer service center.
CE	Data inconsistency	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Pls. contact the customer service center.
CF	Inverter abnormal	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Pls. contact the customer service center.
CG	Boost abnormal	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. If the alarm occurs repeatedly, the inverter cannot work properly. Pls. contact the customer service center.
CJ	Meter lost	1. Check the meter parameter Settings 2. Local APP checks that the communication address of the inverter is consistent with that of the electricity meter 3. The communication line is connected incorrectly or in bad contact 4. electricity meter failure. 5. Exclude the above, if the alarm continues to occur, please contact the customer service center.
P1	Parallel ID warning	It is Parallel ID Alarm. Pls. check the parallel communication cable, and check whether any inverter joins or exits online. All inverters are powered off completely, check the line, and then power on the inverters again to ensure that the alarm is cleared.
P2	Parallel SYN signal warning	Parallel synchronization signal is abnormal. Check whether the parallel communication cable is properly connected.
P3	Parallel BAT abnormal	The parallel battery is abnormal. Whether the battery of the inverter is reported low voltage or the battery is not connected.
P4	Parallel GRID abnormal	The parallel grid is abnormal. Whether the grid of the inverter is abnormal.

P5	Phase Sequence abnormal	Ensure that Set phase position on APP is consistent with the power grid phase. There are two ways to clear this alarm: 1. Power off each inverter, change the phase sequence for each inverter and then power on inverter. 2. Standby each inverter, change the phase sequence for each inverter on APP, power off inverter, and then power on inverter. If exclude the above, the alarm continues to occur, please contact the customer service center.
D2	Battery over voltage	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. Check that the battery overvoltage protection value is improperly set. 3. The battery is abnormal. 4. If exclude the above, the alarm continues to occur, please contact the customer service center.
D3	Battery under voltage	1. If the alarm occurs occasionally, the inverter can be automatically recovered and no action is required. 2. Check the communication line connection between BMS and inverter (lithium battery). 3. The battery is empty or the battery voltage is lower than the SOC cut-off voltage. 4. The battery undervoltage protection value is improperly set. 5. The battery is abnormal. 6. If exclude the above, the alarm continues to occur, please contact the customer service center.
D4	Battery discharger over current	1. Check whether the battery parameters are correctly set. 2. Battery undervoltage. 3. Check whether a separate battery is loaded and the discharge current exceeds the battery specifications. 4. The battery is abnormal. 5. If exclude the above, the alarm continues to occur, please contact the customer service center.
D5	Battery over temperature	1. If the alarm occurs repeatedly, please check whether the installation site is in direct sunlight and whether the ambient temperature is too high (such as in a closed room). 2. If the battery is abnormal, replace it with a new one. 3. If exclude the above, the alarm continues to occur, please contact the customer service center.
D6	Battery under temperature	
D7	BACKUP output voltage abnormal	1. Check whether the BACKUP voltage and frequency Settings are within the specified range. 2. Check whether the BACKUP port is overloaded. 3. When not connected to the power grid, check whether BACKUP output is normal. 4. If exclude the above, the alarm continues to occur, please contact the customer service center.

18. MAINTENENCE

Items	Check for	Maintain	Maintenence Interval
Inverter Output Status	Statistically maintain the status of electrical yield, and remotely monitor its abnormal status.	N / A	Weekly
Inverter Cleaning	Check periodically that the heat sink is free from dust and blockage.	Clean periodically the heat sink.	Monthly
Inverter Running Status	Check that the inverter is not damaged or deformed. Check for normal sound emitted during inverter operation. Check and ensure that all inverter communications are running well.	If there are any abnormalities, contact Customer Service.	Monthly
Inverter Electrical Connections	Check that all AC, DC and communication cables are securely connected; Check that PGND cables are securely connected; Check that all cables are intact and free from aging.	If there are any abnormalities, replace the connections or contact Customer Support.	Annually

