

Disclaimer

About This Guide

Unboxing

- Check Before Installation

- In the Solarbank Box

- Optional Accessories

Product Overview

- At a Glance

- Button Controls

- LED Guide

Pre-Installation

- Determine the Stacking Order

- Select an Installation Site

- Tools Not Supplied

Installation

- Precautions

- Step 1. Remove Rubber Plugs

- Step 2. Install Expansion Batteries

- Step 3. Install the Solarbank

- Step 4. Install the Interlocking Kit

Electrical Connections

- Precautions

- Connect to the Ground

- Connect to the Grid

- Connect to PV Modules

- Connect to Your Device

- (Optional) Connect the Communication Cables

- (Optional) Install the Smart Meter

- (Optional) Install the Smart Plug

Device Setup

- Power On / Off

- Confirm Networking Status

Use the Anker App

- Download the Anker App

- Sign Up / Sign In

- Add Device

- Select the Scene

- Initialization Settings

Specifications

- 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

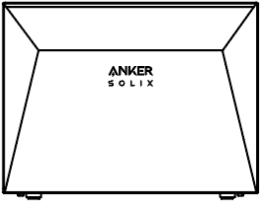
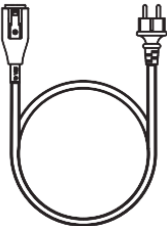
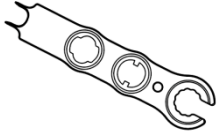
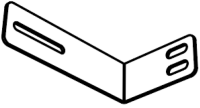
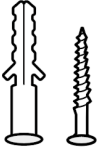
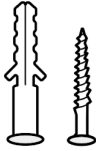
Before unpacking the equipment, check the outer packaging for damage, such as holes and cracks, and review the equipment model number. If any damage is found or the model is not what you requested, do not unpack the equipment and contact Anker customer service as soon as possible.

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.

In the Solarbank Box

Model: AE1033Z1, AE1032Z1

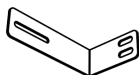
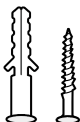
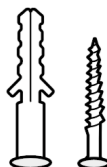
			
Anker SOLIX Solarbank 4 E5000 Pro	AC Cable (3m) *Varies by Region	Wrench for Removing PV Connectors	Documents
Wall Mount Kit			
			
Wall Mount Fitting for Solarbank ×2	Wall Mount Fitting for Expansion Battery×2	Expansion Screw (M6 50 mm) ×4	Screw (M5 10 mm) ×4
Spare Parts			
			
Expansion Screw (M6 50 mm) ×2	Screw (M5 10 mm) ×2		

Optional Accessories

The following accessories must be ordered separately.

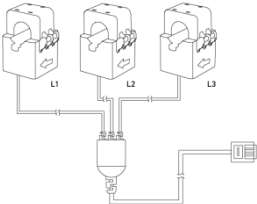
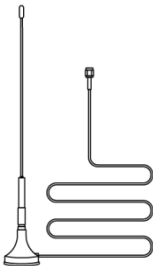
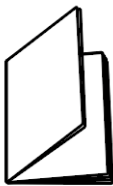
Anker SOLIX BP5000 Expansion Battery

Model: AE1033Z1-85

		Interlocking Kit		
				
Anker SOLIX BP5000 Expansion Battery	Documents	Fixed Bracket ×2	Screw (M5 10 mm) ×2	
Wall Mount Kit		Spare Parts		
				
Wall Mount Fitting for Expansion Battery×2	Expansion Screw (M6 50 mm) ×2	Screw (M5 10 mm) ×2	Expansion Screw (M6 50 mm) ×2	Screw (M5 10 mm) ×2

Anker SOLIX Smart Meter

Model: A17X7

			
Anker SOLIX Smart Meter	Current Transformers	Extension Antenna	Documents

Anker SOLIX Smart Meter Gen 2

Single-Phase

Model: AE1X0310

Anker SOLIX Smart Meter Gen 2 (Single-Phase)	2× 63A Single CT Cable Assembly	Extension Antenna	Documents

