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Anker SOLIX Solarbank 4 E5000 Pro
Anker SOLIX BP5000 Expansion Battery

# Disclaimer

Please read and understand all safety instructions, installation guide, and other accompanied documents before installing or using the product. Failure to follow the instructions may result in electric shock, equipment damage, or personal injury. Please follow the instructions and install this equipment with caution for your safety and the normal operation of the equipment. The manufacturer is not liable for damage, injury, or loss resulting from incorrect installation, unauthorised modification, misuse, operation in unsuitable environments, or failure to observe safety precautions.

# About This Guide

This guide describes Anker SOLIX Solarbank 4 E5000 Pro in terms of unboxing, product overview, installation, electrical connections, button and light explanation, customer, and safety guidelines.

· One Anker SOLIX Solarbank 4 E5000 Pro can support up to five Anker SOLIX Expansion Batteries.

· Anker SOLIX Solarbank 4 E5000 Pro can be used with Anker SOLIX Expansion Battery BP5000 / BP2700 / BP1600.

· Anker SOLIX Solarbank 4 E5000 Pro can be used with Anker SOLIX Smart Meter, Anker SOLIX Smart Plug and some third-party devices, which is updated periodically.

# Unboxing

## Check Before Installation

### Inspect the Outer Packaging

Before unpacking the equipment, check the outer packaging for damage, such as holes and cracks, and review the equipment model number. If any damage is found or the model is not what you requested, do not unpack the equipment and contact Anker customer service as soon as possible.

### Verify Deliverables

After unpacking the equipment, check that the deliverables are intact and complete, and free from any obvious damage. If any item is missing or damaged, contact Anker Solix customer service.

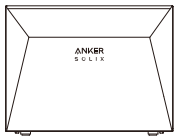
### Identify Your Model

The nameplate on the bottom of the Solarbank lists multiple model numbers. Refer to the table below and mark the corresponding model number.

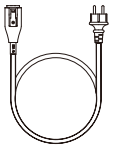
| Model Number | Region | AC Output Power | Grid Connection Method |
|---|---|---|---|
| AE103SZ1 | Switzerland | 600 W | Via Schuko Socket |
| AE1038Z1 | Italy | 790 W | |
| AE1033Z1-20 | Germany / Austria / France / Belgium / Netherlands / Norway / Spain | 800 W | |
| AE1033Z1 | | 2500 W | Via Wieland Socket or Main Panel |

***Note**: Ensure that the rated output power of the model marked on the nameplate matches the power value declared during grid registration. If your Solarbank was initially grid-connected via a Schuko socket and you marked the corresponding model number, but is later rewired to a Wieland socket or hardwired to the main panel (by a qualified electrician), cross out the original mark and check the box for **AE1033Z1** instead.

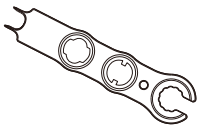
## In the Solarbank Box



Anker SOLIX Solarbank 4 E5000 Pro



AC Cable (3m)



Wrench for Removing PV Connectors

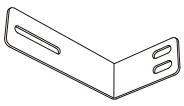


Documents

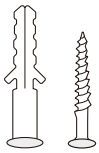
### Wall Mount Kit



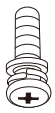

Wall Mount Fitting for Solarbank ×2



Wall Mount Fitting for Expansion Battery ×2

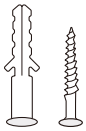


Expansion Screw (M6 50 mm) ×4

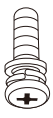


Screw (M5 10 mm) ×4

### Spare Parts

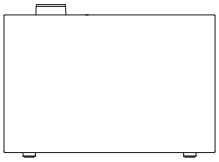


Expansion Screw (M6 50 mm) ×2



Screw (M5 10 mm) ×2

## In the Expansion Battery Box

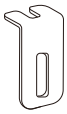


Anker SOLIX BP5000 Expansion Battery



Documents

### Interlocking Kit

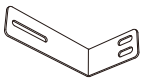


Fixed Bracket ×2



Screw (M5 10 mm) ×2

### Wall Mount Kit



Wall Mount Fitting for Expansion Battery×2



Expansion Screw (M6 50 mm) ×2

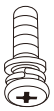


Screw (M5 10 mm) ×2

### Spare Parts



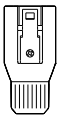
Expansion Screw (M6 50 mm) ×2



Screw (M5 10 mm) ×2

## Optional Accessories

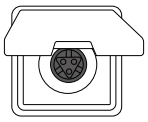
The following accessories can be ordered separately.



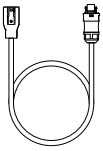
AC Connector



COM Connector



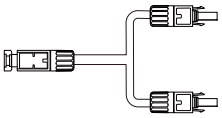
Wieland Socket



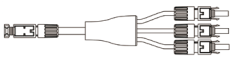
AC Cable with Wieland Plug



Solar Panel Extension Cable



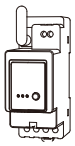
Y Branch Connector



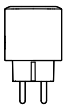
3-in-1 PV Adapter Cable



Smart Meter Gen 2



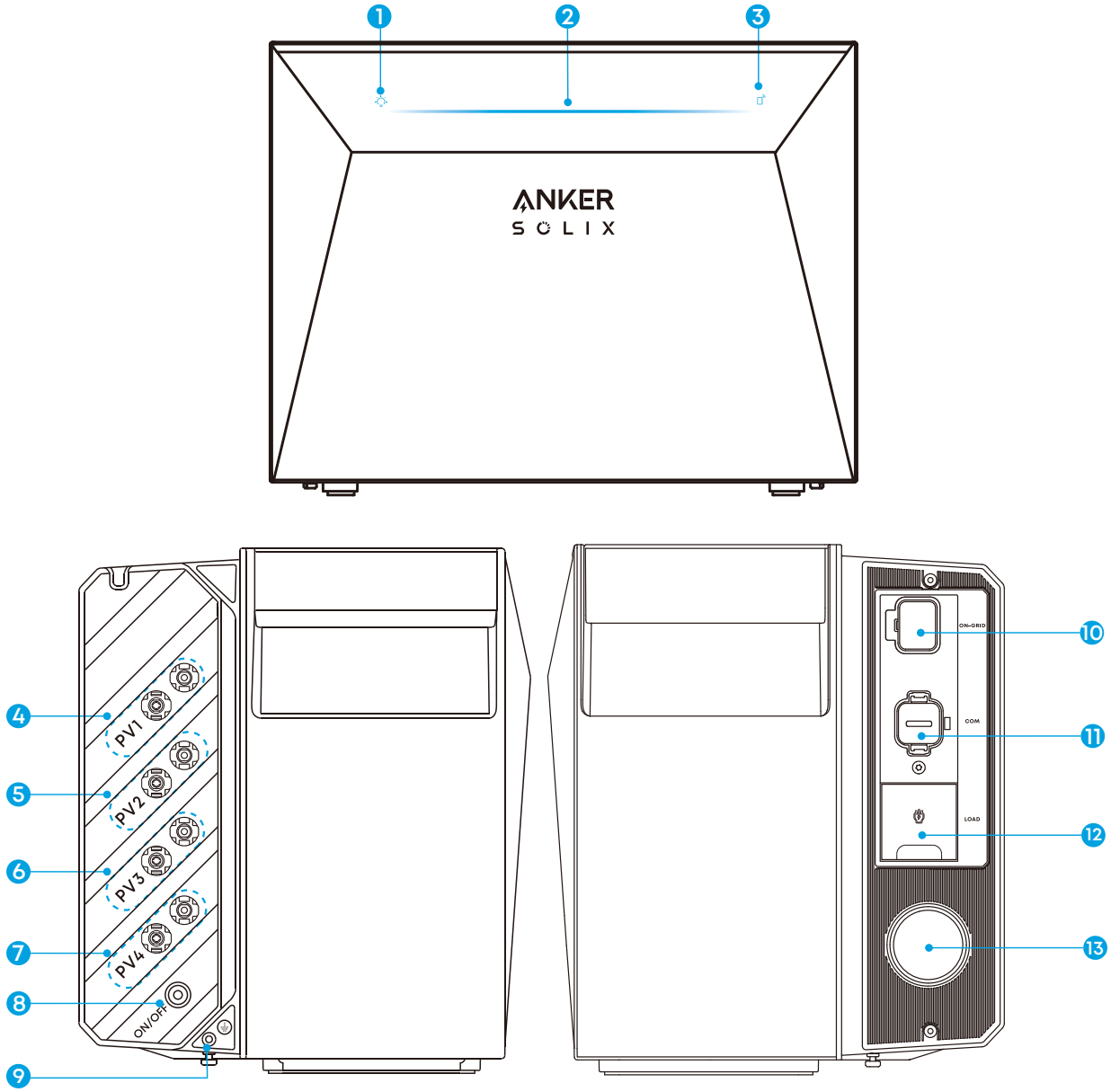
Smart Meter



Smart Plug (Gen 2)

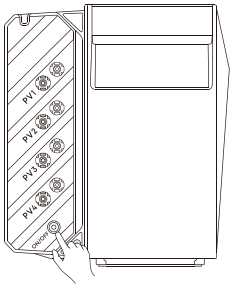
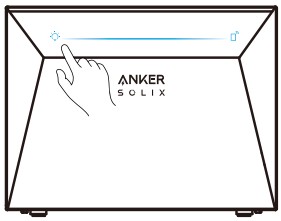
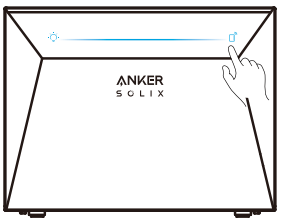
# Product Overview

## At a Glance



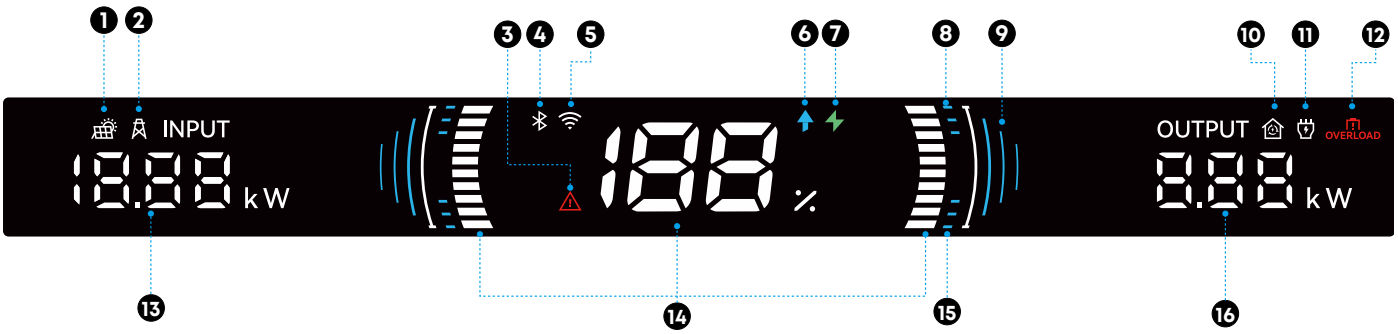

1. Screen On / Off Button
2. Working Status LED
3. IoT Button
4. PV Connector Ports for PV Input 1
5. PV Connector Ports for PV Input 2
6. PV Connector Ports for PV Input 3
7. PV Connector Ports for PV Input 4
8. Power Button
9. Ground Screw Hole
10. On-Grid Port
11. Communication Port
12. Load Port
13. Pressure Relief Valve (This valve is a safety device. Do not operate or damage it.)

## Button Controls

| Button | Action | Function |
|---|---|---|
|  | Press for 2 seconds. | Turn Solarbank on / off. |
|  | Press once. | Turn the screen on or off. |
|  | Press once. | Enable Internet connection. |
| | Press for 2 seconds. | Disable Internet connection. |
| | Press for 7 seconds. | Reset Bluetooth and Wi-Fi. |

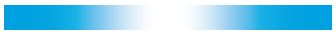
## Screen Guide

The display may vary by firmware version.



| Indicator | Description |
| --- | --- |
| 1 | **Input from PV Panels**<br>Displays the power drawn from the PV Panels. |
| 2 | **Input from Grid**<br>Displays the power drawn from the grid. |
| 3 | **General Fault Alert**<br>Indicates a fault. Check the Anker app for details. |
| 4 | **Bluetooth Status**<br>Flashing: Connecting to Bluetooth.<br>Solid: Connected to Bluetooth. |
| 5 | **Wi-Fi Status**<br>Flashing: Connecting to Wi-Fi.<br>Solid: Connected to Wi-Fi. |
| 6 | **Discharging Status**<br>Indicates that the battery is discharging. |
| 7 | **Charging Status**<br>Indicates that the battery is charging. |
| 8 | **Charge Upper Limit**<br>Displays the configured upper limit for charging. |
| 9 | **Smart Mode**<br>Indicates that smart mode is enabled. |
| 10 | **Output to Grid**<br>Indicates power export to the grid. |
| 11 | **Output to Loads**<br>Indicates power supply to home loads. |
| 12 | **Overload Alert**<br>Disconnect some devices to reduce the load. |
| 13 | **Total Input Power**<br>Displays the total power currently flowing into the system. |
| 14 | **Battery SOC**<br>Displays the current battery state of charge. |
| 15 | **Discharge Lower Limit**<br>Displays the configured lower limit for discharging. |
| 16 | **Total Output Power**<br>Displays the total power delivered to connected loads. |

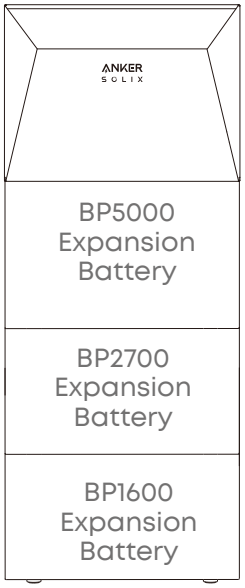
## LED Guide

| LED | Status |
| --- | --- |
|  | **Powered On**<br>The blue LED illuminates from both ends toward the center. |
|  | **Powered Off**<br>LED fades from both ends toward the center. |
|  | **Connecting to the Network**<br>LED flashes. |
|  | **Connected to the Network**<br>LED turns solid. |
|  | **Charging**<br>LED spreads outward from the center. |
|  | **Discharging**<br>LED turns solid. |
|  | **Switching to Smart Mode**<br>Blue LED changes to a blue-to-green gradient. |
|  | **Switching to Non-Smart Mode**<br>The blue-to-green gradient LED turns blue. |
|  | **Firmware Updating or Self-Testing**<br>LED runs from one end to the other. |
|  | **Malfunction**<br>LED flashes red. Check the Anker app for details. |

# Pre-Installation

## Determine the Stacking Order

When different models of expansion batteries are used together, stack them in the order BP1600 to BP2700 to BP5000 from bottom to top for maximum charging capacity.

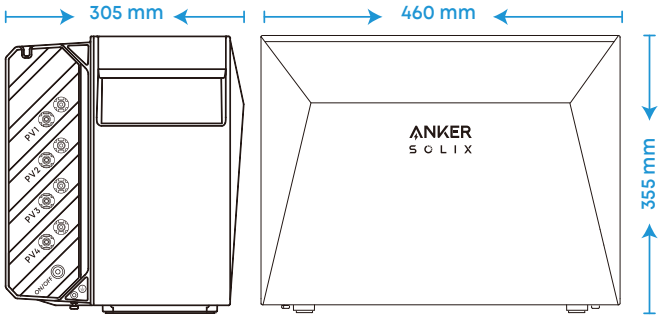


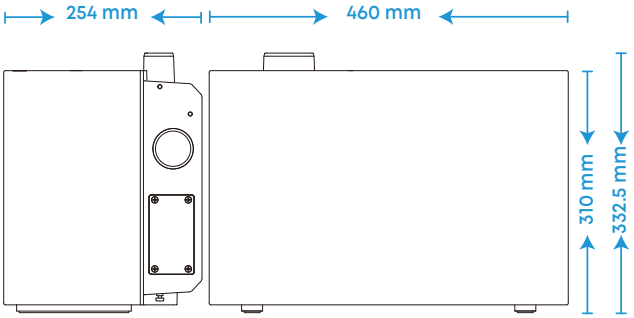

## Select an Installation Site

### Equipment Dimensions

Solarbank: 460 (W) × 305 (D) × 355 (H) mm

Expansion Battery: 460 (W) × 254 (D) × 332.5 (H) mm

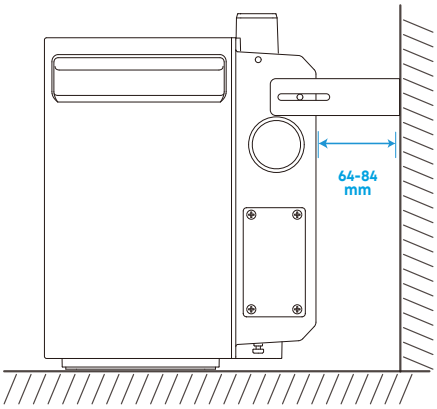


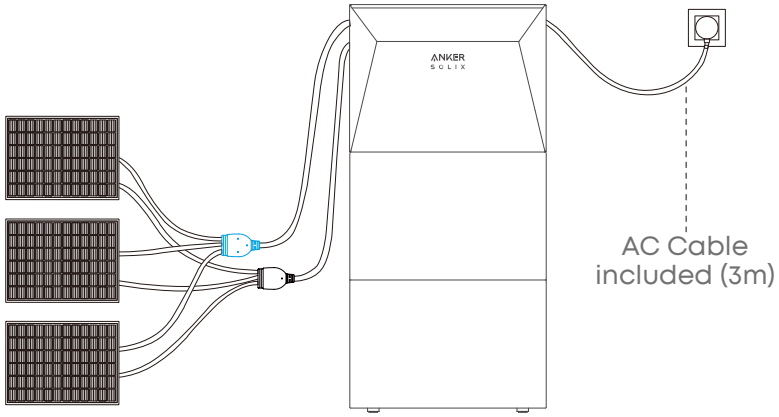




### Environmental Requirements

- Do not place the modules near an area exposed to direct sunlight, fire, or explosive materials.
- Ensure sufficient clearance around the modules for heat dissipation.
- Ensure the site is protected from potential hazards such as floods.

· The maximum operating altitude is 4,000 m.
· Within Wi-Fi coverage
· Ensure the AC Cable (3m) can reach the Solarbank
· Ensure easy connection to PV panels
· Maintain clearance from wall to bottom unit:
  · BP5000: 64–84 mm
  · BP2700 / BP1600: 85–105 mm



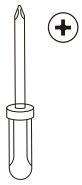




## Tools Not Supplied

The following tools are not included in this package. Please make sure they are ready before installation and electrical connections.



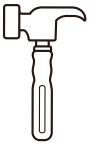
Pen



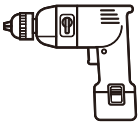
Phillips Screwdriver
(PH1 and PH2)



Insulating Gloves



Hammer



Power Drill
(Drill Bit: 8 mm)

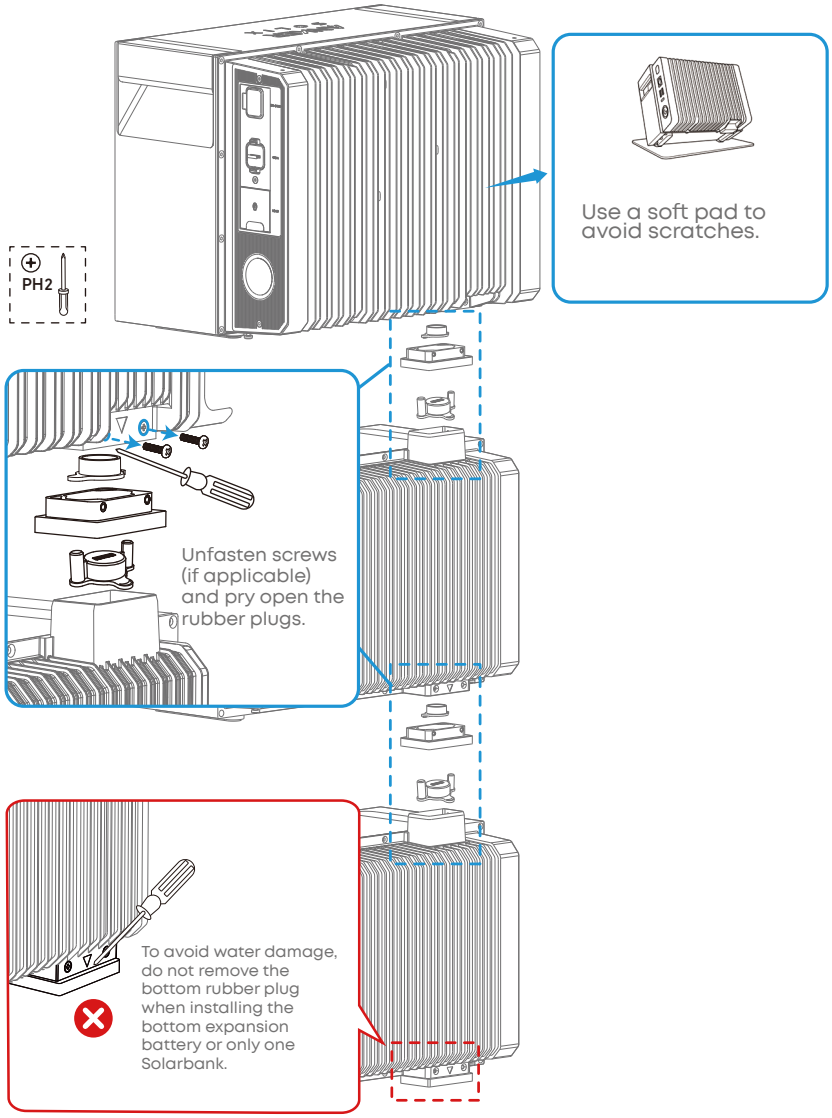
# Installation

## Precautions

· The following steps describe how to install one Solarbank and two expansion batteries (BP5000) as an example.