19. TECHNICAL SPECIFICATIONS

	PARAMETER	5210-168 11.4KW HYBRID INVERTER
	Max. Efficiency (PV to AC)	98.0%
	Max. Efficiency (BAT to AC)	94.5%
	CEC Efficiency	96.5%
INPUT (PV)	Max. PV Input Power	15,000W
	Max. PV Voltage	600V
	Start-up Voltage	90V
	MPPT Operating Voltage Range	70V–540V
	Max. Input Current per MPPT	30A/22A/22A
	Max. Short Circuit Current per MPPT	40A/30A/30A
	Strings per MPPT	2/2/2
	Number of MPPTs	3
INPUT / OUTPUT (BATTERY)	Battery Type	Lithium-ion / Lead-acid
	Nominal Battery Voltage	48V
	Battery Voltage Range	40V–64V
	Max. Charge/Discharge Current	210A/210A
	Max. Charge/Discharge Power	10,000W/10,000W
INPUT	Recommended Generator Type	Invertor
	Maximum Input Power	10,000VA

OUTPUT (GRID)	Nominal AC Output Power	10,000W
	Max. AC Output Apparent Power	11,400VA
	Max. AC Output Power (PF=1)	11,400W
	Nominal AC Output Current	41.7A
	Max. AC Output Current	47.5A
	Nominal Grid Voltage	120V/240V (Split phase) / 208V (2/3 phase)
	Nominal Grid Frequency	50Hz /60Hz
	Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)
	Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)
	THDI	<3% (Rated Power)
OUTPUT (BACKUP)	Nominal Output Power	10,000W
	Max. AC Output Power (PF=1)	11,400W
	Nominal Output Current	41.7A
	Peak Power (1s)	20,000VA
	Nominal Output Voltage	120V/240V (Split phase) / 208V (2/3 phase)
	Nominal Output Frequency	50Hz/60Hz
	Transfer Time	<10ms (typical)
	THDV	<3% @100% R Load

PROTECTION	Protection Category	Class I
	DC Switch	Yes
	Anti-islanding Protection	Yes
	AC Overcurrent Protection	Yes
	DC/AC Overvoltage Protection	DC Type II, AC Type IV
	AC Short Circuit Protection	Yes
	DC Reverse Protection	Yes
	Surge Arrester	DC Type II, AC Type II
	Insulation Resistance Detection	Yes
	Leakage Current Protection	Yes
	AFCI	Yes
	RSD	Yes
	Generator	Yes

GENERAL	Max. Operation Altitude	2000m
	Ingress Protection Degree	NEMA 3R
	Operating Temperature Range	-25°C ~ 60°C (>45°C derating)
	Relative Humidity	0~100%
	Cooling Method	Fan Cooling
	Mounting	Wall bracket
	Dimensions (W*H*D)	16.5*31.5*9.4 inch (420mm*800mm*240mm)
	Weight	40Kg/88lb
	PV Connection Way	Terminals
	Display	Wireless & APP + LED
CERTIFICATION	Safety	UL 9540, CSA C22.2 No. 107.1, No. 330 / UL 1699B / UL 1741, SA, CRD-PCS/ MULTIMODE
	Grid	UL1741SB, IEEE1547, CSIP, IEEE 2030.5
	EMC	FCC Part 15 Class B

20. LIMITED WARRANTY

20.1 RESIDENTIAL BATTERY LIMITED WARRANTY

Midland Power Inc. is 100% Canadian-owned and staffed. Our Canadian support team works directly with owners and Qualified Electrical Professionals to assess warranty concerns safely and efficiently.

This Residential Hybrid Inverter Limited Warranty explains what Midland covers, how a claim is evaluated, and what to expect when a Covered Inverter needs warranty support.