Three-Phase

Model: AE1X0311

Anker SOLIX Smart Meter Gen 2 (Three-Phase)	63A Three CT Cable Assembly	Extension Antenna	Documents

Anker SOLIX Smart Plug

Model: A17X8

Anker SOLIX Smart Plug	Documents

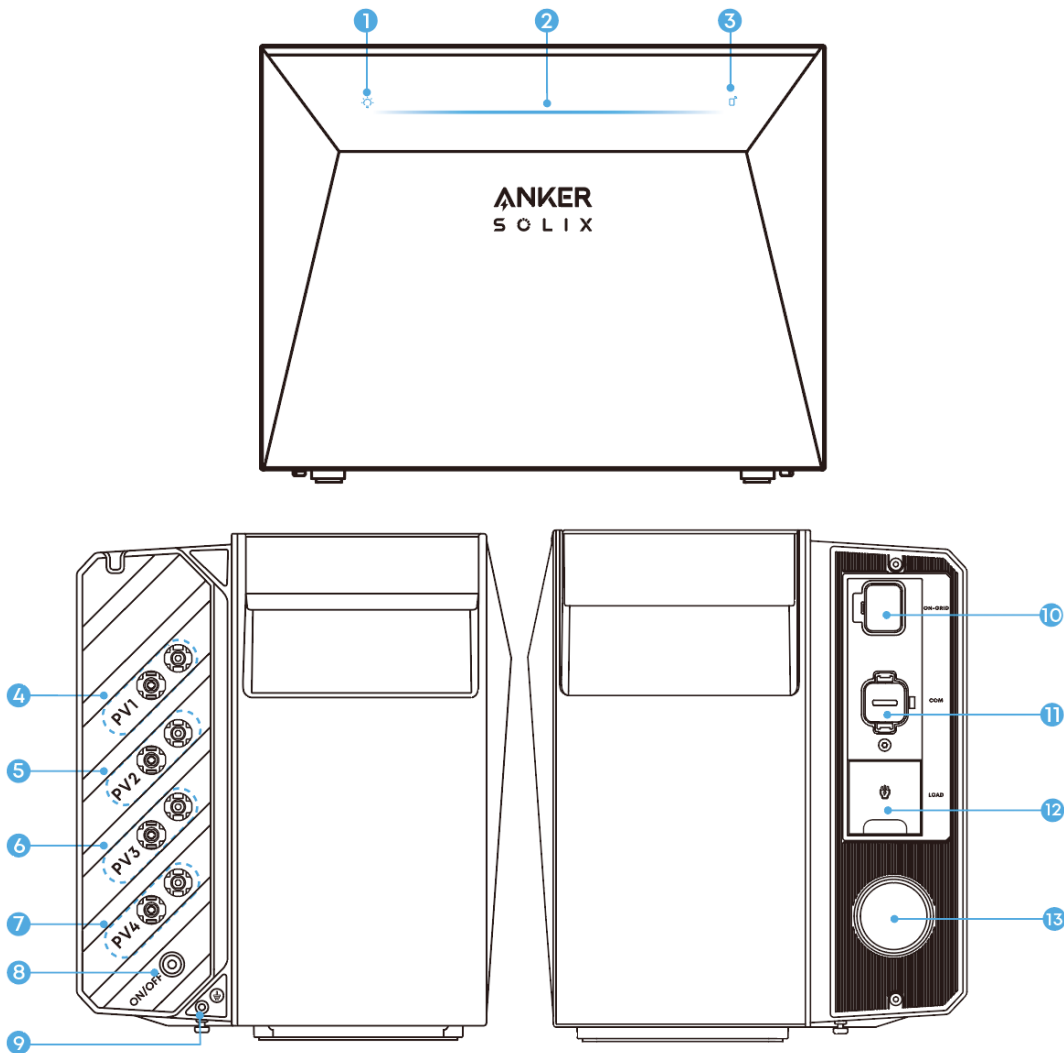
Anker SOLIX Smart Plug Gen 2

Model: A17X8312

Anker SOLIX Smart Plug Gen2	Documents

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
ON/OFF 	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.