· Ensure Solarbank is off during installation.

## Step 1. Remove Rubber Plugs



## Step 2. Install Expansion Batteries

Anker SOLIX Solarbank 4 E5000 Pro is compatible with Expansion Battery BP5000 / BP2700 / BP1600. For wall-mounting configurations by different Expansion Battery models and quantities, refer to the table and illustrations below.

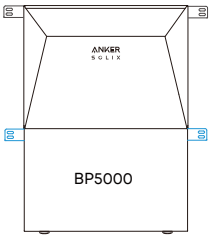
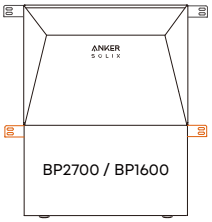
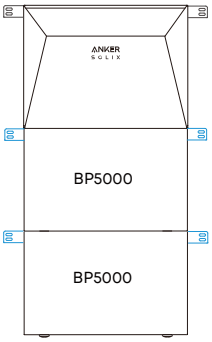
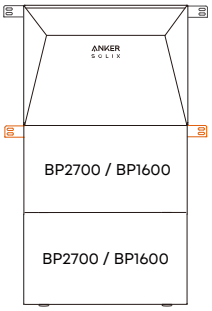
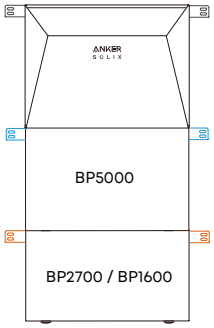
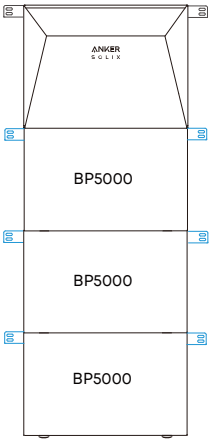
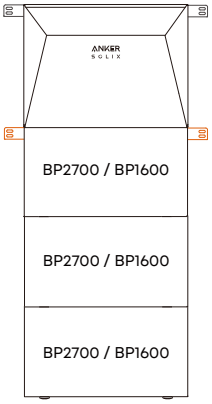
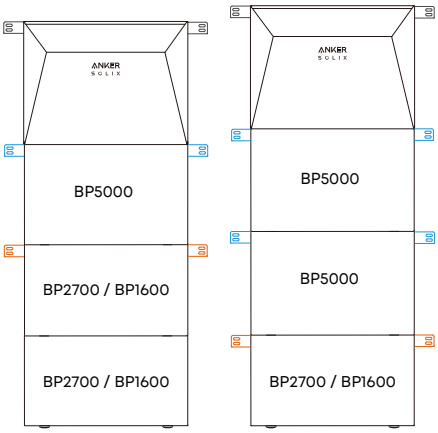
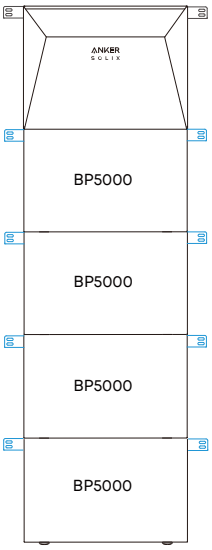
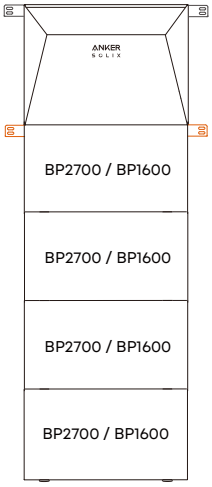
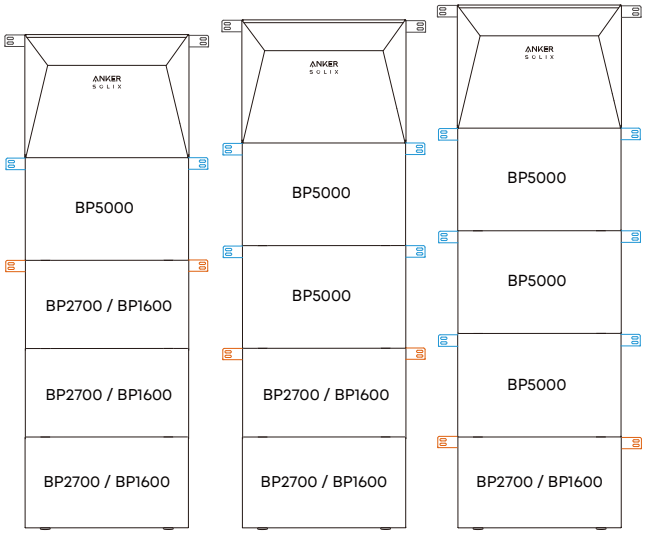
| Models of Expansion Batteries | Application of Wall Mount Fittings |
|---|---|
| Only BP5000 | Attach the **wall mount fittings**[1] to every expansion battery. |
| Only BP2700 or BP1600 | Attach the **wall mount fittings**[2] to the first expansion battery under Solarbank. Extra fittings are not needed for other expansion batteries. |
| BP5000+ BP2700 or BP1600 | Attach the **wall mount fittings**[1] to every BP5000 Expansion Battery.<br>Attach the **wall mount fittings**[2] to the first expansion battery under BP5000 Expansion Battery. |

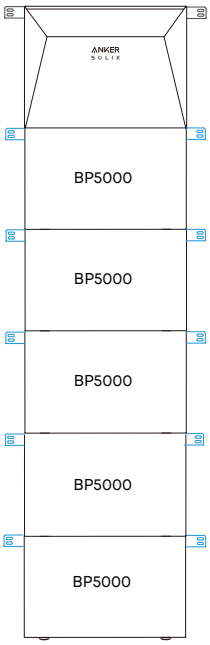
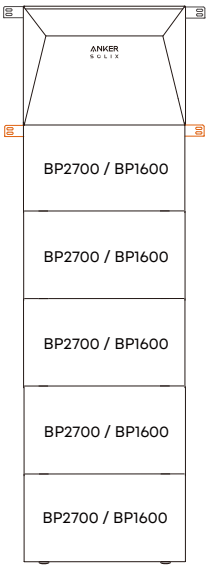
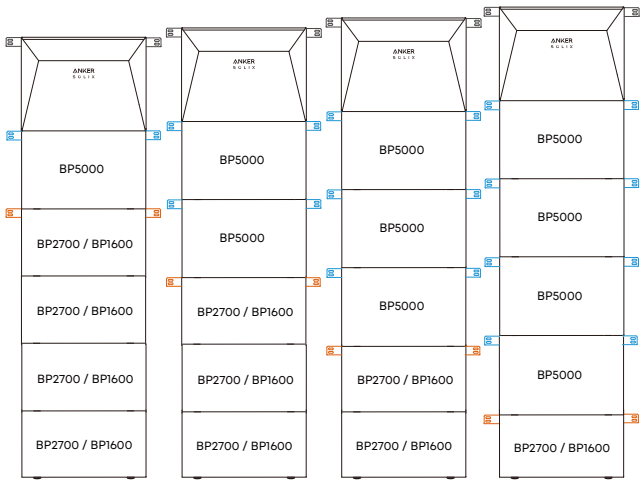
[1] Fittings included with BP5000 Expansion Battery

[2] Fittings included with Solarbank 4 E5000 Pro

Fittings in Blue: included with BP5000 Expansion Battery

Fittings in Orange: included with Solarbank 4 E5000 Pro

| No. Of Expansion Batteries | Only BP5000 | Only BP2700 or BP1600 | BP5000+ BP2700 orBP1600 |
|---|---|---|---|
| 1 |  |  | |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |

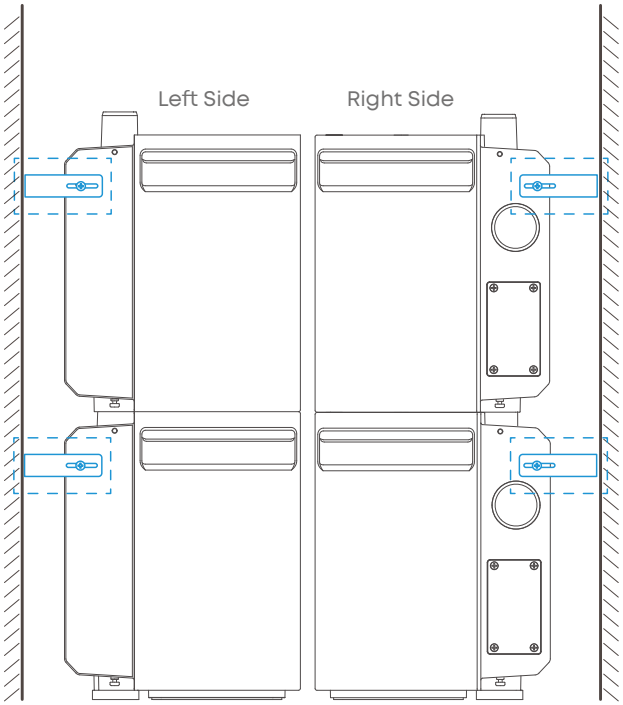
| | | | |
|---|---|---|---|
| 5 |  |  |  |

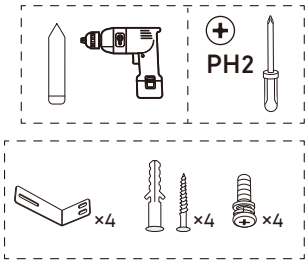
## To install Expansion Batteries

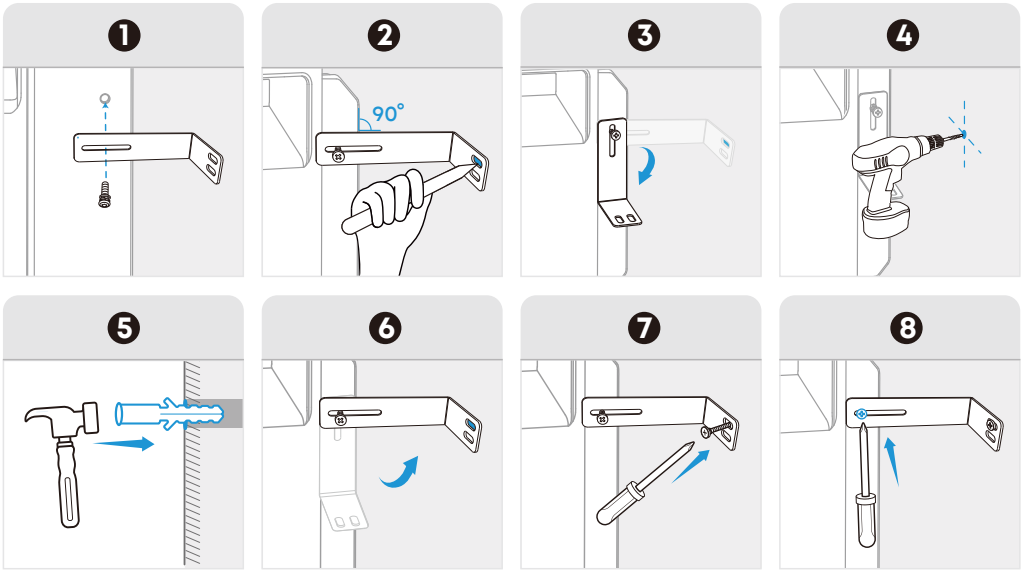
· Stack the expansion batteries in sequence by inserting the two corresponding ports into each other.

· After stacking each expansion battery, attach the wall mount fittings to both sides of the unit to secure it.

1. Partially tighten the short screw.
2. Mark a pilot hole.
3. Rotate the fitting down.
4. Drill the marked hole.
5. Insert the anchor.
6. Rotate the fitting back up.
7. Tighten the long screw.
8. Tighten the short screw.



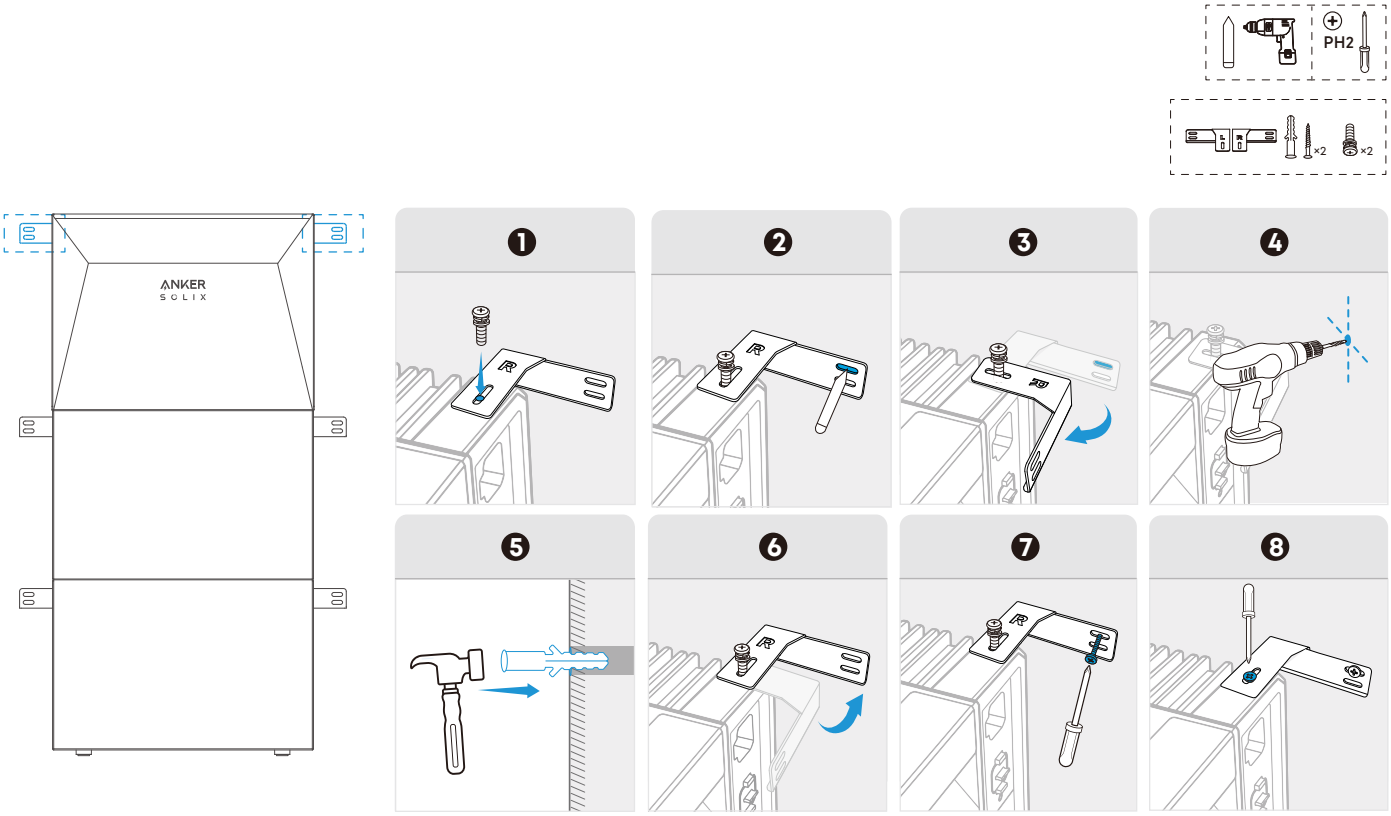




## Step 3. Install the Solarbank

· Stack Solarbank at the top by inserting the two corresponding ports into each other.

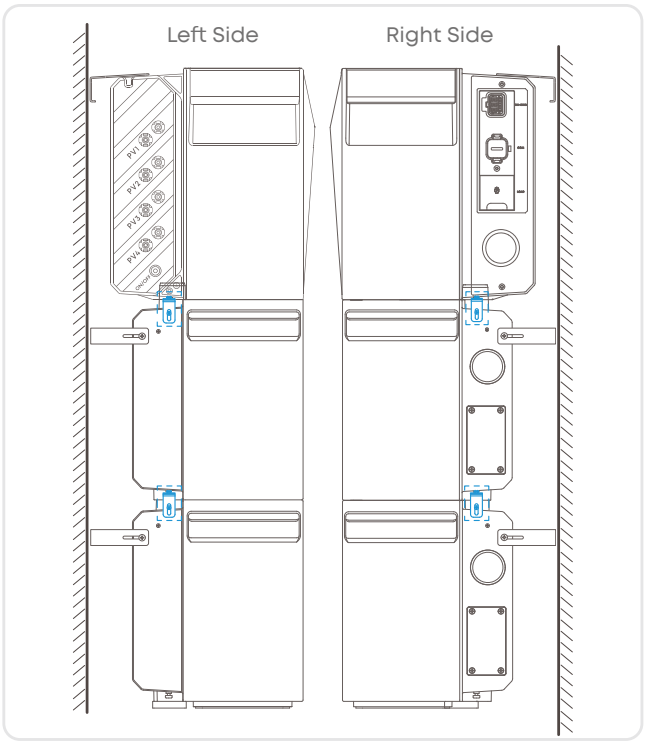
· Attach the wall mount fittings to both sides of the Solarbank.

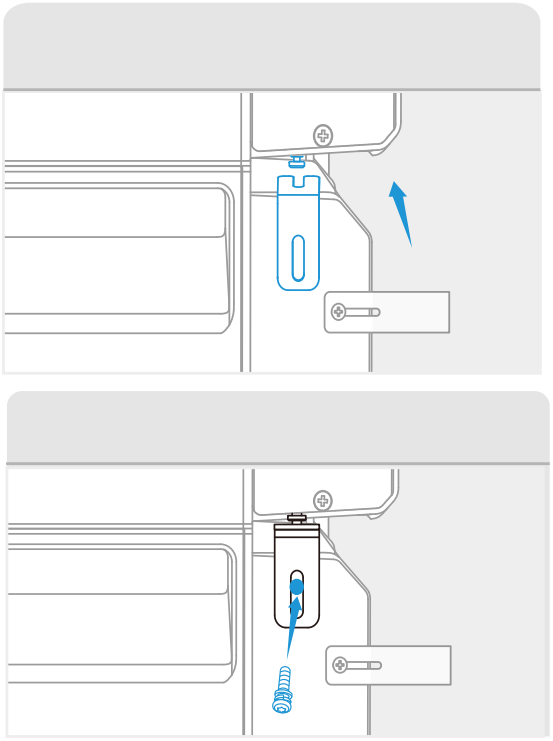
1. Partially tighten the short screw.
2. Mark a pilot hole.
3. Rotate the fitting outwards.
4. Drill the marked hole.
5. Insert the anchor.
6. Rotate the fitting back.
7. Tighten the long screw.
8. Tighten the short screw.




## Step 4. Install the Interlocking Kit

1. Snap a fixed bracket in place.
2. Tighten the screw.



# Electrical Connections

## Precautions

· Ensure Solarbank is off during wiring.

· Do not use or turn on Solarbank after it has come into contact with water.

## Connect to the Ground

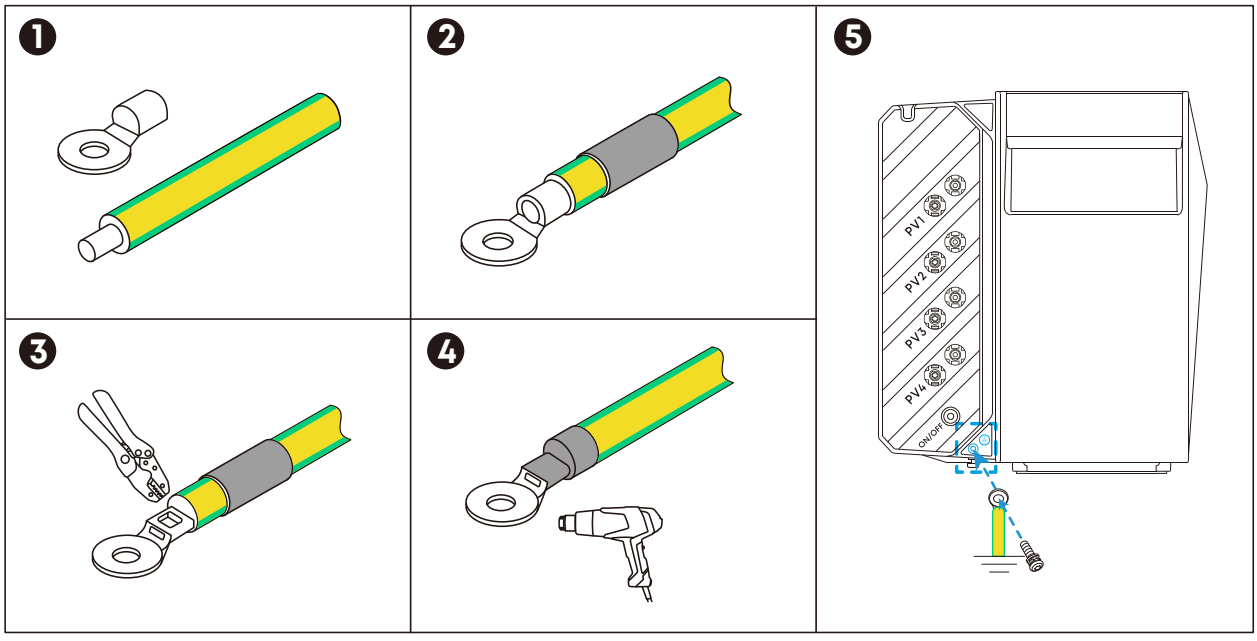
⚠ Solarbank must be connected to the external ground point, otherwise there is a risk of electric shock.