WARRANTY PROVIDER	MIDLAND POWER INC.
PROVIDER ADDRESS	94 BROCKPORT DRIVE, TORONTO, ON M9W 7J8, CANADA
COVERED PRODUCT	M02588 CABIN 16KWH INDOOR HOME BACKUP BATTERY
TERRITORY	CANADA ONLY
NOMINAL ENERGY CAPACITY	16.0 KWH
DEFECT WARRANTY PERIOD	TEN (10) YEARS FROM THE ORIGINAL RETAIL PURCHASE DATE
INSTALLATION	STATIONARY; INDOOR INSTALLATION RECOMMENDED, OUTDOOR PERMITTED ONLY WHERE THE PRODUCT DOCUMENTATION ALLOWS AND ENVIRONMENTAL LIMITS ARE MET
MAXIMUM PARALLEL QUANTITY	UP TO NINE (9) SAME-MODEL COVERED INVERTERS, INSTALLED PER PRODUCT DOCUMENTATION
SUPPORTED APPLICATIONS	ONLY AS EXPRESSLY IDENTIFIED IN THE PRODUCT DOCUMENTATION
WARRANTY CLAIMS	WEB: WWW.MIDLANDPOWERINC.COM EMAIL: SUPPORT@MIDLANDPOWERINC.COM PHONE: 1-877-528-3772

This Warranty Schedule applies to the inverter identified above (the "Covered Inverter"). A different schedule may apply to another Midland-supported inverter model; where a product-specific schedule differs from the figures above, the product-specific schedule governs.

Ten-Year Warranty.
Midland Power Inc. ("Midland") warrants that the Covered Inverter will be free from defects in materials and workmanship for the Defect Warranty Period shown above, when installed, used, and maintained as described in Midland's product manuals and other technical information for the Covered Inverter (the "Product Documentation") and used in a "Supported Application." Supported Applications for the current Covered Inverter include solar generation, fully off-grid operation, whole-home or essential-load battery backup, grid charging, generator charging with automatic start and stop, charging batteries from PV, generator, or utility power, and time-of-use energy management, together with parallel operation up to the Maximum Parallel Quantity shown above — each only when installed and configured as described in the Product Documentation.

Remedies.
If the Covered Inverter fails to meet the warranty above, Midland will, at its sole discretion, repair it (using new or refurbished parts), replace it with an equivalent new or refurbished product, or issue a prorated credit toward an eligible Midland-supported replacement, which Midland may issue as a refund instead. An equivalent replacement may differ in appearance or design details but will provide substantially equivalent function. Prorated credit is based on the price paid for the Covered Inverter itself, excluding tax, installation, and accessories (the "Original Purchase Price"), reduced by 10% for each completed year since purchase, and will never exceed the Original Purchase Price. A repaired or replaced unit receives only the remaining unexpired portion of the original warranty period. Midland's standard remedy includes standard outbound ground shipping to a serviceable Canadian address, but excludes labour, service calls, travel, permits, disconnection, removal, packaging, return transportation, and reinstallation, though Midland may agree in writing to cover some of these for an individual claim without any obligation to do so for another.

What's Covered and Registration.
This warranty covers a Covered Inverter purchased new in Canada from a seller Midland recognized as authorized at the time of sale (an "Authorized Seller"), bearing its original and unaltered serial number, and identified in its Product Documentation as supported under a Midland warranty. To keep this warranty in effect, register the Covered Inverter with Midland within one year of purchase, or be ready to provide valid proof of purchase from an Authorized Seller at the time of any claim, along with the installation address, clear photographs of the Covered Inverter and connected equipment as installed, and your installer's contact information.

Installation and Operation Requirements.
The Covered Inverter must be installed and commissioned by a person holding all licences, certifications, and permits required to perform the work in the applicable province or territory (a "Qualified Electrical Professional"), in accordance with the Product Documentation, the approved system design, applicable laws and electrical or building codes, and applicable utility interconnection requirements. It may be connected only to batteries, PV modules, generators, and other equipment approved for the configuration used and, where applicable, only to a battery on Midland's approved compatibility list communicating as described in the Product Documentation. Grid export, off-grid operation, generator charging, parallel operation, and any third-party monitoring or control integration are covered only when configured and used as described in the Product Documentation and within its published limits. The Covered Inverter should be kept on current Midland-issued firmware where reasonably practical, as some fixes are only available through a firmware update. Internet connectivity is not a condition of this warranty.