LED Guide

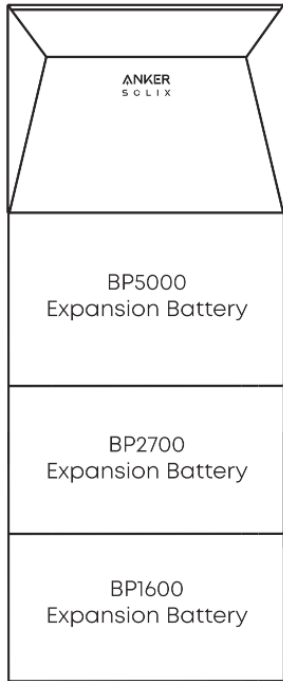
Button	Description	Status
	Flashing blue	Internet connection enabled / reset
	Off	Internet connection disabled

Description	Status
The light bar converges inward several times, then expands outward to full illumination.	Powered on
The lights on both sides fade toward the center.	Powered off
The light blinks slowly.	Establishing Bluetooth / Wi-Fi Connection
The light runs from left to right.	Upgrading firmware
The light flashes red.	Error

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.

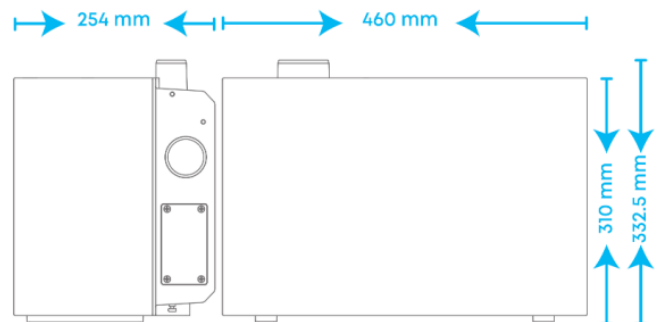
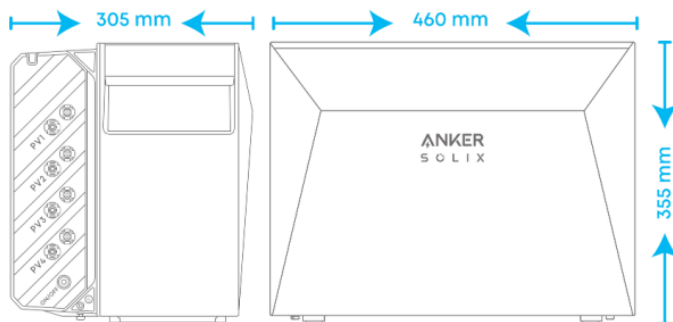


Select an Installation Site

Equipment Dimensions

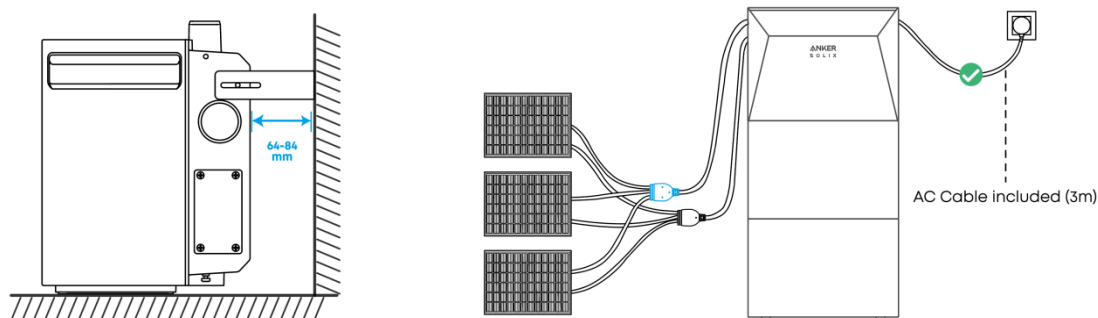
Solarbank: 460 (W) × 305 (D) × 355 (H) mm