The following tools and supplies are not included in the package. Ensure that you have them ready before proceeding with the electrical connections.

| Required supplies | Specifications |
|---|---|
| GND cable | 2.5 mm², yellow/green |
| Ring terminal | Suitable for the 2.5 mm² GND cable and the M5 screw |
| Heat shrink tubing | Caliber: 8 mm<br>Length: 25 mm |
| Heat gun | / |
| Phillips screwdriver | PH2 |

**To connect Solarbank to the external ground point, follow the steps below.**

1. Strip the insulation layer of the GND cable.
2. Insert a heat shrink tubing and a ring terminal into the GND cable.
3. Crimp the ring terminal onto the GND cable using a crimper.
4. Wrap the wire crimping area with the heat shrink tubing using a heat gun.
5. Loosen the pre-installed screw and use it to secure the GND cable.



# Connect to PV Modules

⚠ **Important Safety Notice**

**PV Cable Requirements**

**Recommended PV Cables (Sold Separately):**

· Anker SOLIX Solar Panel Extension Cable

· Anker SOLIX Y Branch Connector

· Anker SOLIX 3-in-1 PV Adapter Cable

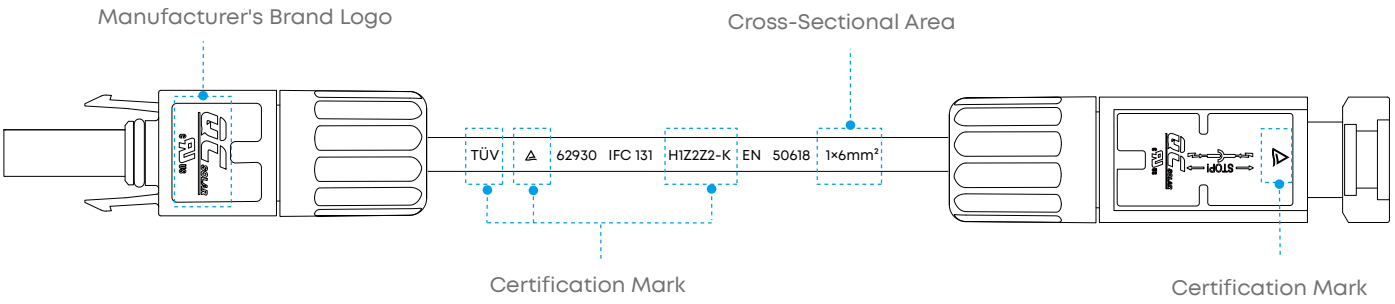
**CAUTION:** The PV cables used to connect PV modules to your Solarbank **MUST** meet the requirements below. Failure to do so may result in safety hazards or equipment damage.

| Item | Requirement |
|---|---|
| Certification | **Cable Certification:**<br>TÜV (IEC 62930), EN 50618, UL 4703, CE certified (At Least One); RoHS/REACH<br>**Connector Certification:**<br>IEC 62852, EN 50521, UL 6703 (At Least One)<br>*Uncertified cables or connectors are not permitted. |
| Conductor Material | Tinned copper / Bare copper<br>*Any other materials are not permitted. |
| Conductor Cross-Sectional Area | Select the cross-sectional area based on the rated current passing through the cable:<br>4 $mm^2$ (rated current ≤25 A)<br>6 $mm^2$ (rated current 25–36 A) |
| Insulation Material | XLPO (cross-linked polyolefin)<br>XLPE (cross-linked polyethylene) |
| Weather Resistance | **IP Rating:** IP67 or higher; IP65 (Only in sheltered installation environments)<br>**Operating Temperature:** -40°C to +90°C<br>**UV Resistant** |
| Length | It is recommended to use PV cables shorter than 3m. Longer cables may cause interference to certain electronic devices. |

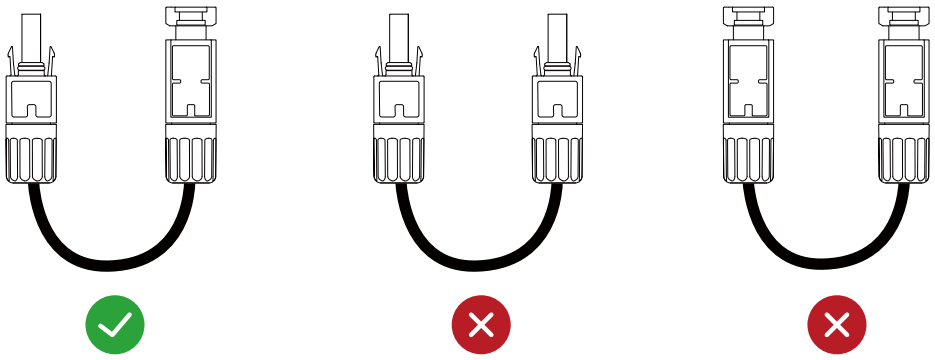
## Quick Ways to Identify a Compliant PV Cable

- The connector must carry a TÜV/UL certification mark and the manufacturer's brand logo.
- The cable body should be printed with "PV WIRE, UL" or "H1Z2Z2-K, TÜV" and a corresponding certification mark.

  *It's recommended to check the cable's certification report to confirm compliance.
- The cable body must not show an "AL" (aluminum) marking, only copper conductors are permitted.
- Confirm the wire gauge by checking the cross-sectional area printed on the cable body.




- Each PV cable must have one male and one female connector. Never use a cable with two male or two female connectors.

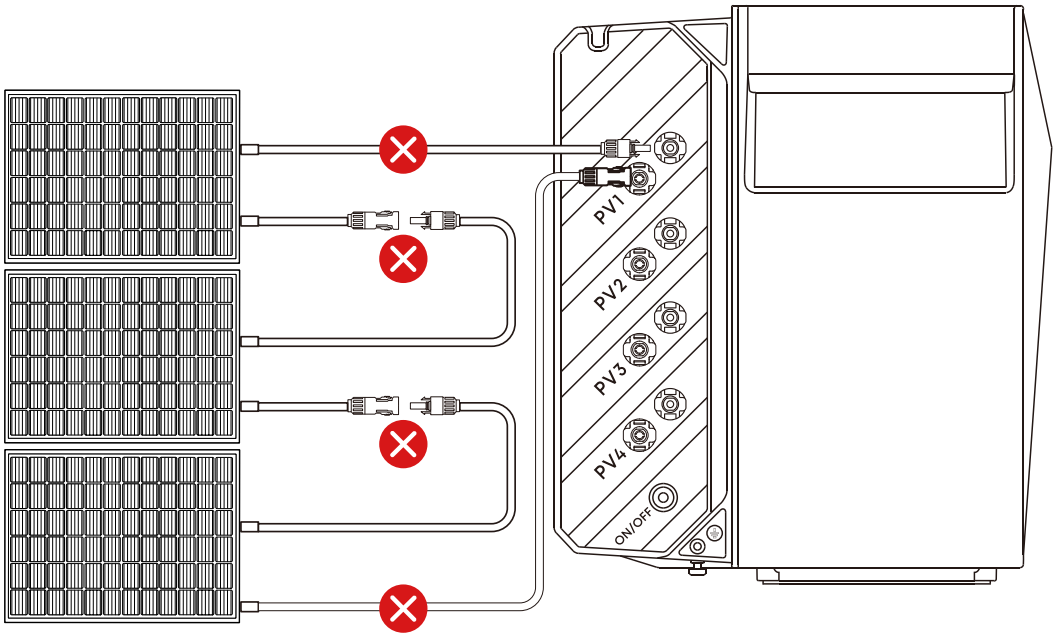


## Connection Requirements

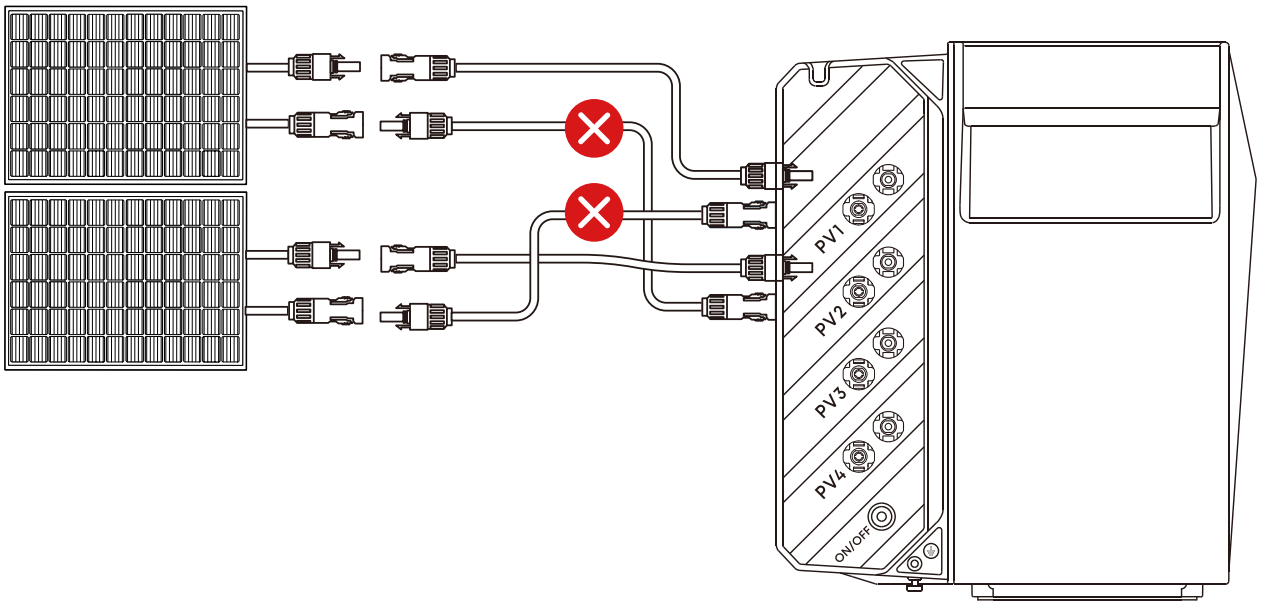
· Ensure that unused PV ports on Solarbank are sealed with waterproof caps.

· When connecting PV modules in parallel, please check the specifications of the PV modules and ensure that the total short-circuit current does not exceed 45A.

· Never connect two or more PV modules in series because this causes the input voltage to exceed 60V and will damage the equipment.

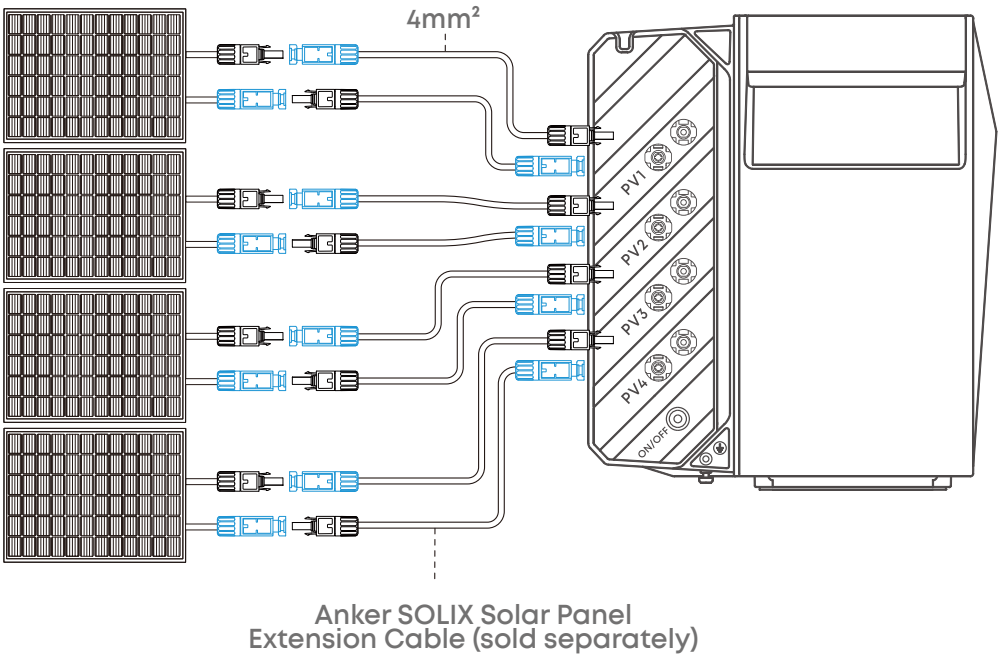



Never connect the same set of PV connectors to different sets of PV input ports. For instance, connecting the positive connector of PV Module 1 to the negative PV2 input port of Solarbank is prohibited.



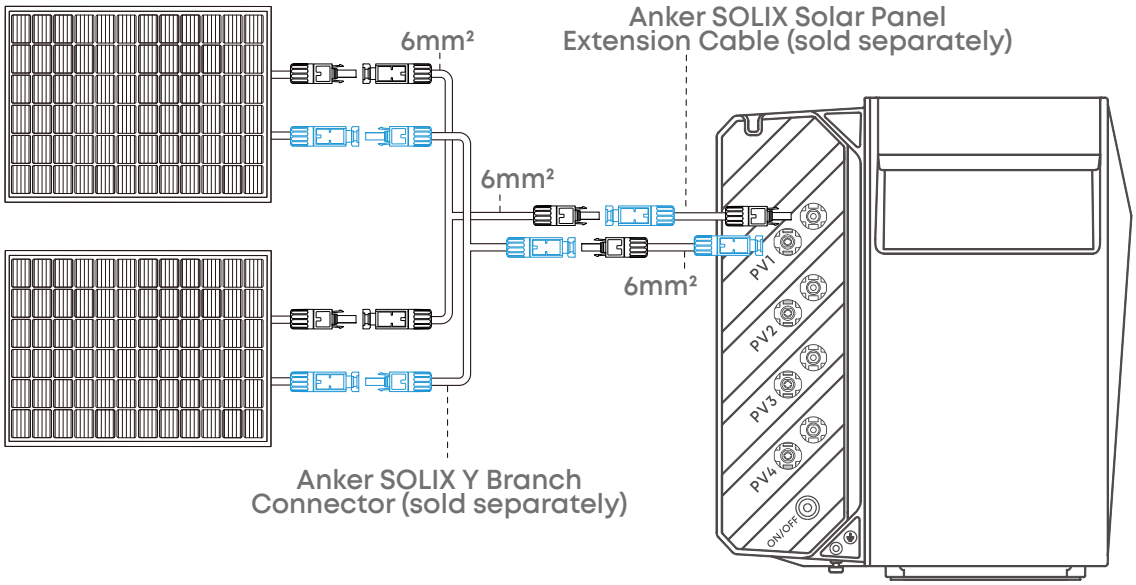
## Direct Connection (Up to 4 PV Modules)

Connect each PV module directly to the same set of PV input ports.




## Parallel Connection (Up to 8 PV Modules)

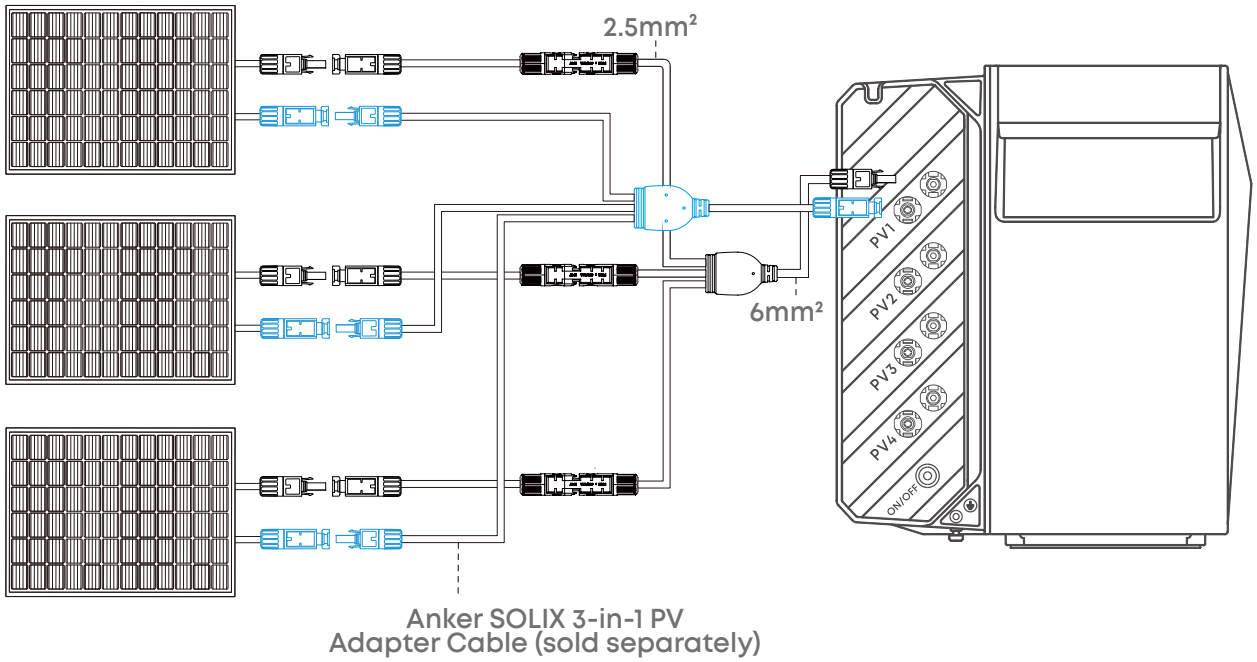
Connect every two PV modules to the same set of PV input ports.



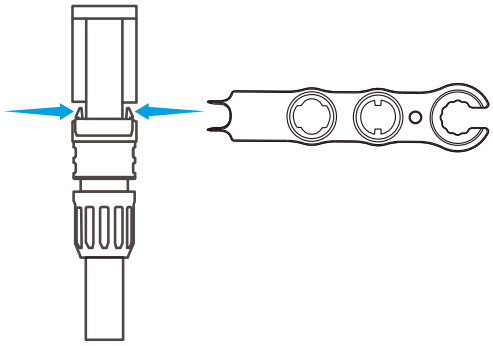
## Parallel Connection (Up to 12 PV Modules)

Connect every three PV modules to the same set of PV input ports.

Maximum current per PV module: 15 A




To disconnect the PV connectors, use the included wrench.

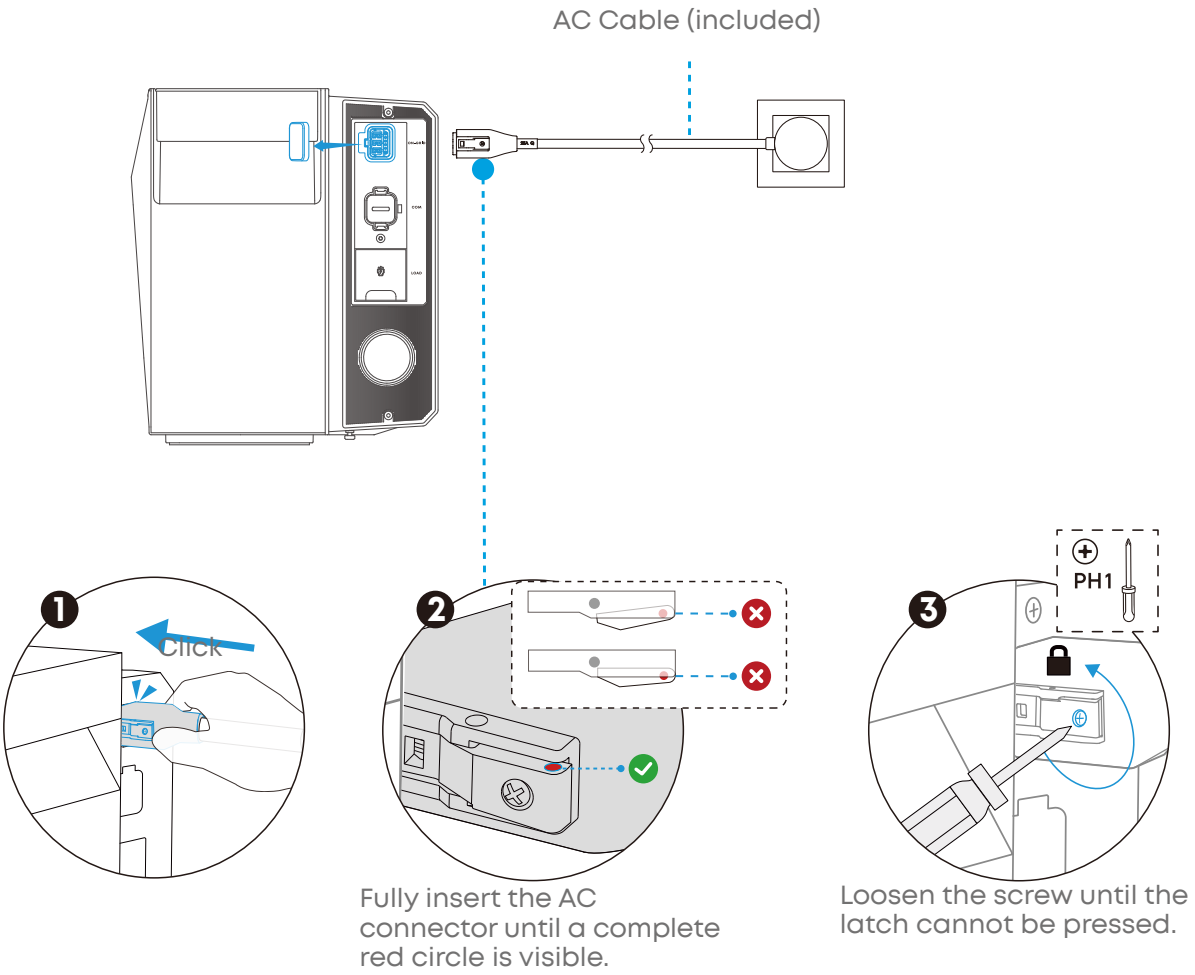


# Connect to the Grid

## Option 1: Via Socket

Ensure the AC cable is fully inserted into the on-grid terminal until you hear a click.