General Exclusions.
This warranty does not cover a condition to the extent it results from: use outside a Supported Application, including business or commercial use (an applicable Midland Commercial Hybrid Inverter Limited Warranty may apply instead); improper system design, installation, or commissioning; work performed by someone who is not a Qualified Electrical Professional; incompatible or unapproved batteries, PV equipment, generators, or other connected equipment; parallel operation beyond the Maximum Parallel Quantity or not configured per the Product Documentation; unauthorized opening, modification, or firmware changes; operation outside published electrical, temperature, or environmental limits; improper storage or a failure to perform required maintenance; physical damage or mishandling; water, moisture, or corrosive exposure; fire, flood, lightning, surge, or another external event; utility, grid, or generator conditions outside normal operating parameters; a third-party program or control Midland has not approved; pests; or continued operation after a serious fault or safety warning; nor does it cover an altered, defaced, or removed serial number, or normal cosmetic wear or operating noise that does not affect safe operation. Each exclusion above applies only to the extent the excluded condition actually caused or contributed to the claimed defect or failure. Normal inverter behaviour — including derating, cycling, or a protective shutdown required to protect the unit or to comply with grid or safety requirements — is not a defect, and Midland does not guarantee any specific energy yield, efficiency, or export revenue.

Other Warranties.
This is the only express warranty Midland makes for the Covered Inverter. Any other warranty, remedy, or condition — oral, written, statutory, express, or implied, including any warranty of merchantability, fitness for a particular purpose, or against latent or hidden defects — is disclaimed to the fullest extent the law allows. Where such a warranty cannot be disclaimed, Midland limits its duration and remedy to those described in this document. This warranty gives you specific legal rights; you may have other rights that vary by province, and nothing here reduces those rights.

Transfer and Relocation.
This warranty may be transferred once, from the original purchaser to one subsequent residential owner who uses the Covered Inverter primarily for personal or household purposes, provides proof of ownership and the original proof of purchase, and registers the transfer with Midland before making a claim; a transfer does not extend the warranty period. The Covered Inverter may be relocated within Canada without Midland's prior approval, provided removal, transport, and reinstallation are performed or supervised by a Qualified Electrical Professional. This warranty does not cover damage caused by improper removal, transport, or reinstallation.

Returns and Inspection.
Contact Midland for written instructions before returning a Covered Inverter; do not return a product without authorization. You are responsible for authorized return-transportation costs, and ownership of a returned product transfers to Midland once a replacement or credit is provided.

Losses Outside This Warranty.
This warranty provides only the remedies described above. It does not cover indirect, incidental, or consequential losses, including lost use, lost electricity savings, increased utility charges, generator fuel, temporary power, lost data, lost income or profit, business interruption, damage to other products or equipment, or damage to buildings or other property. Except as required by applicable provincial law, Midland's total liability under this warranty will not exceed the Original Purchase Price of the Covered Inverter.

Not for Life-Support or Safety-Critical Use.
The Covered Inverter is not intended as the sole or guaranteed power source for life-support systems, medical equipment, or another use where a power interruption could reasonably be expected to cause death, injury, or catastrophic property damage.

Separate Battery and Inverter Warranties.
A Midland battery connected to the Covered Inverter is covered under its own applicable Midland battery warranty, not this one, and a defect in one product does not by itself establish a defect in the other.

How to Make a Claim.
Contact Midland before arranging warranty work or returning any product; a seller, installer, or electrician may assist with a claim but cannot bind Midland to a remedy. Be ready to provide your contact information, the product name, model, and serial number, proof of purchase or registration, the installation address and photographs, your installer's information, permit and inspection records where applicable, a description of the problem, and any fault codes or operating information; Midland may also request an electrician's diagnostic report. You are responsible for retaining your installation, commissioning, and service records, as Midland may ask for them to verify a claim. If the Covered Inverter shows smoke, fire, excessive heat, or another immediate hazard, keep people away, contact emergency services if appropriate, have a Qualified Electrical Professional make the system safe, and contact Midland once the hazard has been addressed. Before starting a legal proceeding relating to this warranty, you agree to give Midland written notice of the claim and a reasonable opportunity to resolve it.