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



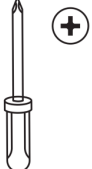
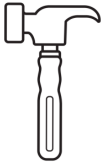
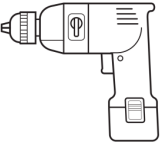
Environmental Requirements

- Do not place the modules near an area exposed to direct sunlight, fire, or explosive materials.
- Ensure 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.

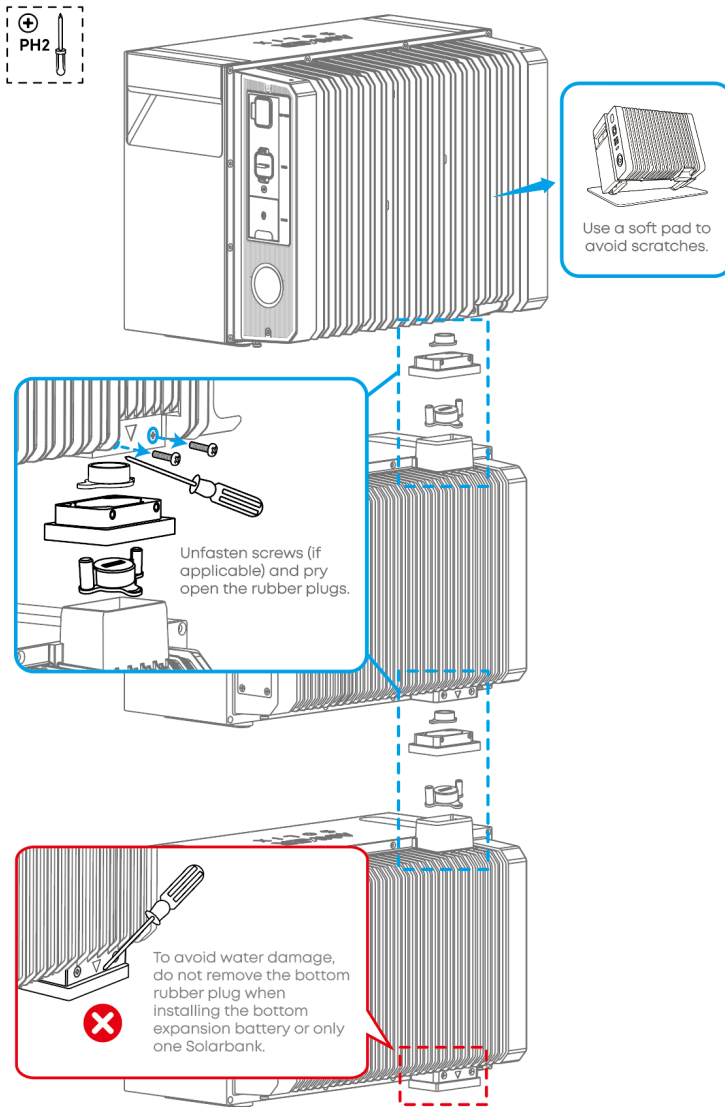
		
Pen	Phillips Screwdriver (PH1 and PH2)	Insulating Gloves
		
Hammer	Power Drill (Drill Bit: 8 mm)	