1. Remove the plug.
2. Connect Solarbank to a home outlet with included AC cable.




Fully insert the AC connector until a complete red circle is visible.

Loosen the screw until the latch cannot be pressed.

## Option 2: Via Wieland Socket

**CAUTION**

· All applicable local electrical codes, safety standards, and regulations must be followed.

· All installation work must be performed by a licensed electrician. Failure to do so may result in electric shock, fire, or property damage.

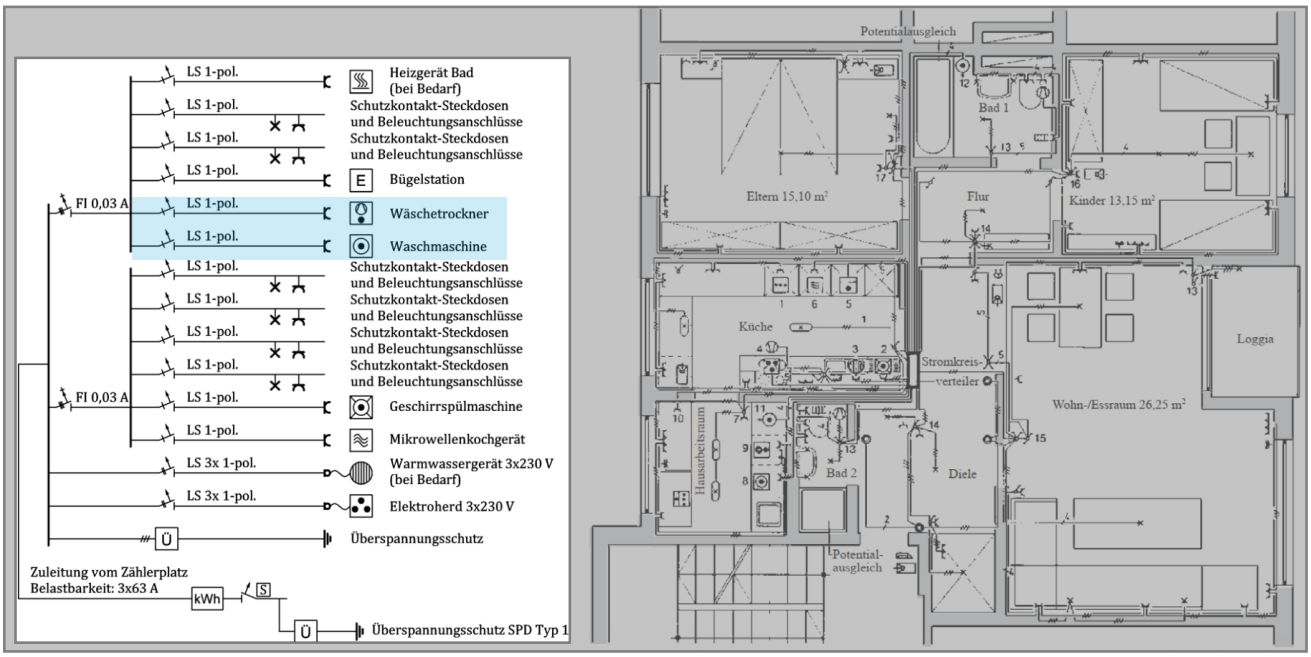
· For energy storage systems under 2500 W, registration with a qualified electrician is a mandatory legal requirement. Anker SOLIX is not liable for any issues arising from failure to register.

## Prepare a Dedicated Circuit

Use one of the following methods to locate or add a dedicated circuit. It is recommended to consult a qualified electrician to verify the dedicated circuit and assess the circuit condition to ensure compliance with applicable requirements.

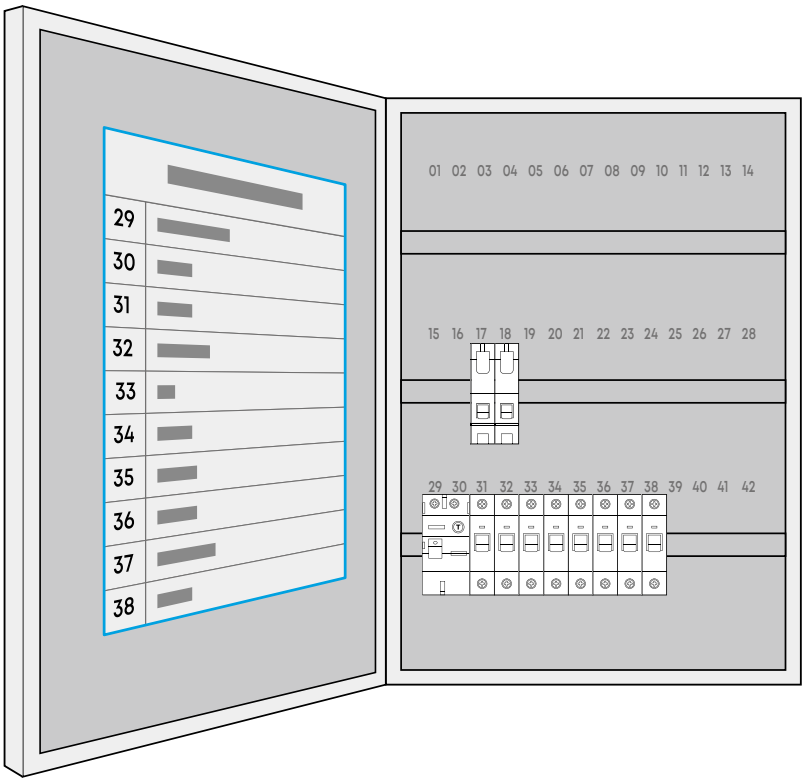
## Method 1: Check the Wiring Diagram

Refer to your home wiring diagram to locate a socket on a dedicated circuit.



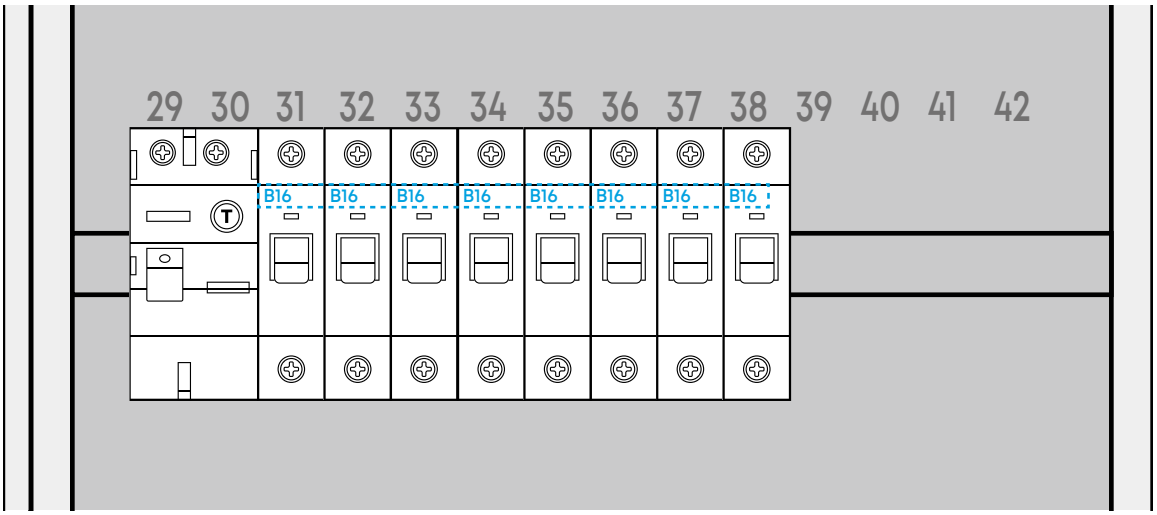

## Method 2: Check the Circuit Label

Open the electrical panel and find a breaker or RCBO label assigned to only one appliance.



### Method 3: Check the Breaker Mark

Locate the breaker typically marked as 16A, B16, or C16.




### Method 4: Add a Dedicated Circuit

If no dedicated circuit is available, contact a licensed electrician to install one.

### Select a Suitable Socket

If Solarbank is connected through a wall socket or a Wieland socket, select a suitable socket on the dedicated circuit. If Solarbank is connected directly to the main panel, skip this section.

#### 1. Confirm the Installation Location

Identify the appliance or socket served by that circuit, and check whether there is a suitable location nearby for Solarbank.

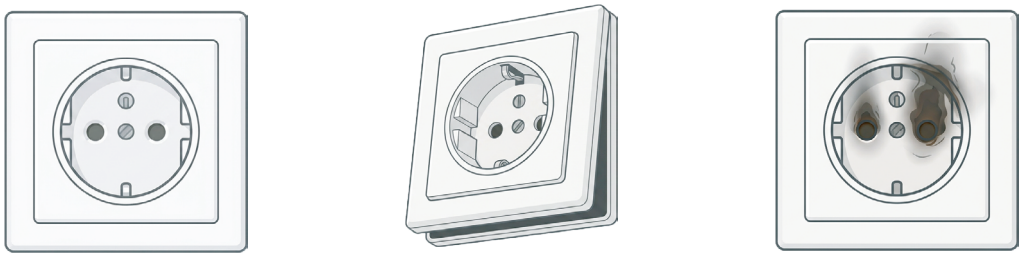
· Ideal spots: laundry rooms, attics, garden sheds, garages, and storage rooms.

· Avoid: kitchens, bathrooms, or areas with flammable or explosive materials.

#### 2. Check Socket Condition and Rating

Make sure the socket is in good condition, with no damage or signs of aging, and supports the required current (16A for EU).

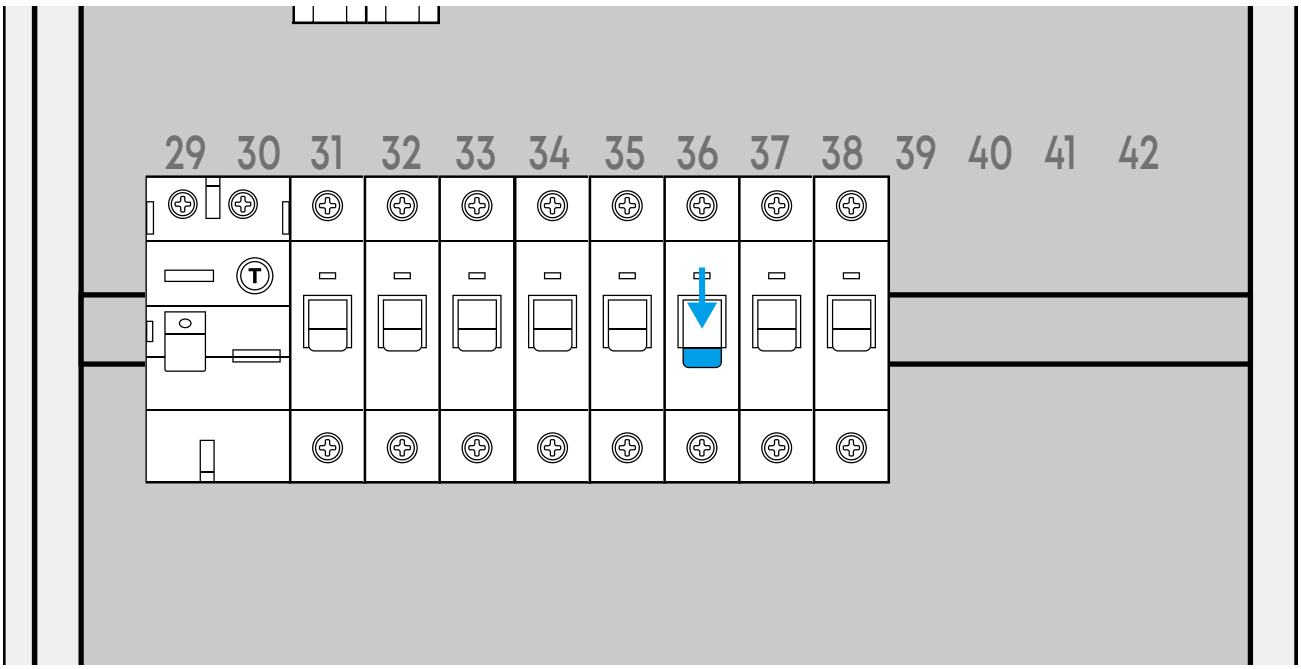
If the socket does not meet these requirements, switch off the breaker for that socket and replace the socket.



*The socket appearance is for reference only and varies by region.

### 3. Turn Off the Target Circuit

Switch off the breaker or RCBO for the target circuit.

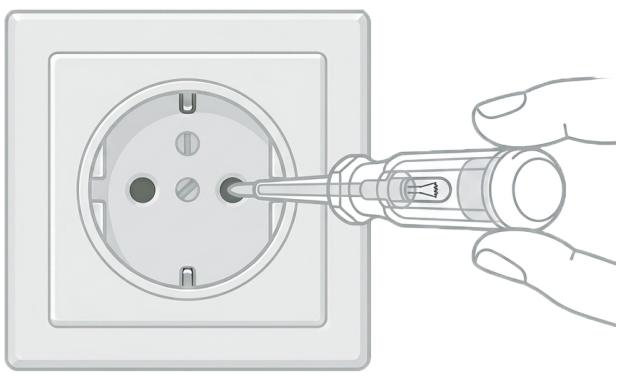


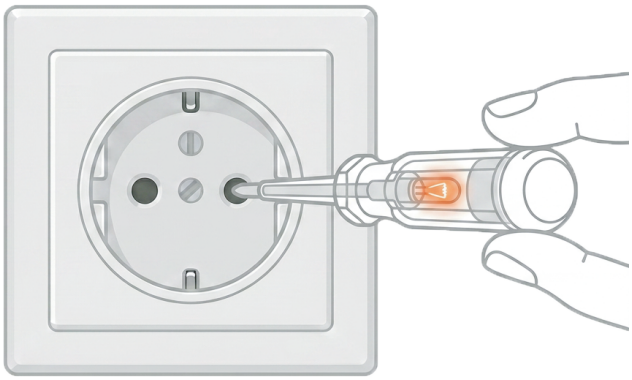

### 4. Test the Target Socket

Test the target socket with a voltage tester or a lamp. With the breaker switched off, the tester should not light up, or the lamp should remain off.

### 5. Confirm That the Circuit Is Dedicated

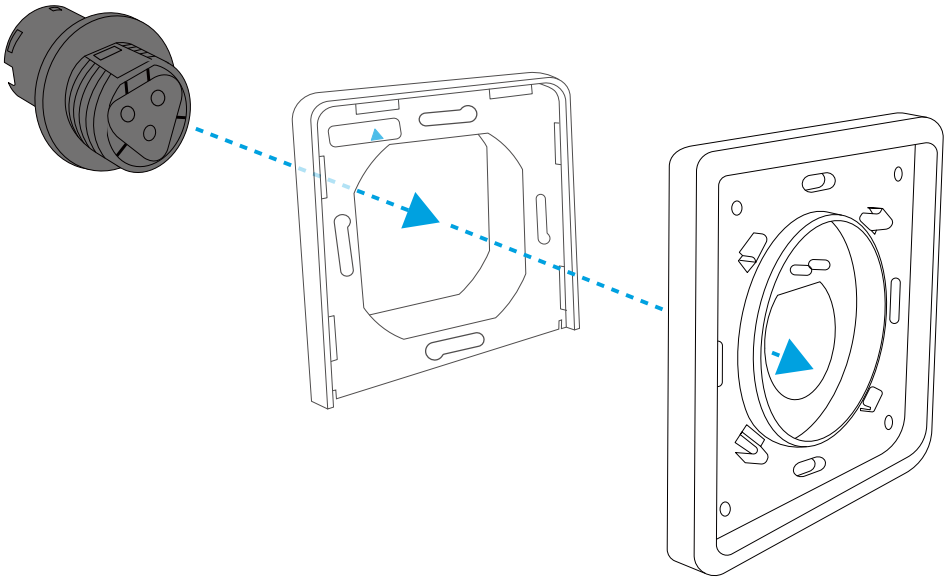
Test other sockets in your home with the same tool. If they remain powered, the target socket is on a dedicated circuit.



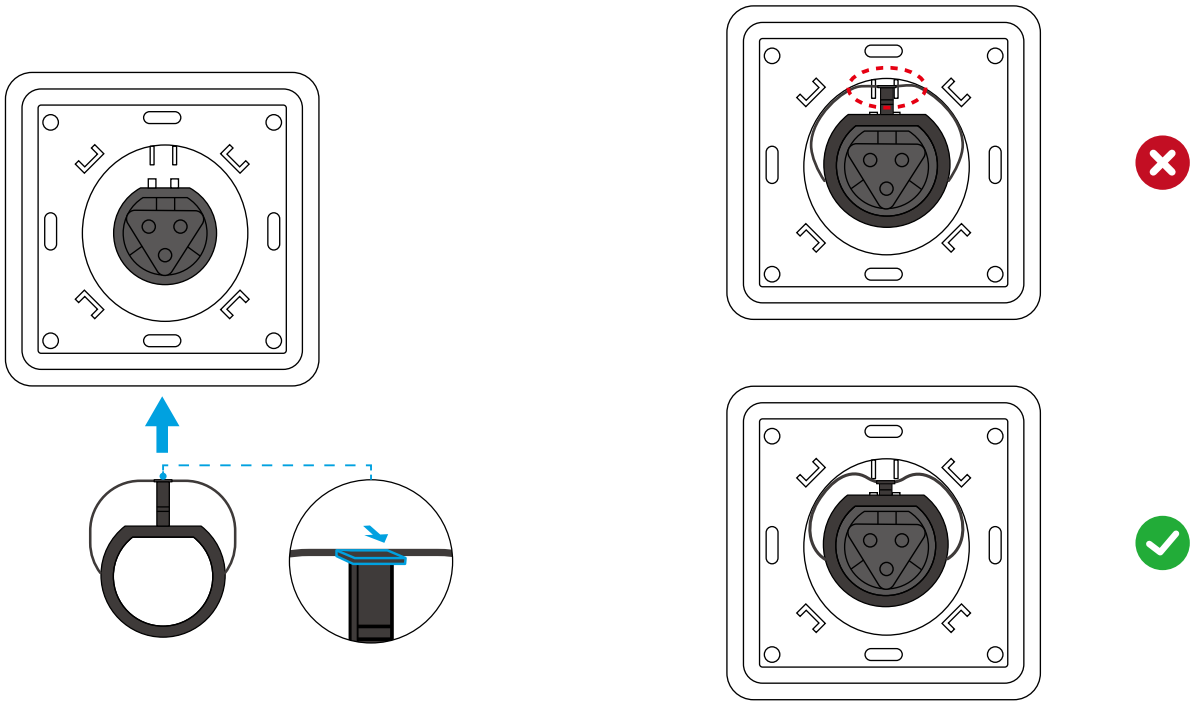


## Install the Wieland Socket

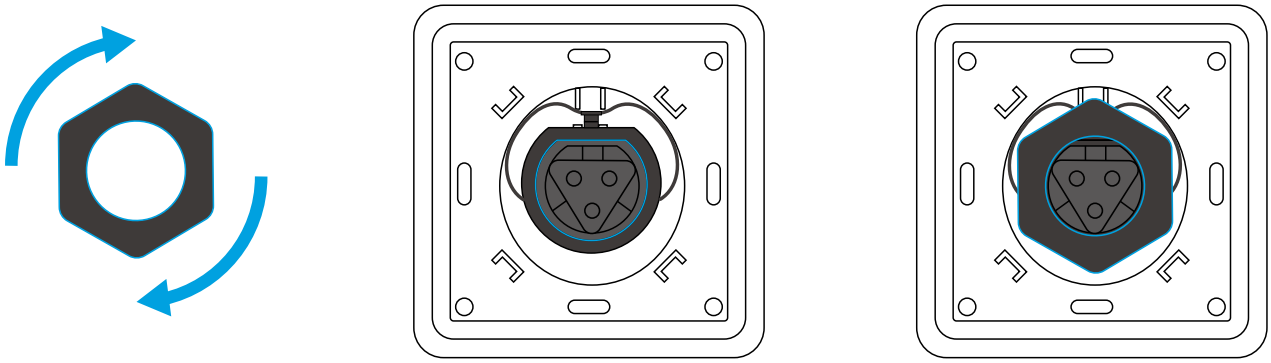
1. Assemble the socket panel.