Governing Law.
This warranty is governed by the laws of the Province of Ontario and the federal laws of Canada applicable in Ontario, without regard to conflict-of-law rules, except that nothing here limits any right or remedy available to you under the Consumer Protection Act (or its equivalent) or the Sale of Goods Act of your home province.

Quebec Notice.
For consumer sales in Quebec: Midland does not guarantee that replacement parts will remain available for any particular period, though it may still supply one as a remedy under this warranty; Midland does not provide on-site repair labour, and you are responsible for arranging a Qualified Electrical Professional; and applicable maintenance and repair information is available from Midland in French and English, though work involving high voltage or internal components is intended for a Qualified Electrical Professional only.

Changes to This Warranty.
No retailer, dealer, installer, electrician, or other person may change this warranty or make a warranty commitment on Midland's behalf; a change is effective only when made in writing by an authorized representative of Midland Power Inc.

Support Outside This Warranty.
Midland may choose to provide technical, financial, or other support beyond the coverage described in this warranty. Support provided as a goodwill accommodation in one case does not amend this warranty or create an obligation to provide the same assistance in another case.

General Provisions.
If any provision of this warranty is held invalid or unenforceable, the remaining provisions remain in full force and effect. Midland is not liable for a delay or failure to perform its obligations under this warranty to the extent caused by a natural disaster, act of war or terrorism, labour disruption, governmental action, pandemic, or other event beyond Midland's reasonable control.

20.2 COMMERCIAL BATTERY LIMITED WARRANTY

Midland Power Inc. is 100% Canadian-owned and staffed. Our Canadian support team works directly with commercial end users and Qualified Electrical Professionals to evaluate warranty claims efficiently.

This Commercial Hybrid Inverter Limited Warranty applies to a Covered Inverter purchased or used primarily for business, commercial, agricultural, institutional, rental, development, or other income-producing purposes, by a person or entity purchasing on that basis (a "Commercial Purchaser"), including a corporation, partnership, sole proprietor, farm, builder or developer, landlord or rental-property operator, condominium corporation, institution, or government entity.

WARRANTY PROVIDER	MIDLAND POWER INC.
PROVIDER ADDRESS	94 BROCKPORT DRIVE, TORONTO, ON M9W 7J8, CANADA
COVERED PRODUCT	M02671 CABIN 16KWH INDOOR HOME BACKUP BATTERY
TERRITORY	CANADA ONLY
NOMINAL ENERGY CAPACITY	16.0 KWH
DEFECT WARRANTY PERIOD	TEN (10) YEARS FROM THE ORIGINAL RETAIL PURCHASE DATE
INSTALLATION	STATIONARY; INDOOR INSTALLATION RECOMMENDED, OUTDOOR PERMITTED ONLY WHERE THE PRODUCT DOCUMENTATION ALLOWS AND ENVIRONMENTAL LIMITS ARE MET
MAXIMUM PARALLEL QUANTITY	UP TO NINE (9) SAME-MODEL COVERED INVERTERS, INSTALLED PER PRODUCT DOCUMENTATION
SUPPORTED APPLICATIONS	ONLY AS EXPRESSLY IDENTIFIED IN THE PRODUCT DOCUMENTATION
WARRANTY CLAIMS	WEB: WWW.MIDLANDPOWERINC.COM EMAIL: SUPPORT@MIDLANDPOWERINC.COM PHONE: 1-877-528-3772

This Warranty Schedule applies to the inverter identified above (the "Covered Inverter"). A different schedule may apply to another Midland-supported inverter model; where a product-specific schedule differs from the figures above, the product-specific schedule governs.

Ten-Year Commercial Warranty.