Installation

Precautions

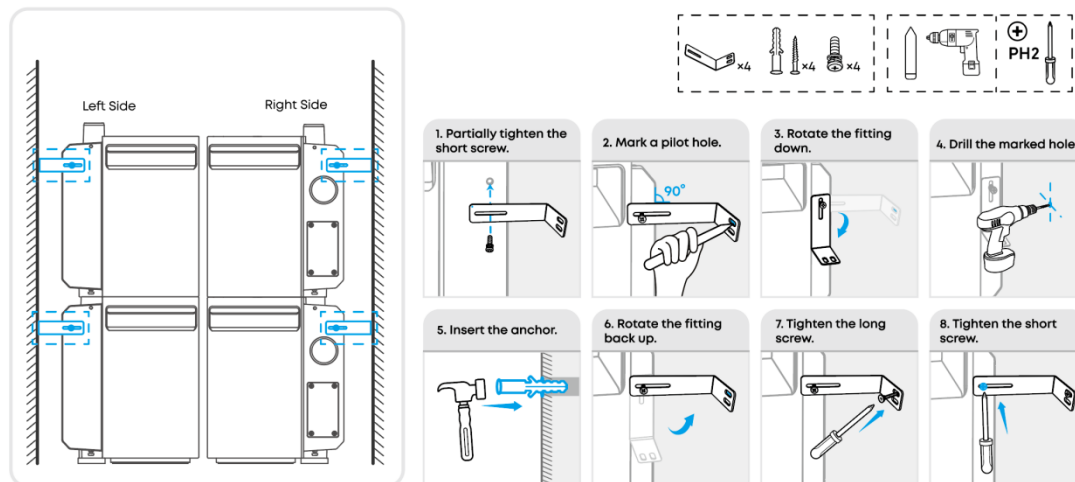
- The following steps describe how to install one Solarbank and two expansion batteries (BP500) as an example.
- Ensure Solarbank is off during installation.

Step 1. Remove Rubber Plugs



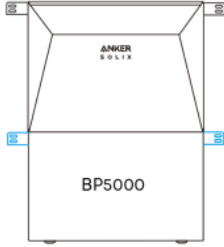
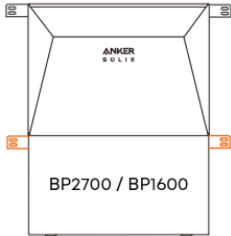
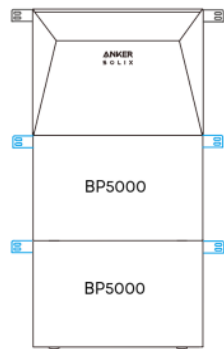
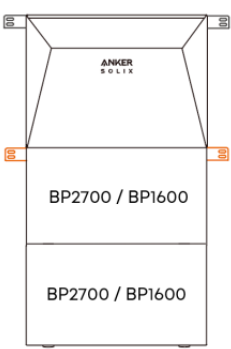
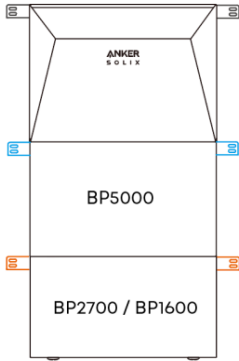
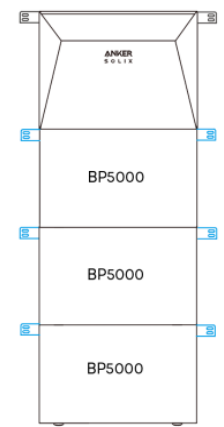
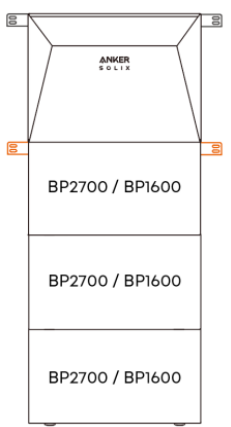
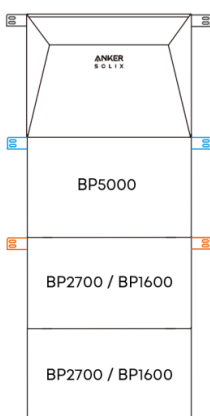
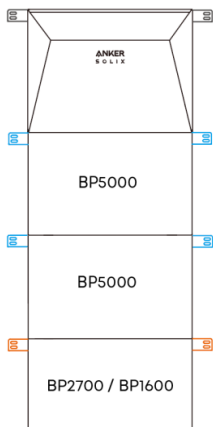
Step 2. Install Expansion Batteries