2. Install the manual release ring.

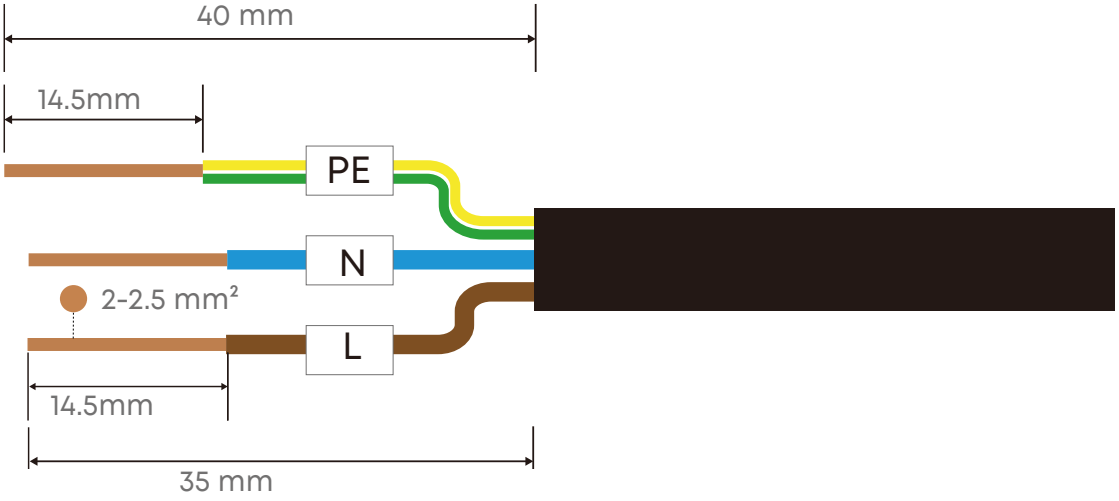


3. Tighten the lock nut.

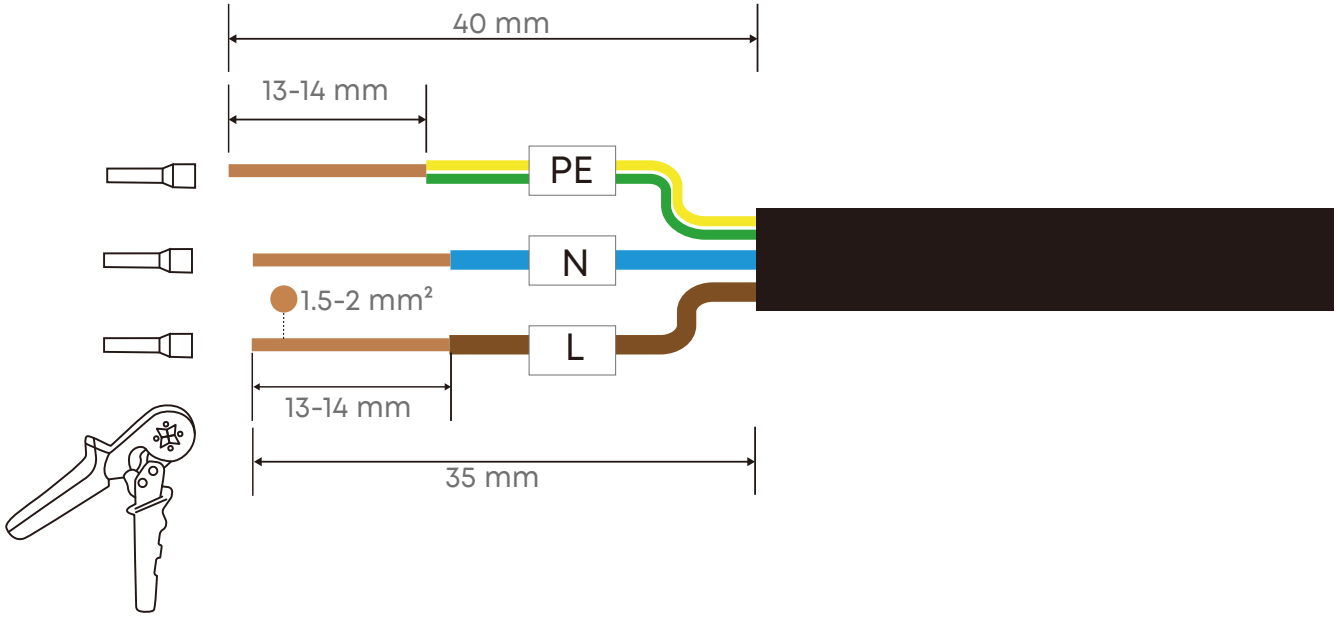


4. Prepare the cable.

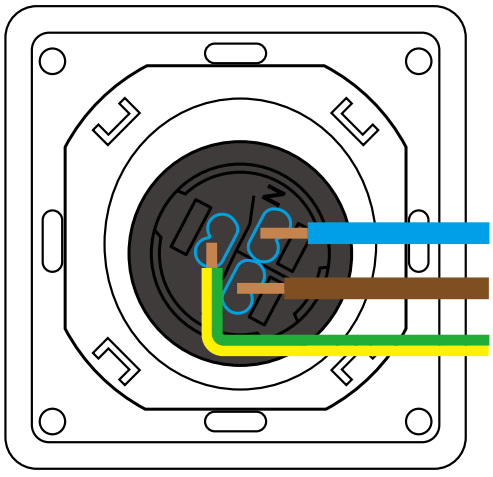
**Solid Copper Cable**



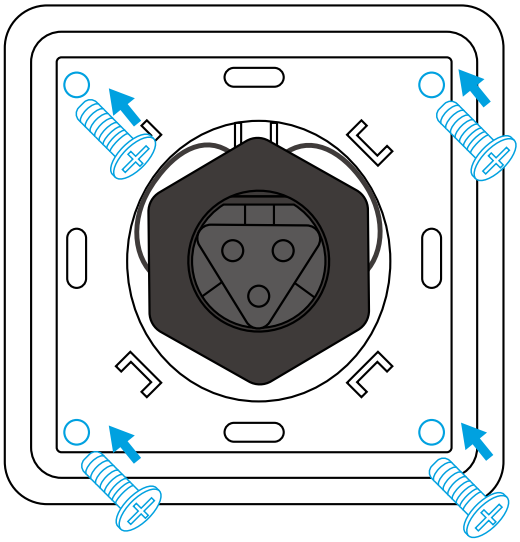

**Stranded Copper Cable**



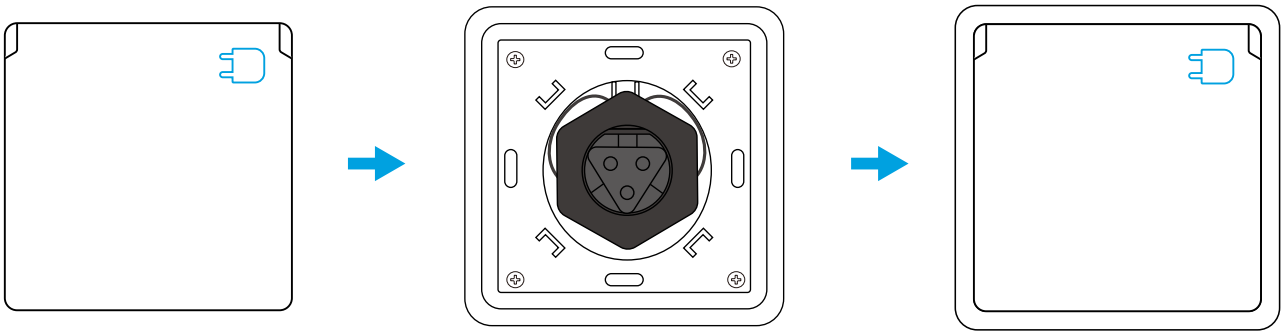

5. Connect cables to the connector.



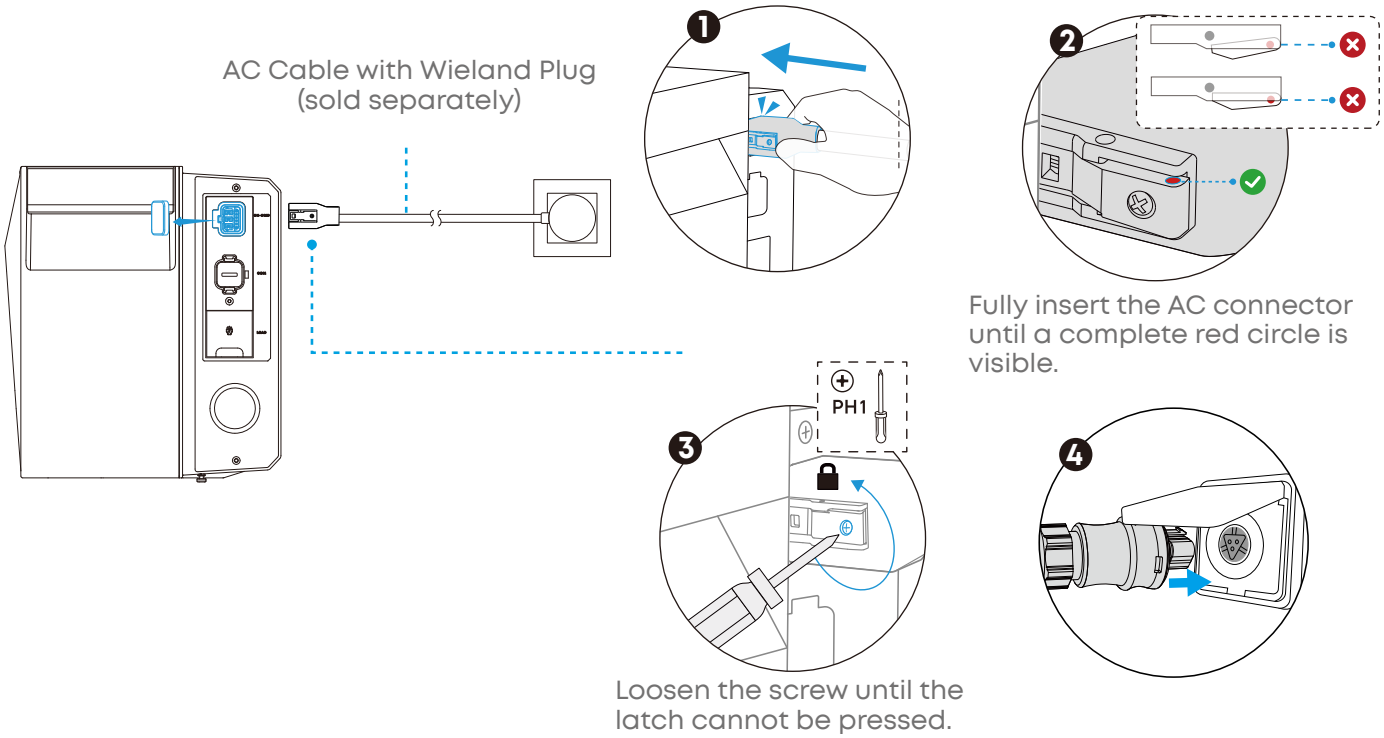
6. Secure the panel to the wall.



7. Snap the front cover onto the assembled panel.



8. Insert the AC connector into the Solarbank and connect the Wieland plug to the wall socket.



## Option 3: Via Main Panel

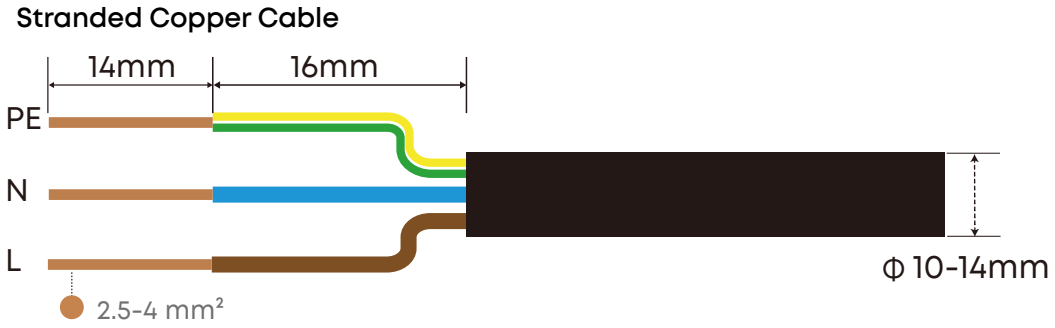
The AC Connector is sold separately.

**CAUTION**

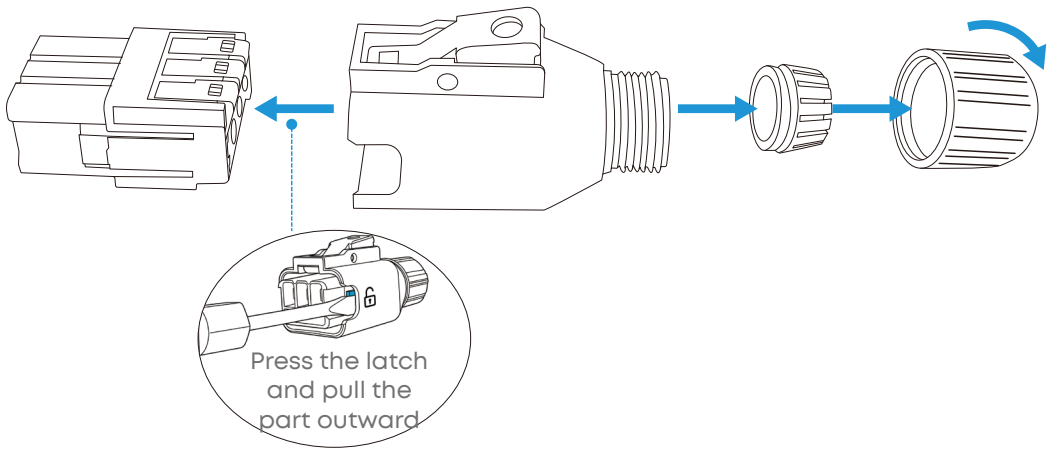
· All applicable local electrical codes, safety standards, and regulations must be followed.

· All installation work must be performed by a licensed electrician. Failure to do so may result in electric shock, fire, or property damage.

1. Strip insulation layers.



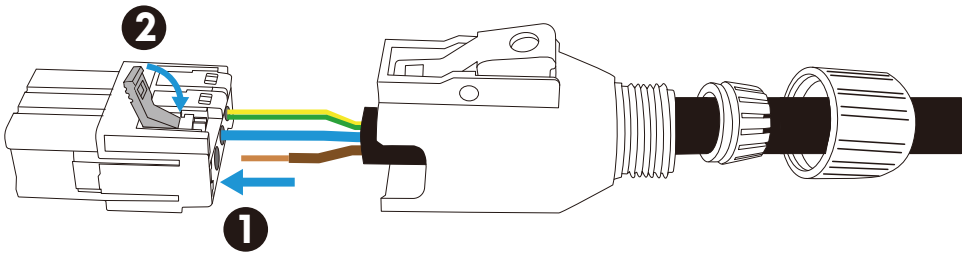

2. Disassemble the AC connector.




3. Connect cables to terminals.

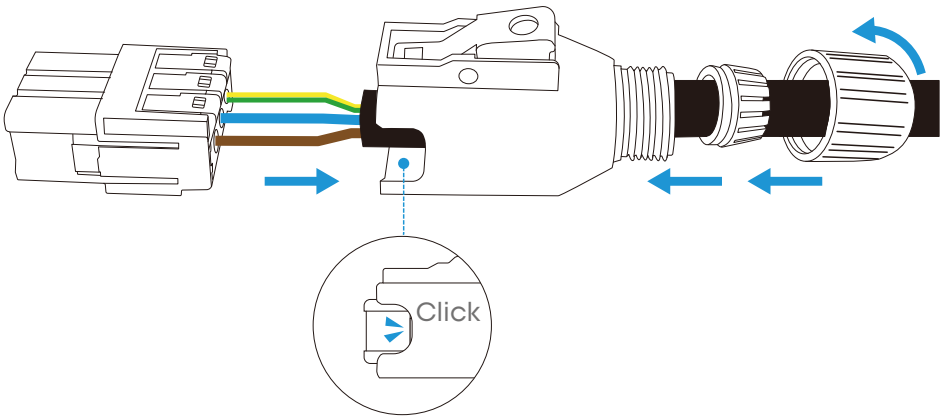
Twist the strands into a tight bundle, insert fully into the terminal, then press the lever down.

*After connection, gently pull the wire to confirm it is securely connected.

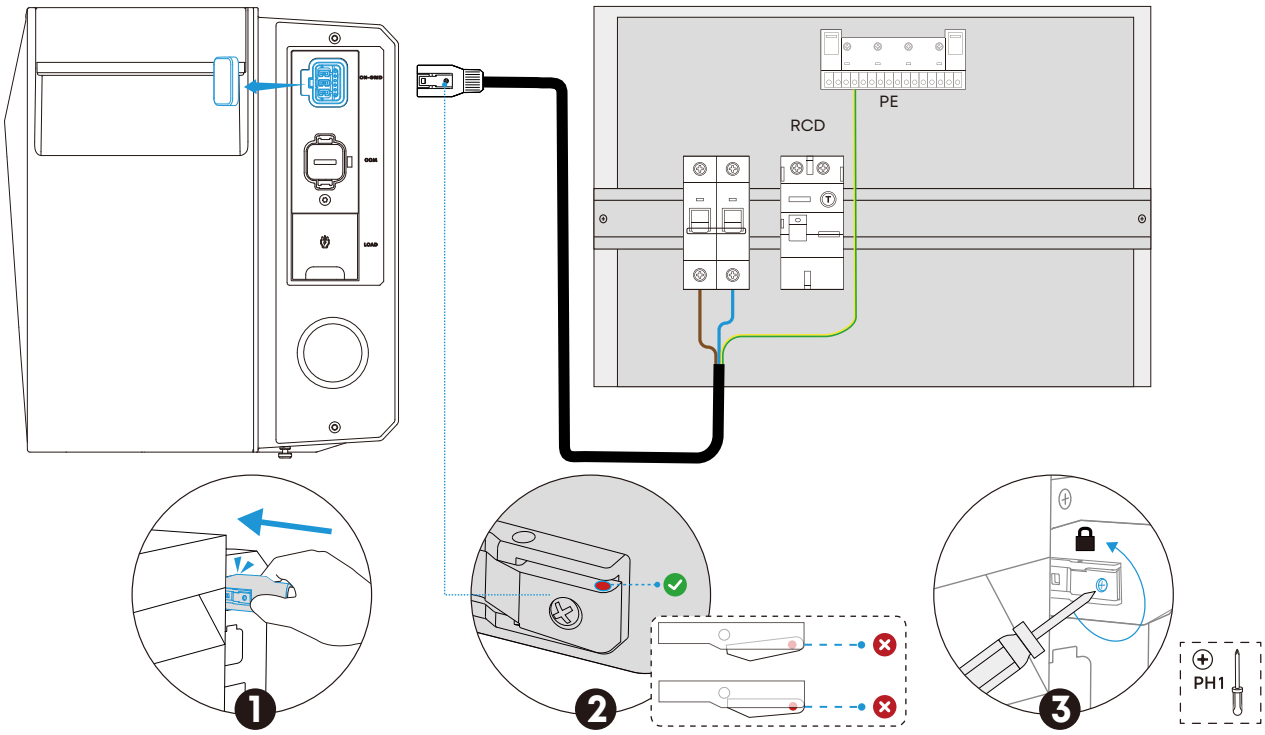


4. Assemble the AC connector

Ensure the nut is securely tightened to maintain the waterproof seal.