Midland Power Inc. ("Midland") warrants that the Covered Inverter will be free from defects in materials and workmanship for the Commercial Warranty Period shown above, when installed, used, and maintained as described in Midland's product manuals and other technical information for the Covered Inverter (the "Product Documentation") and used in a Supported Application, together with parallel operation up to the Maximum Parallel Quantity shown above where configured as described in the Product Documentation.

Remedies.
If the Covered Inverter fails to meet the warranty above, Midland will, at its sole discretion, repair it (using new or refurbished parts), replace it with an equivalent new or refurbished product, or issue a prorated credit toward an eligible Midland-supported replacement, which Midland may issue as a refund instead. An equivalent replacement may differ in appearance or design details but will provide substantially equivalent function. Prorated credit is based on the price paid for the Covered Inverter itself, excluding tax, installation, and accessories (the "Original Purchase Price"), reduced by 10% for each completed year since purchase, and will never exceed the Original Purchase Price. A repaired or replaced unit receives only the remaining unexpired portion of the original warranty period. Midland's standard remedy includes standard outbound ground shipping to a serviceable Canadian address, but excludes labour, service calls, travel, permits, disconnection, removal, packaging, return transportation, and reinstallation, though Midland may agree in writing to cover some of these for an individual claim without any obligation to do so for another.

What's Covered and Registration.
This warranty covers a Covered Inverter purchased new in Canada from a seller Midland recognized as authorized at the time of sale (an "Authorized Seller"), bearing its original and unaltered serial number, and identified in its Product Documentation as supported under a Midland warranty. To keep this warranty in effect, register the Covered Inverter with Midland within one year of purchase, or be ready to provide valid proof of purchase from an Authorized Seller at the time of any claim, along with the installation address, project documentation, clear photographs of the Covered Inverter as installed, and your installer's contact information.

Installation and Operation Requirements.
The Covered Inverter must be installed and commissioned by a person holding all licences, certifications, and permits required to perform the work in the applicable province or territory (a "Qualified Electrical Professional"), in accordance with the Product Documentation, the approved project design, applicable laws and electrical or building codes, and applicable utility interconnection requirements. It may be connected only to batteries, PV modules, generators, and other equipment

approved for the configuration used, and operated only within the duty cycle and application described in the approved project design. The Covered Inverter should be kept on current Midland-issued firmware where reasonably practical, as some fixes are only available through a firmware update. Internet connectivity is not a condition of this warranty.

General Exclusions.
This warranty does not cover a condition to the extent it results from: use beyond the Supported Application or the approved project design; improper system design, installation, or commissioning; work performed by someone who is not a Qualified Electrical Professional; incompatible or unapproved batteries, PV equipment, generators, or other connected equipment; parallel operation beyond the Maximum Parallel Quantity or not configured per the Product Documentation; unauthorized opening, modification, or firmware changes; operation outside published electrical, temperature, or environmental limits; improper storage or a failure to perform required maintenance; physical damage or mishandling; water, moisture, or corrosive exposure; fire, flood, lightning, surge, or another external event; utility, grid, or generator conditions outside normal operating parameters; a third-party program or control Midland has not approved; pests; or continued operation after a serious fault or safety warning; nor does it cover an altered, defaced, or removed serial number, or normal cosmetic wear or operating noise that does not affect safe operation. Each exclusion above applies only to the extent the excluded condition actually caused or contributed to the claimed defect or failure. Normal inverter behaviour — including derating, cycling, or a protective shutdown required to protect the unit or to comply with grid or safety requirements — is not a defect, and Midland does not guarantee any specific energy yield, efficiency, or export revenue.

Other Warranties.
This is the only express warranty Midland makes for the Covered Inverter. Any other warranty, remedy, or condition — oral, written, statutory, express, or implied, including any warranty of merchantability, fitness for a particular purpose, or against latent or hidden defects — is disclaimed to the fullest extent the law allows.