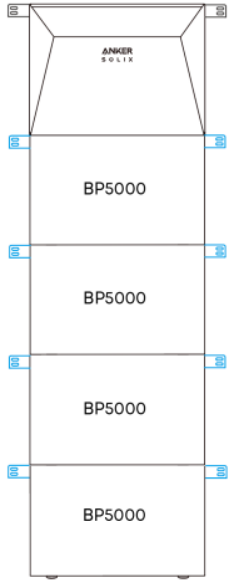
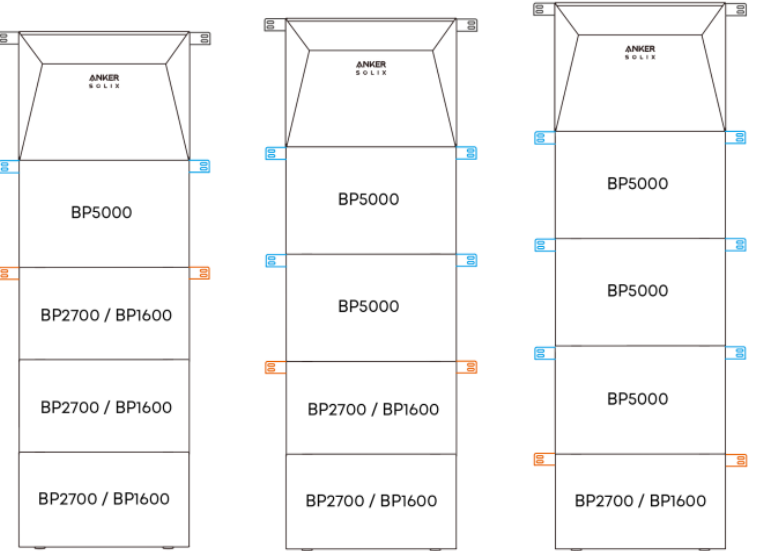
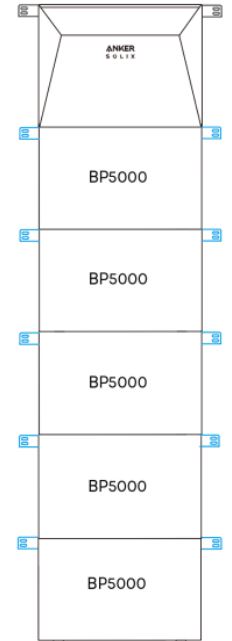
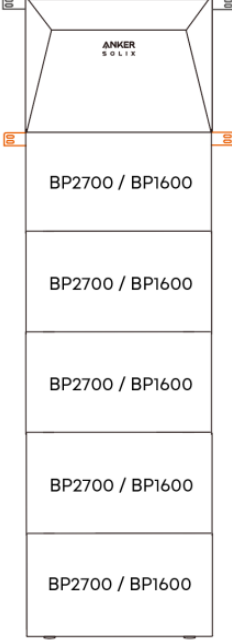
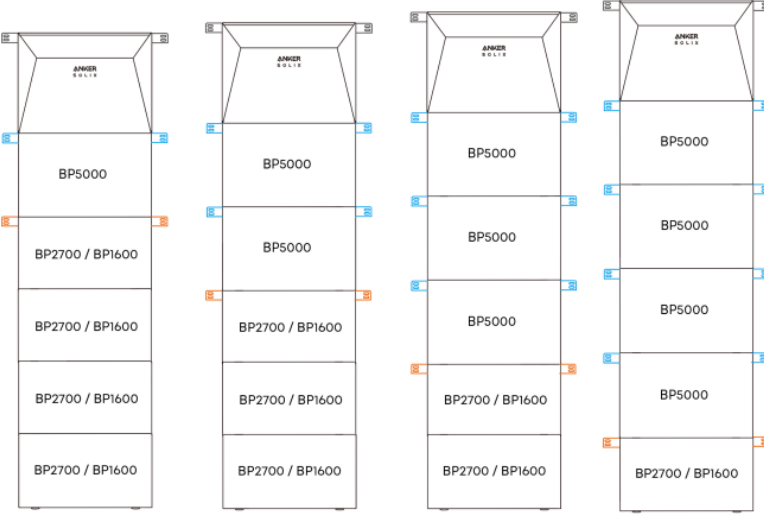
- Stack the expansion batteries in sequence by inserting the two corresponding ports into each other.
- After stacking each expansion battery, attach the wall mount fittings to both sides of the unit to secure it.