5. Insert the AC connector into the Solarbank and connect the other ends of the power cables to the main panel.



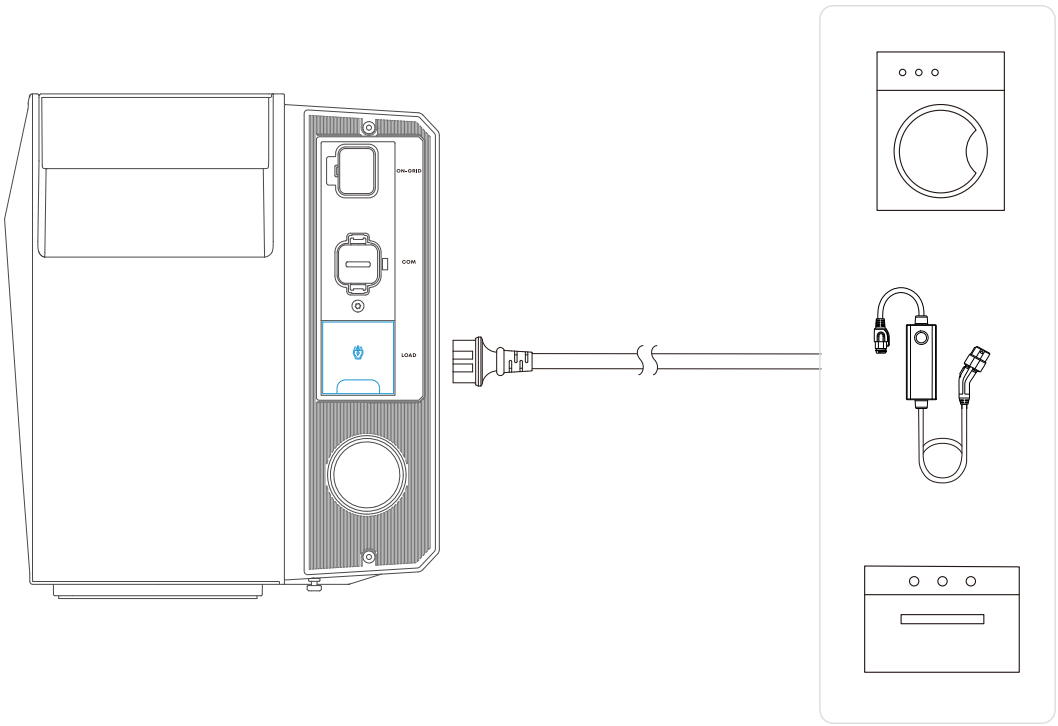

Fully insert the AC connector until a complete red circle is visible.

Loosen the screw until the latch cannot be pressed.

## Connect to Your Device

Power your device directly using the backup terminal if needed.

Insert the plug fully into the terminal.




## (Optional) Install the Smart Meter

Solarbank can be used with Anker SOLIX Smart Meter and Anker SOLIX Smart Meter Gen2. For installation instructions, please refer to:

Anker SOLIX Smart Meter User Guide (A17X7)

Anker SOLIX Smart Meter Gen 2 User Guide (AE1X0)

## (Optional) Install the Smart Plug

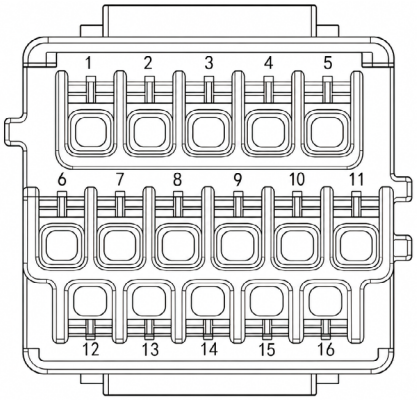
Solarbank can be used with Anker SOLIX Smart Plug and Anker SOLIX Smart Plug Gen2. For installation instructions, please refer to:

Anker SOLIX Smart Plug User Guide (A17X8)

Anker SOLIX Smart Plug Gen 2 User Guide (A17X8312)

# (Optional) Connect the Communication Cables

## Port Definitions

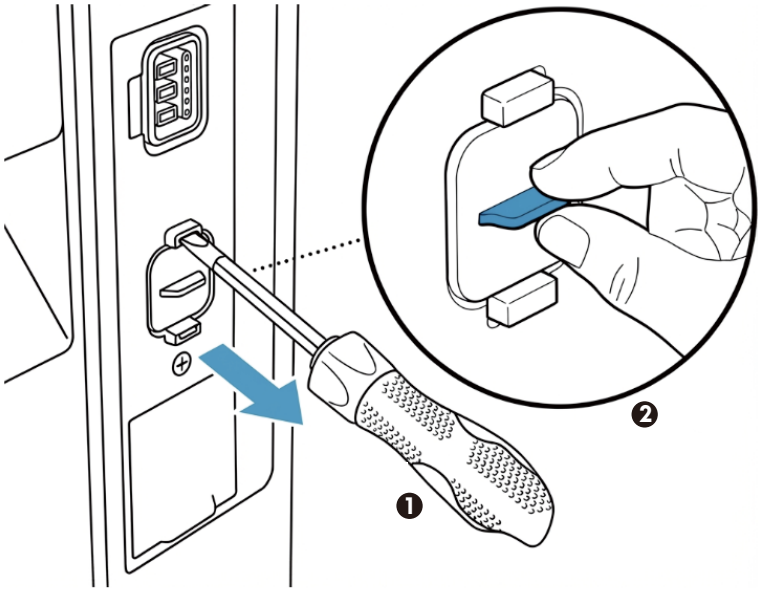



| Pin | Signal | Function |
|---|---|---|
| 1 | HP DRV1+ | Used to connect Heat Pump 1 |
| 2 | HP DRV1− | |
| 3 | / | Reserved |
| 4 | HP DRV2+ | Used to connect Heat Pump 2 |
| 5 | HP DRV2− | |
| 6 | RS485+ Meter | Used to connect the meter |
| 7 | RS485− Meter | |
| 8 | RS485+ Others | Used to connect other equipment over RS485 |
| 9 | RS485− Others | |
| 10 | CAN3 H | Used to connect the combiner box |
| 11 | CAN3 L | |
| 12 | DRM8 ARM+ | Rapid Shutdown |
| 13 | DC ISO GND1 | |
| 14 | DC ISO GND1 | DI− |
| 15 | DC ISO GND1 | DI− |
| 16 | DRMO ARM+ | DI+ |

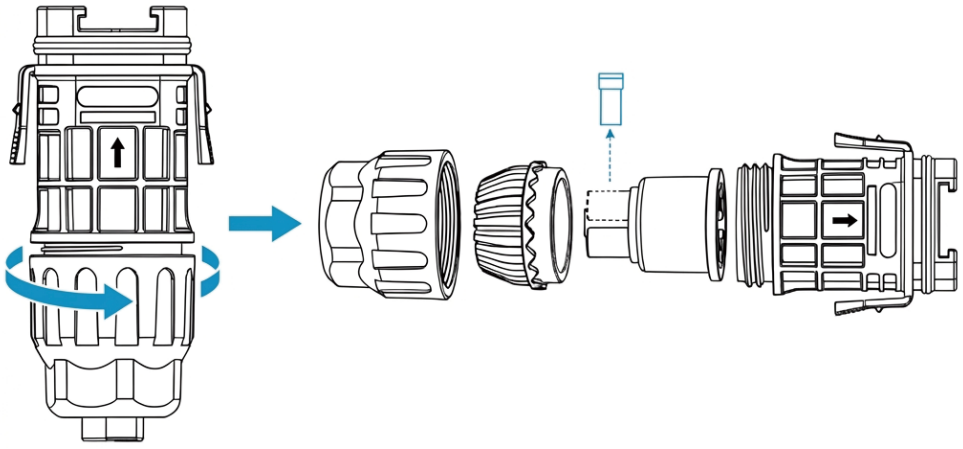
## Connect the Communication Cable

The method to connect different communication cables is the same. This section takes connecting the RS485 cable as an example.

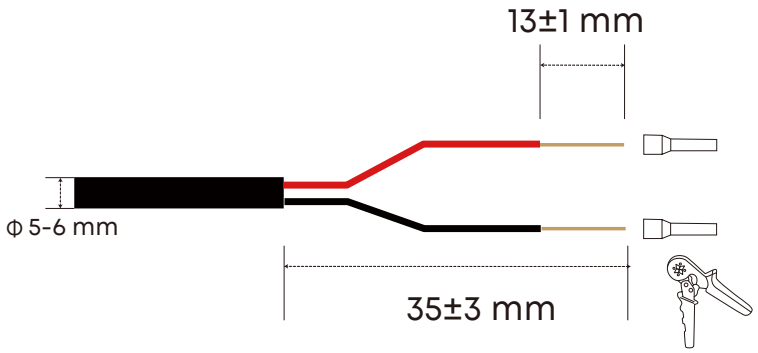
1. Use a flathead screwdriver to pry the top and bottom tabs of the cover to release it. Then pinch the tabs and pull the cover out of the COM port.



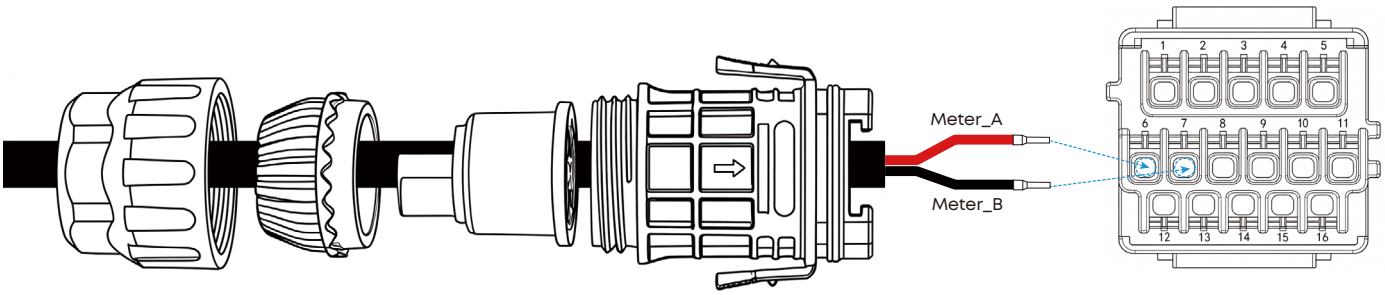

2. Dissemble the COM connector and take out a waterproof plug.



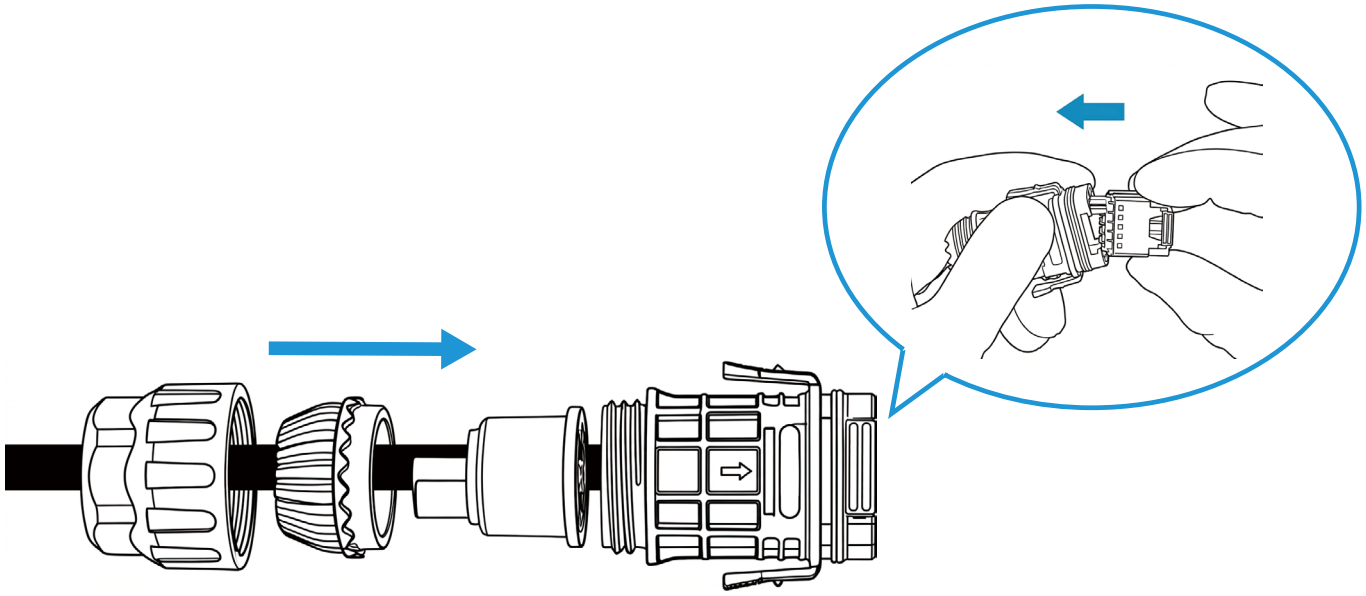
3. Crimp the RS485 Cable.



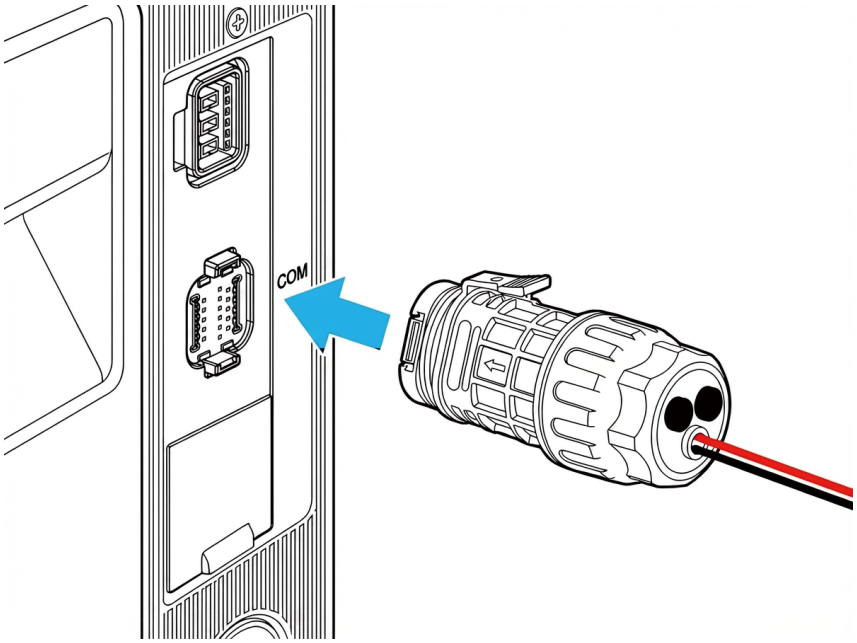
4. Route the RS485 cable through the connector and insert the tube terminals into the 16-pin terminal block connector.




5. Assemble the COM connector.



6. Fully insert the COM connector into the solarbank.

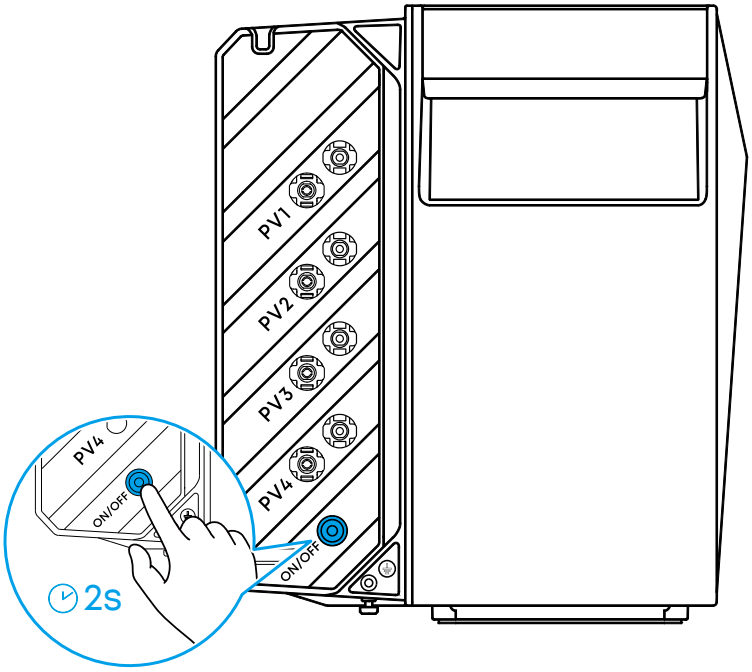


# Device Setup

## Power On / Off

The first use requires the connection to a PV module and a home outlet.

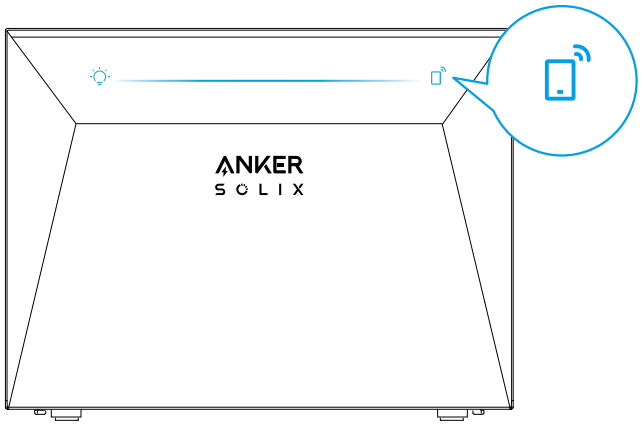
- **With solar or AC input:** Solarbank turns on automatically. To turn it off, disconnect it from both the PV modules and the home outlet, and then press the power button for 2 seconds.
- **Without solar and AC input:** Press the power button for 2 seconds to turn Solarbank on or off.




## Confirm Networking Status

Solarbank enters networking mode automatically when powered on. Ensure the IoT button is flashing blue.

Connect to the network using the Anker app within 30 minutes or Solarbank will turn off.



# Use the Anker App

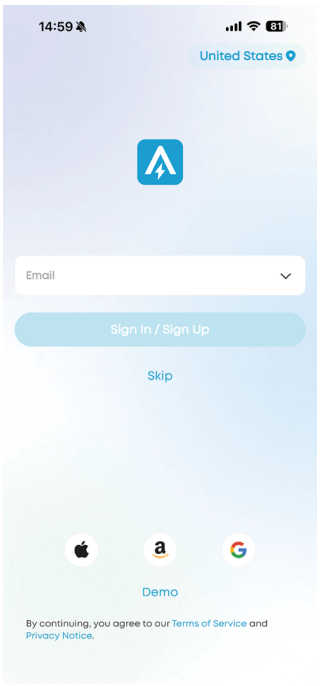
The Anker App allows you to monitor and manage your Solarbank system easily. Please note that the user interface images displayed are for illustration purposes and may differ from your actual view based on the software version.

## Download the Anker App

Download the Anker app from the App Store (iOS devices) or Google Play (Android devices), or by scanning the QR code.

## Sign Up / Sign In

Sign in or create an account. Please be reminded that the country or region MUST match where you live. An incorrect country or region may cause the device connection to fail.

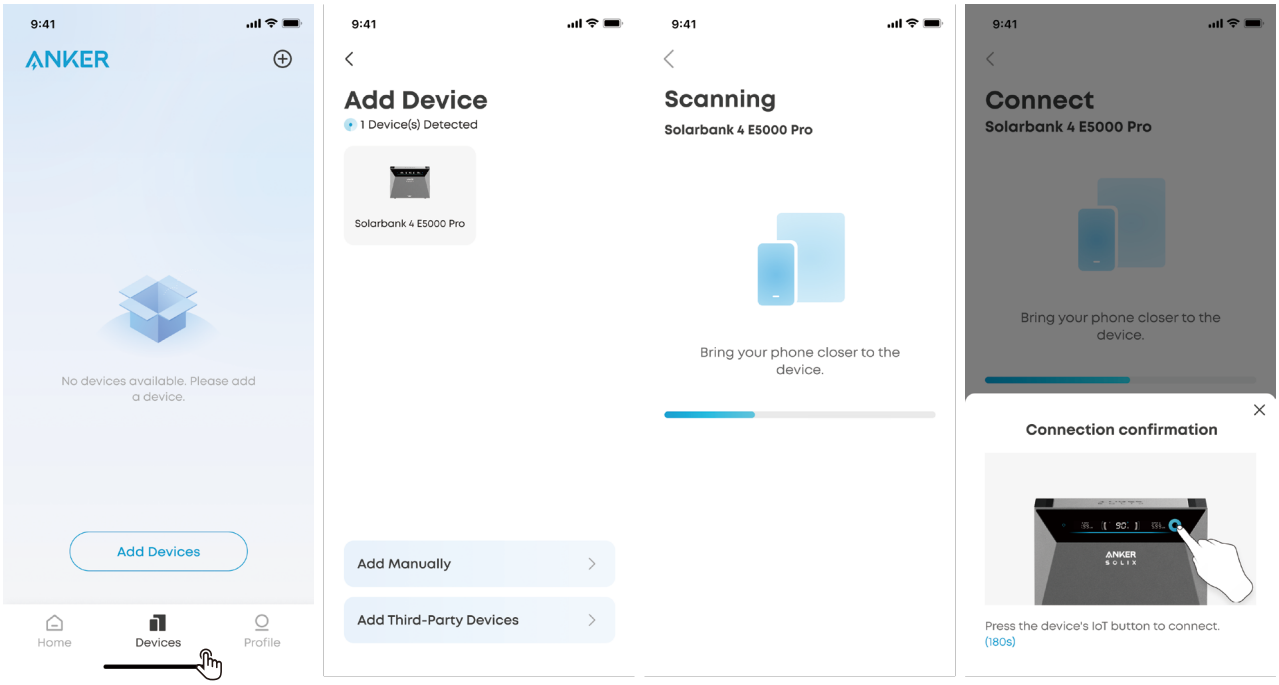


# Add Device

① On the Devices screen, tap Add Devices or the plus icon on the top right.