Transfer and Relocation.
This warranty may be transferred to a subsequent owner or operator of the same installation, provided the transferee registers the transfer with Midland before making a claim and provides proof of ownership and the original proof of purchase; a transfer does not extend the warranty period. The Covered Inverter may be relocated within Canada without Midland's prior approval, provided removal, transport, and reinstallation are performed or supervised by a Qualified Electrical Professional. This warranty does not cover damage caused by improper removal, transport, or reinstallation.

Returns and Inspection. Contact Midland for written instructions before returning a Covered Inverter; do not return a product without authorization. The Commercial Purchaser is responsible for authorized return-transportation costs, and ownership of a returned product transfers to Midland once a replacement or credit is provided.

Commercial Losses and Maximum Liability.
This warranty provides only the remedies described above. It does not cover indirect, incidental, special, or consequential losses, including lost use, lost revenue or profit, downtime, business interruption, financing costs, penalties, damage to other products or equipment, or damage to buildings or other property. Except as required by applicable law, Midland's total liability under this warranty, and in connection with the Covered Inverter generally, will not exceed the Original Purchase Price of the Covered Inverter.

Not for Life-Support or Safety-Critical Use.
The Covered Inverter is not intended as the sole or guaranteed power source for life-support systems, medical equipment, or another use where a power interruption could reasonably be expected to cause death, injury, or catastrophic property damage.

Separate Battery and Inverter Warranties.
A Midland battery connected to the Covered Inverter is covered under its own applicable Midland battery warranty, not this one, and a defect in one product does not by itself establish a defect in the other.

How to Make a Claim.
Contact Midland before arranging warranty work or returning any product; a seller, installer, or consultant may assist with a claim but cannot bind Midland to a remedy. Be ready to provide the Commercial Purchaser's legal name and contact information, the product name, model, and serial number, proof of purchase or registration, project drawings and installation records, applicable permits, inspections, and utility approvals, a description of the problem, and any fault codes or operating information; Midland may also request an electrician's diagnostic report. The Commercial Purchaser is responsible for retaining installation, commissioning, and service records, as Midland may ask for them to verify a claim. If the Covered Inverter shows smoke, fire, excessive heat, or another immediate hazard, keep personnel away, follow the site emergency plan, contact emergency services if appropriate, have a Qualified Electrical Professional make the system safe, and contact Midland once the hazard has been addressed. Before starting a legal proceeding relating to this warranty, the Commercial Purchaser agrees to give Midland written notice of the claim and a reasonable opportunity to resolve it.

Governing Law and Dispute Resolution.

This warranty is governed by the laws of the Province of Ontario and the federal laws of Canada applicable in Ontario, without regard to conflict-of-law rules. Any dispute arising out of or relating to this warranty will be finally resolved by binding arbitration before a single arbitrator seated in Toronto, Ontario, conducted in English under the Arbitration Act, 1991 (Ontario) [Midland's counsel to confirm the specific administering institution and procedural rules]; judgment on the award may be entered in any court of competent jurisdiction, and each party bears its own costs of the arbitration unless the arbitrator directs otherwise. This clause applies only to a Commercial Purchaser and only to the extent enforceable under applicable law. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this warranty.

Changes to This Warranty.
No dealer, installer, consultant, electrician, or other person may change this warranty or make a warranty commitment on Midland's behalf; a change is effective only when made in writing by an authorized representative of Midland Power Inc.

Support Outside This Warranty.
Midland may choose to provide technical, financial, or other support beyond the coverage described in this warranty. Support provided as a goodwill accommodation in one case does not amend this warranty or create an obligation to provide the same assistance in another case.

General Provisions.
If any provision of this warranty is held invalid or unenforceable, the remaining provisions remain in full force and effect. Midland is not liable for a delay or failure to perform its obligations under this warranty to the extent caused by a natural disaster, act of war or terrorism, labour disruption, governmental

Enjoy!

Be sure to check www.midlandpowerinc.com
for updates regarding your product.



Customer Service

Online: www.midlandpowerinc.com

Toll Free: 1-877-528-3772

M02671
Version: 1.0

11.4 kW Hybrid Inverter

MANUAL