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 (included with BP5000 Expansion Battery) to every expansion battery.
Only BP2700 / BP1600	Attach the wall mount fittings (included with Solarbank 4 E5000 Pro) to the first expansion battery under Solarbank. Extra fittings are not needed for other expansion batteries.
BP5000+ BP2700 / BP1600	Attach the wall mount fittings (included with Solarbank 4 E5000 Pro) to the first expansion battery under BP5000 Expansion Battery. Attach the wall mount fittings (included with BP5000 Expansion Battery) to every BP5000 Expansion Battery.

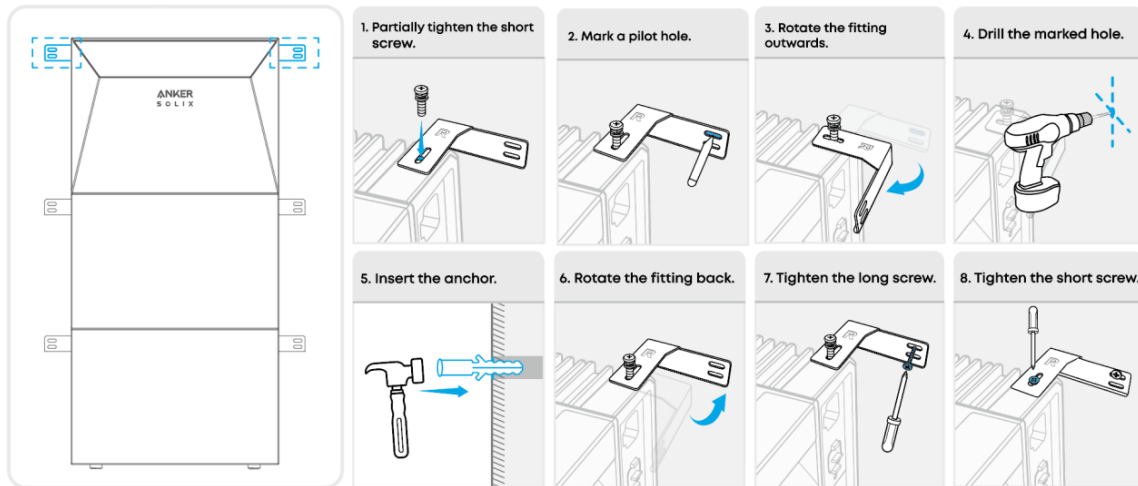
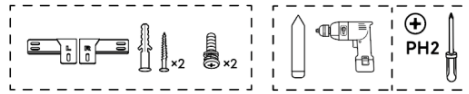
	Only BP5000	Only BP2700 / BP1600	BP5000+ BP2700 / BP1600	
	Fittings in Blue : included with BP5000 Expansion Battery Fittings in Orange : included with Solarbank 4 E5000 Pro			
1				
2				
3			 	