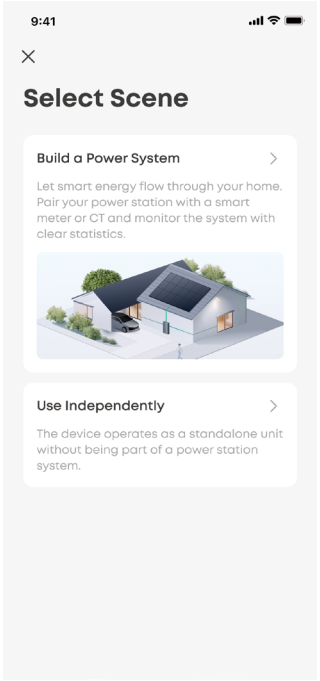
② Select your Solarbank.

③ Press the IoT button to complete the connection.




# Select Scene

Select from Build a Power System and Power Independently based on your installation scenarios.

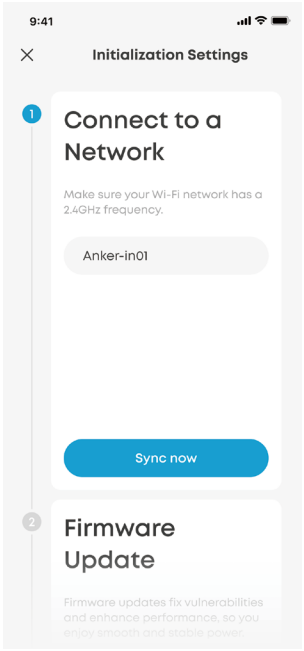


# Initialization Settings

The initialization steps may vary depending on your selected installation scenario. Follow the in-app instructions to complete the setup.

## Connect to a Network

Set up the network connection with a 2.4 GHz WiFi network.




## Add Another Device

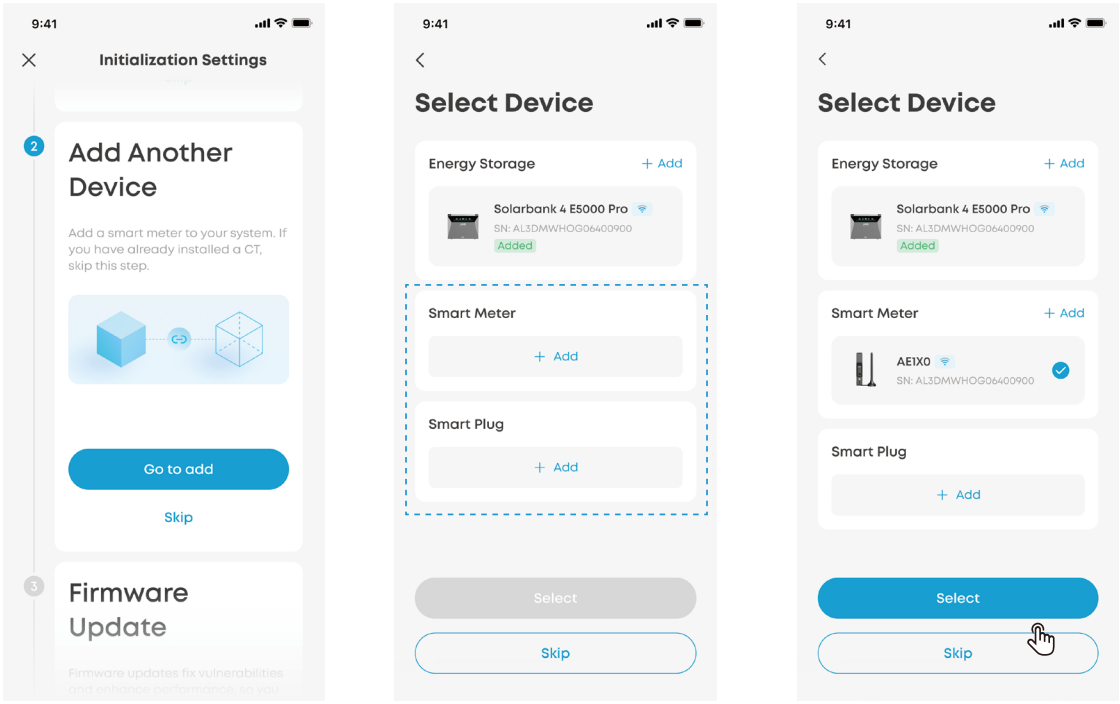
① Tap Go to add to add more devices to your system.

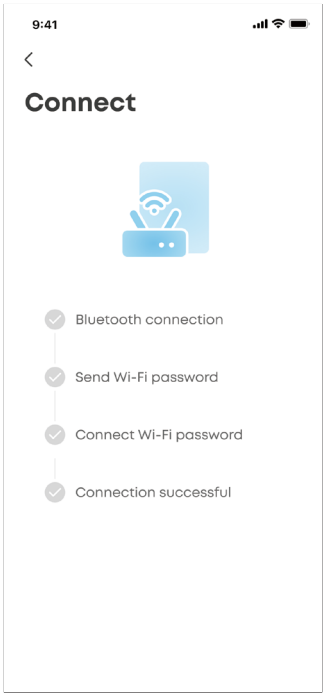
② Tap Add to select the types of devices to be added.

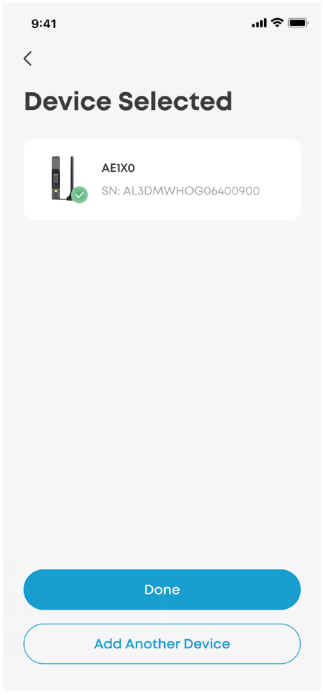
③ Connect Bluetooth and Wi-Fi

④ Tap to select devices to be added. Then tap Select to proceed.

⑤ Once all devices have been added, tap Done to proceed.

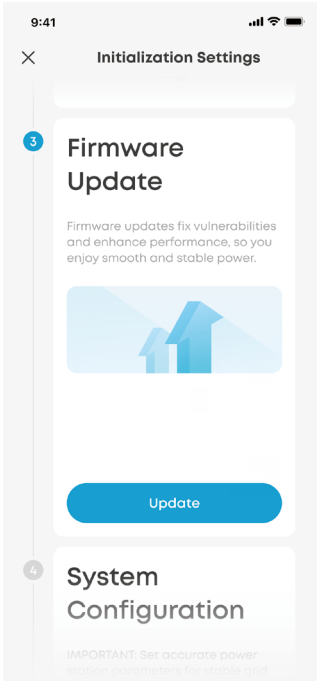





## Firmware Update

Upgrade the firmware to enjoy optimal performance.



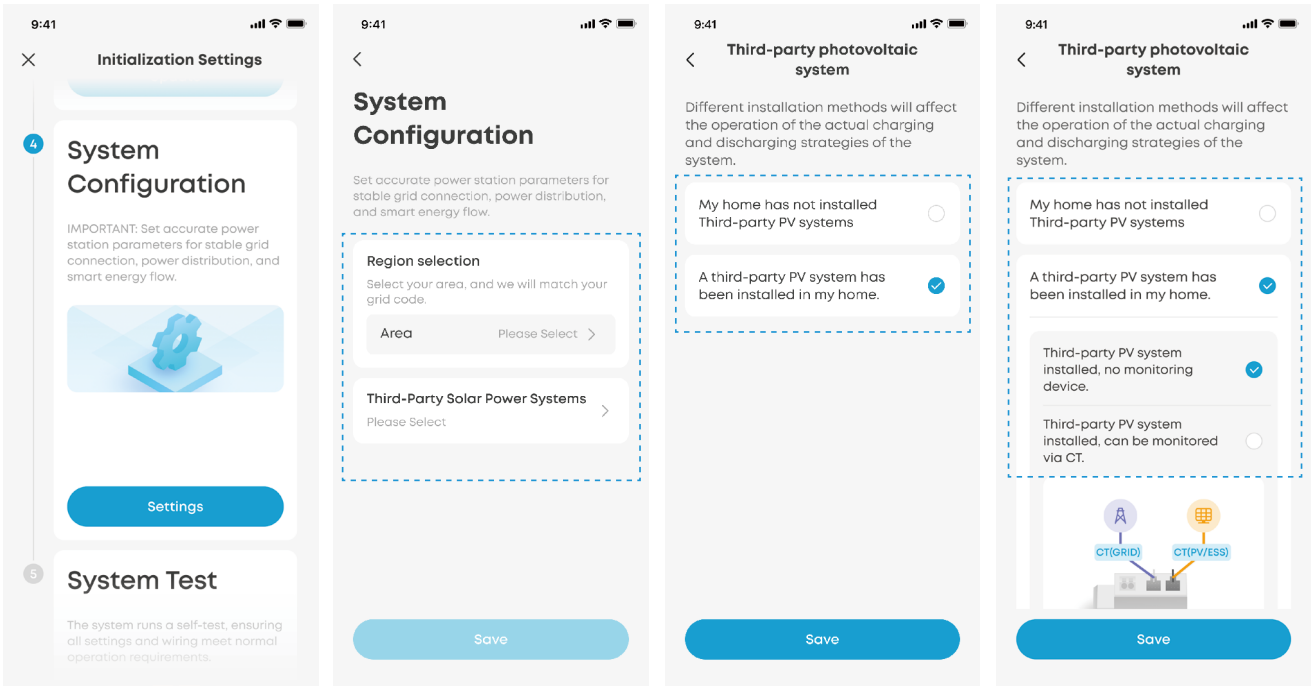

## System Configuration

① Tap Settings to configure the power station parameters.

② Select your region to match the local grid code.

③ Select whether a third-party PV system is installed in your home.

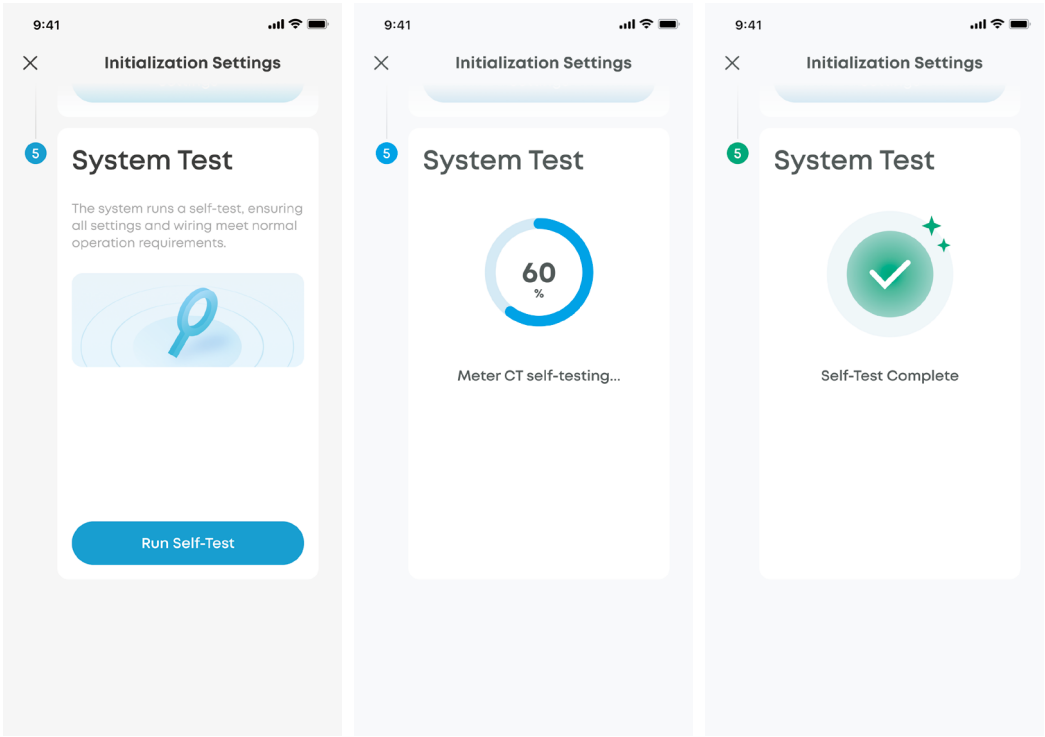
④ (Optional) If a smart meter is installed, select whether the CT (PV / ESS) has been connected to the third-party PV system.




## System Self-Test

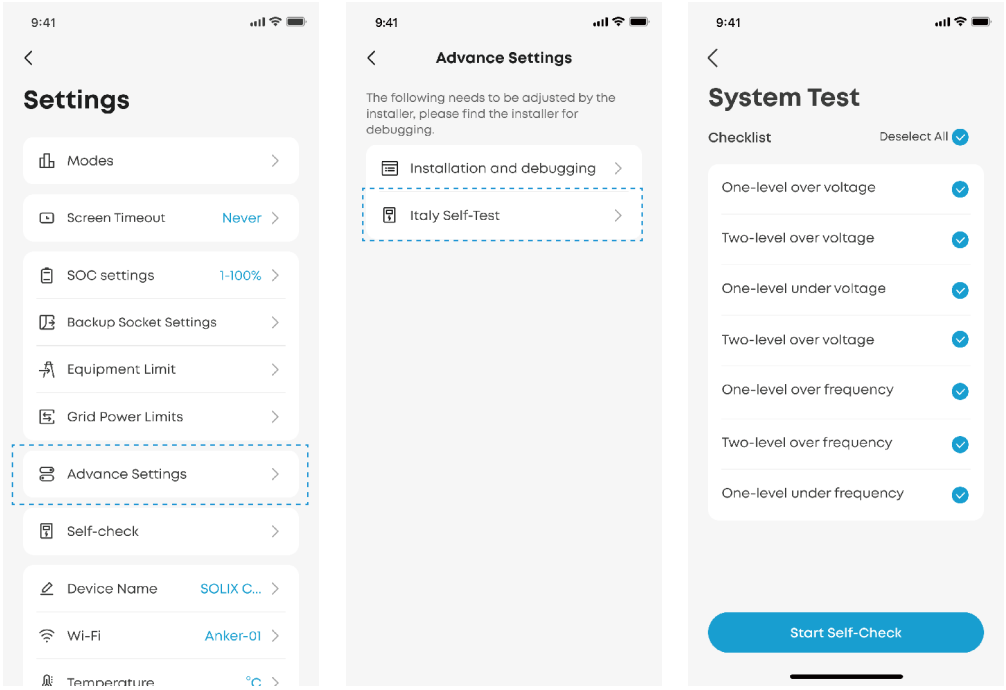
① Tap Run Self-Test —Start Self-Check to perform the system test.

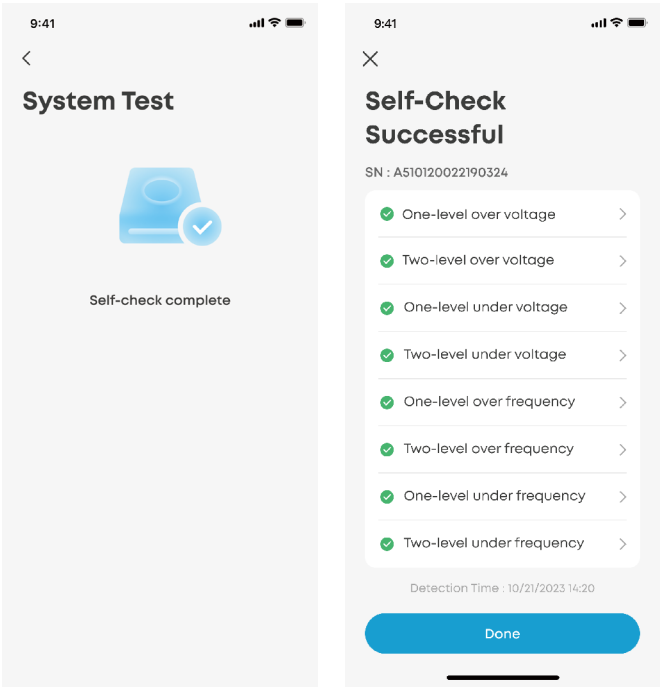
② The process will take a few minutes. Once complete, proceed to the next step.




## Perform Italy Self-Test (Italy only)

1. Go to **Settings - Advanced Settings - Italy Self-Test**.
2. If system testing is successful, tap Done to proceed.




# Customize Power Mode

Choose how your Solarbank manages power through the following modes to meet your home's energy needs

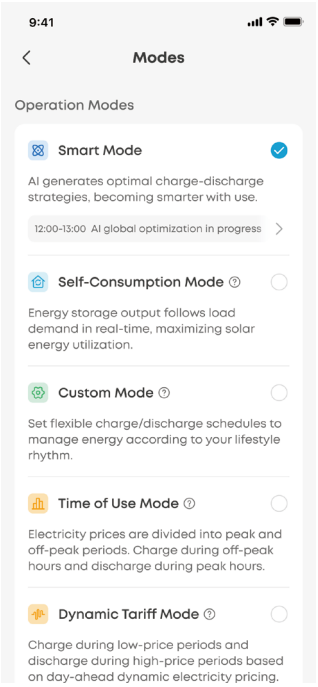
## Access Mode Selection

**During Setup**: Select a power mode from the options provided.




**After Setup:** Access mode selection from the shortcut on the home page.



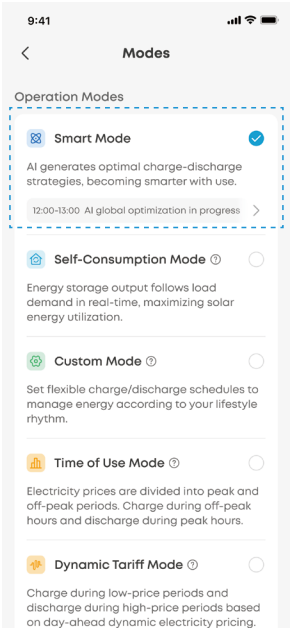
## Smart Mode

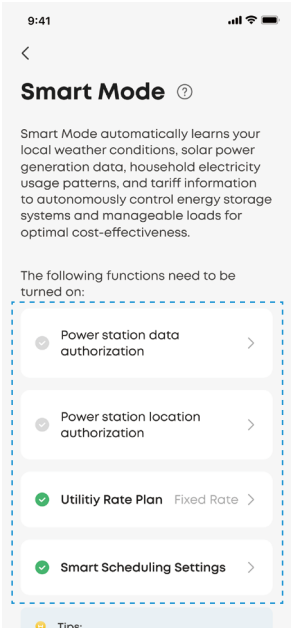
In smart mode, your Solarbank forecasts future electricity production and consumption, as well as electricity prices, to create an optimal power schedule.

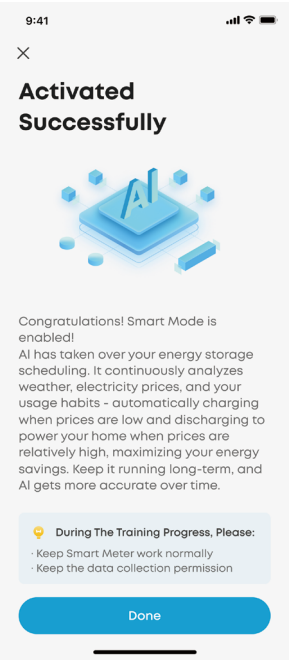
Smart mode requires a smart meter and is only compatible with phones that support Google Maps.

### How to Set Up:

1. Select **Smart Mode**.
2. Complete the following settings:
   - Authorize data access.
   - Authorize location access.
   - Set your utility rate plan.
   - (Optional) Add and set your power plug.
3. Solarbank will start self-learning, then operate in Smart Mode once learning is complete.



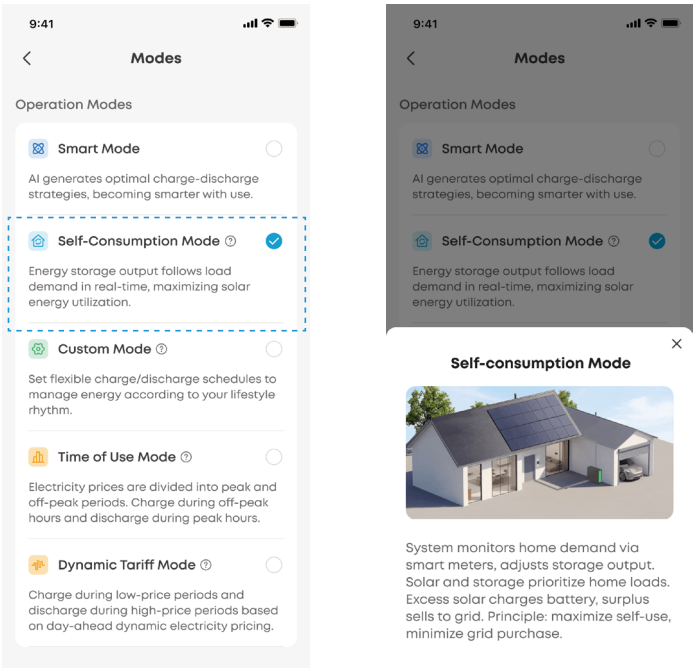



## Self-Consumption Mode

Self-consumption mode maximizes your use of solar power and minimizes reliance on the grid. In this mode, the smart meter will continuously monitor power demand and Solarbank will dynamically adjust the power output or storage.

- Self-consumption mode requires a smart meter.
- If the smart meter goes offline or malfunctions, Solarbank will automatically switch to custom mode until the smart meter is functional again.



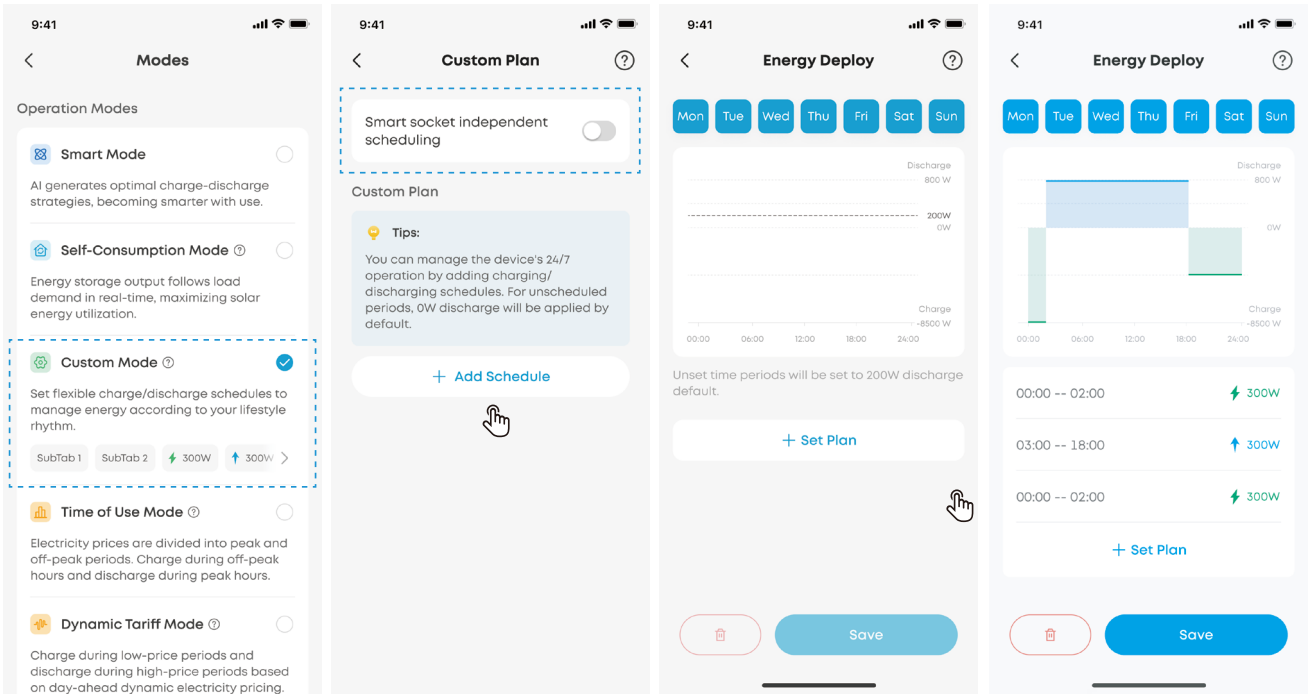

## Custom Mode

Customize power output based on your specific needs throughout the day. In this mode, you can set a 24/7 schedule of photovoltics consumption and storage for the Solarbank system. The system will power your home loads according to the schedule you set.

### How to Set Up:

1. Select **Custom Mode.**
2. (Optional) If a Smart Plug is connected to your system, select whether to enable Smart socket independent scheduling.

   Once enabled, the device will automatically calculate the discharge curve including Smart Plug power consumption and dispatch discharge accordingly.
3. Tap Add Schedule, then select the specific days of the week for plan execution.
4. Tap Set Plan to set discharge schedules for household loads.
5. Save and apply the energy plan.



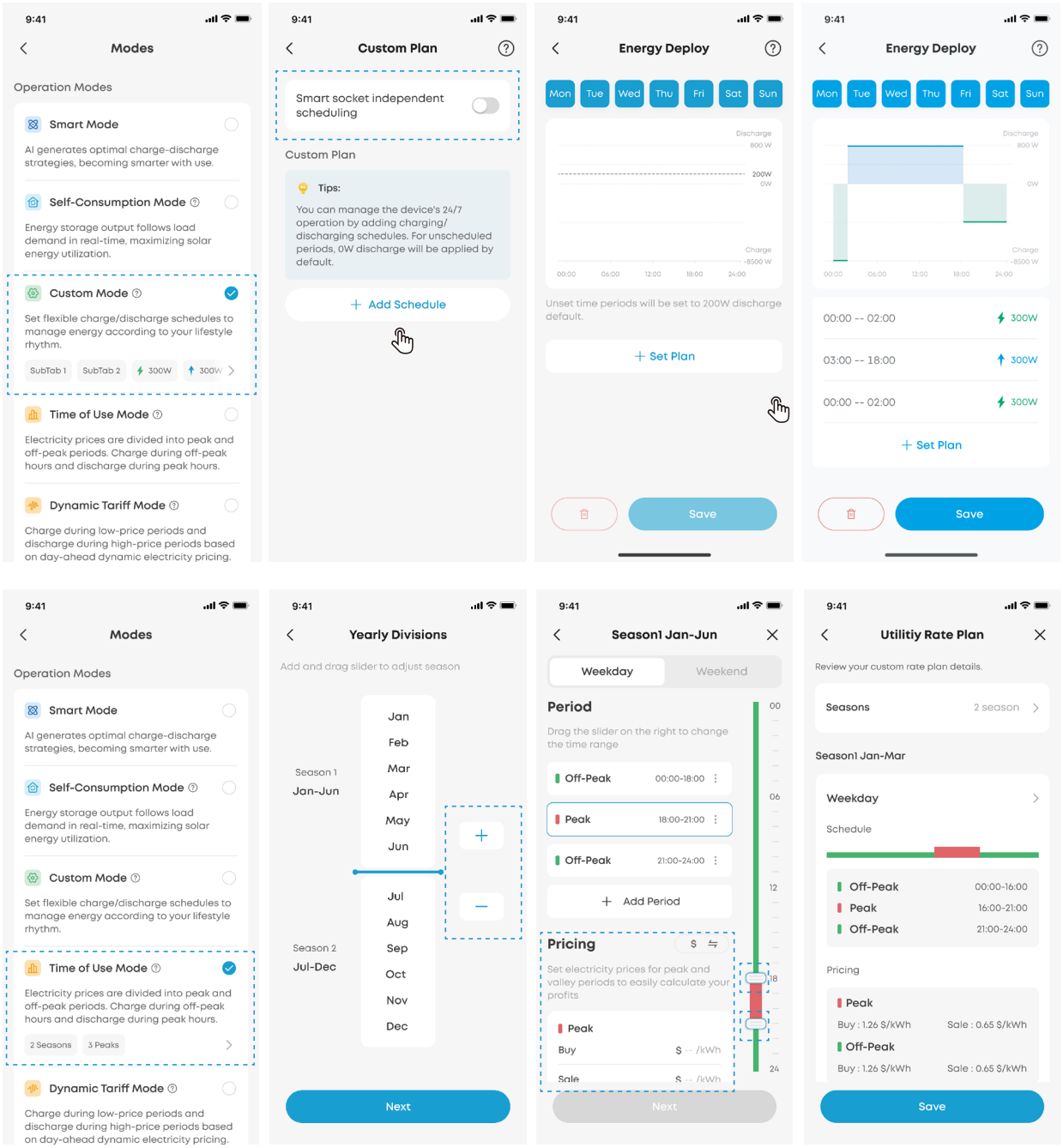

## Time of Use Mode

Manually set the charge and discharge intervals to schedule energy use throughout the day. The periods are categorized as follows:

- **On-Peak / Mid-Peak**: Photovoltaic power prioritizes supplying the load. Excess photovoltaic power recharges energy storage. If photovoltaic power is insufficient for the load, energy storage will discharge and power will be purchased from the grid to meet demand.
- **Off-Peak**: Photovoltaic power prioritizes supplying the load. Excess electricity recharges energy storage. If photovoltaic power is insufficient, energy storage supplies power to the load until remaining power is approximately 80%.
- **Super Off-Peak**: Photovoltaic power prioritizes recharging energy storage. If power generation is insufficient, electricity will be purchased from the grid. When energy storage is fully charged, the load will be powered by photovoltaic energy and grid electricity. Energy storage will not discharge at all during this time.

## How to Set Up:

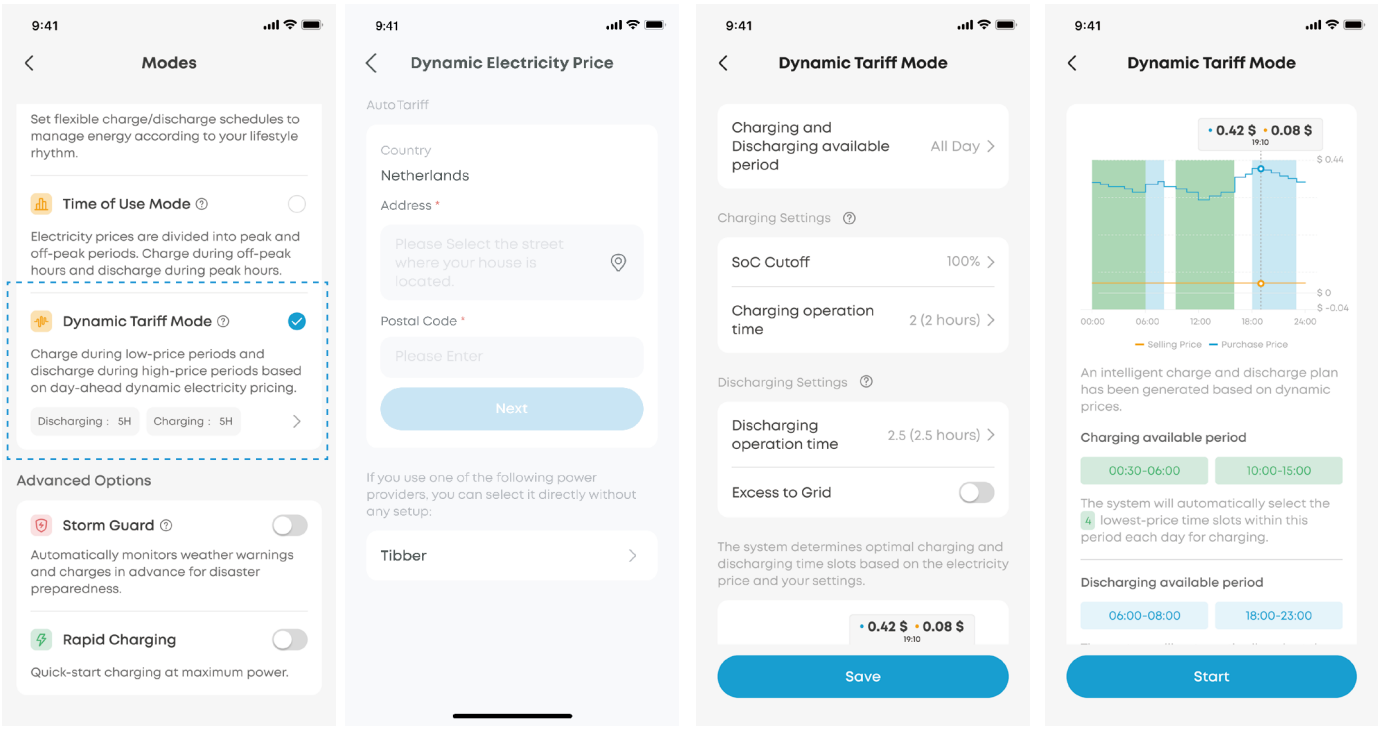
1. Select Time of Use Mode.
2. Select specific months for each season.
3. Tap Add Time Period
4. Edit time periods by dragging the slider. Tap Add Period to include additional periods. Repeat this for weekends if necessary.
5. Enter the rate pricing. Set unique "buy" and "sell" prices for each time period.
6. Repeat steps 4 and 5 for all time periods and seasons.
7. Review and save your settings.



## Dynamic Tariff Mode

1. Select Dynamic Tariff Mode.
2. (Optional) If the electricity rate has not been set, set it first.
3. Check tariff settings and make adjustments as needed. The system determines the optimal charging and discharging time slots based on the electricity prices and your settings.

| | |
|---|---|
| **Charging and Discharging Period** | Edit different time periods by dragging the slider. |
| **Charging Settings** | · **SOC Cutoff:** The system automatically stops charging when the battery reaches cutoff power.<br>· **Charging Operation Times:** The system will identify the corresponding periods with lowest electricity prices based on your settings, and then automatically charge the battery during those periods. |
| **Discharging Settings** | · **Discharging Operation Times:** The system will identify the corresponding periods with highest electricity prces based on your settings, and then automatically discharge the battery duiring those periods.<br>· **Battery Export to Grid:** Enable this feature to feed excess energy to the grid. If this feature is disabled, the energy will be reserved for home use. |
| **Charging and Discharging Available Period** | You can set the time period for charging and discharging. During the time period, the system will execute the EMS schedule according to the charging operation times and discharging operation times set below. |

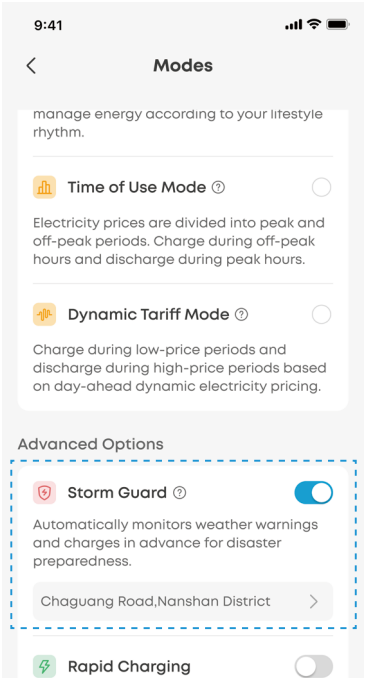


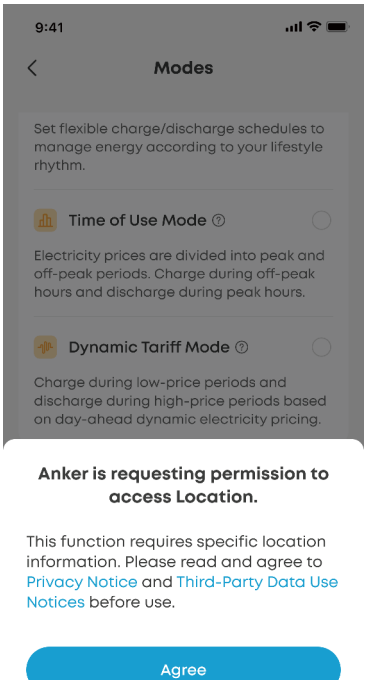
## Storm Guard Mode

In this mode, the system automatically switches to backup power during a disaster and restores the previous strategy when the backup period ends.

### How to Set Up:

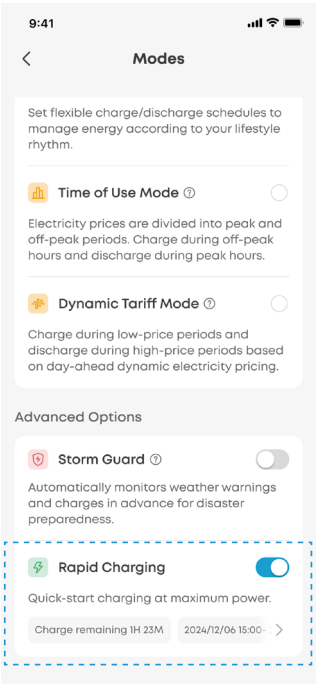
1. Toggle on Storm Guard Mode.
2. Authorize location access.

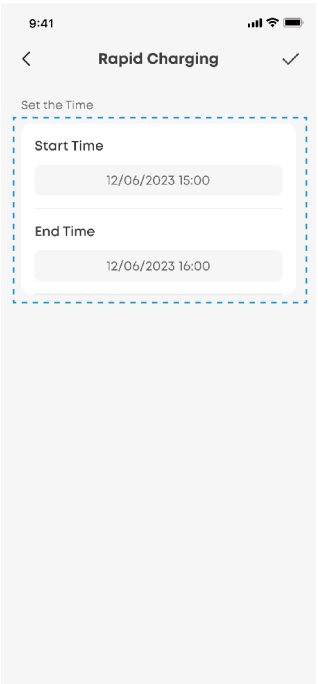



## Rapid Charging

When Rapid Charging is enabled, Solarbank prioritizes battery charging in case of storm warnings or potential outages. You can set the start and end time for this change.



# Specifications

Specifications are subject to change without notice.

## Anker SOLIX Solarbank 4 E5000 Pro

| Model | AE103SZ1, AE1038Z1, AE1033Z1-20, AE1033Z1 |
|---|---|
| **PV Terminal** | |
| Max PV Input Voltage | 60 VDC |
| Max PV Input Current | 36 ADC ×4 |
| Max Isc PV | 45 ADC ×4 |
| Max PV Input Power | 1,250x 4 / 5000 W |
| Operation Voltage Range | 16-50 VDC |
| **Battery Data** | |
| Rechargeable Li-ion Battery | LiFePO4 / LFP |
| Battery Nominal Voltage | 16 VDC |
| Max Charge Current | 180 ADC |
| Max Discharge Current | 180 ADC |
| Rated Power (Single Device) | 2,500 W |
| Rated Energy | 5,024 Wh |
| Rated Capacity | 314 Ah |
| **AC Input (On-Grid Terminal)** | |
| Max AC Input Power | 3,600 W |
| Max AC Input Current | 16 AAC |
| Max AC Charge Power | 2,500W |
| Max AC Charge Current | 10.9 AAC |
| AC Nominal Input Voltage | L+N+PE 220 Va.c./230 Va.c./240 Va.c., 50 Hz |
| **AC Output (On-Grid Terminal)** | |
| AC Output Power | 600/790/800/2,500W |
| Max AC Apparent Power | 600/790/800/2,500VA |
| Max AC Output Current | 2.6/3.4/3.5/10.9AAC |
| Rated AC Output Power | 600/790/800/2,500W |
| Rated AC Apparent Power | 600/790/800/2,500VA |
| Rated AC Output Current | 2.6/3.4/3.5/10.9 AAC |
| AC Nominal Output Voltage | L+N+PE 220 Va.c./230 Va.c./240 Va.c., 50 Hz |
| Power Factor Range | 0.8 Lagging - 0.8 Leading |

| AC Output (Off-Grid Terminal) | |
|---|---|
| Max AC Output Power | 2,500 W |
| Max AC Output Current | 10.9 AAC |
| Max AC Bypass Output Power | 3,600 W |
| Max AC Bypass Output Current | 16 AAC |
| AC Nominal Output Voltage | L+N+PE 220 Va.c./230 Va.c./240 Va.c., 50 Hz |
| **Protection** | |
| Overvoltage Protection | Yes |
| Undervoltage Protection | Yes |
| Overcurrent Protection | Yes |
| Short Circuit Protection | Yes |
| Overheating Protection | Yes |
| Overcharge Protection | Yes |
| Overdischarge Protection | Yes |
| Islanding Detection | Yes |
| Insulation Impedance Detection | Yes |
| Surge Protection | Yes |
| **General Parameters** | |
| Dimensions (L×H×D) | 460×305×355mm |
| Weight | 50 kg |
| Protective Class | Class I |
| Ingress Protection | IP66 |
| Inverter Topology | Isolated |
| Wireless Type | Bluetooth, Wi-Fi (2.4 GHz) |
| Operating Temperature Range | -20 to 55 |
| Max Altitude | 4,000 m |
| Warranty | 10 Years |
| Product Lifespan | 15 Years |

# Anker SOLIX BP5000 Expansion Battery

| PV Terminal | |
|---|---|
| Battery Type | LiFePO4/ LFP |
| Battery Nominal Voltage | 16 VDC |
| Max Charge Current | 180 ADC |
| Max Discharge Current | 180 ADC |
| Rated Power (Single Device) | 2,500 W |
| Rated Energy | 5,024 Wh |
| Rated Capacity | 314Ah |
| **General Parameters** | |
| Dimensions (L×H×D) | 460×254×332.5mm |
| Weight | 42 kg |
| Warranty | 10 Years |
| Product Lifespan | 15 Years |
| Protective Class | Class I |
| Ingress Protection | IP66 |
| Operating Temperature Range | -20 to 55 °C |
| Max Altitude | 4,000 m |

### Network Configuration Instructions

Bluetooth Low Energy (BLE) Status: When the equipment is not yet connected to a network, it will automatically enable BLE broadcasting and activate BLE services to provide Bluetooth network configuration capabilities.

**Note:** During the BLE configuration process, ensure your network environment is stable and follow the instructions to complete the setup.

### Port 5353

The primary function of port 5353 (TCP/UDP 5353) in a network is to implement the mDNS protocol for mutual discovery between devices on the local area network (LAN).

Application Scenarios: Multi-device linkage, self-consumption scenarios, and energy scheduling strategies in the LAN.

Access the device via hostname.local on the same local area network without traditional DNS configuration.

mDNS Protocol Characteristics: Using UDP protocol, port 5353 is its standard port, compatible with the standard DNS query format.