4						
5						

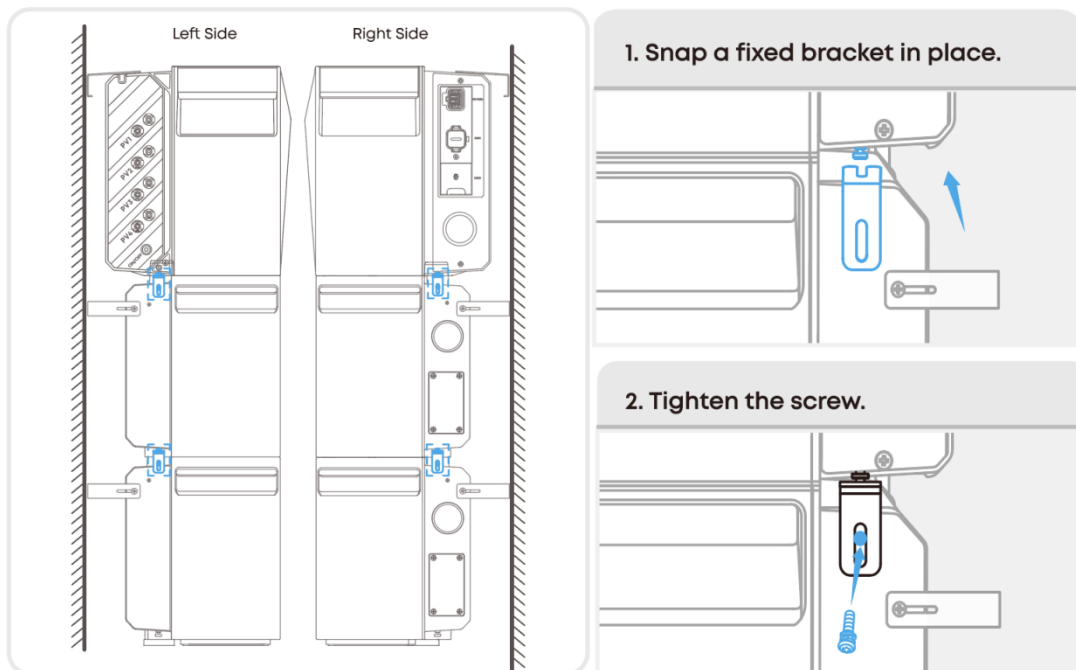
Step 3. Install the Solarbank

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.



Step 4. Install the Interlocking Kit



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



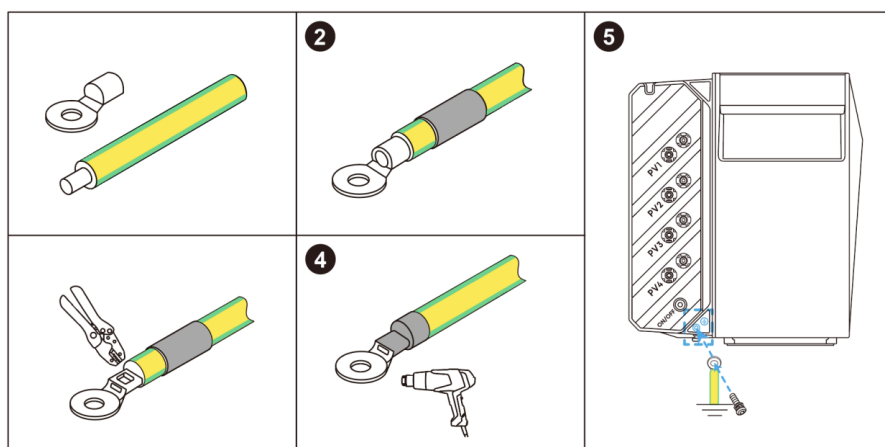
Solarbank must be connected to the external ground point, otherwise there is a risk of electric shock.

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	1 mm ² , yellow/green
Ring terminal	Suitable for the 1 mm ² GND cable and the M5 screw
Heat shrink tubing	Caliber: 8 mm; 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.



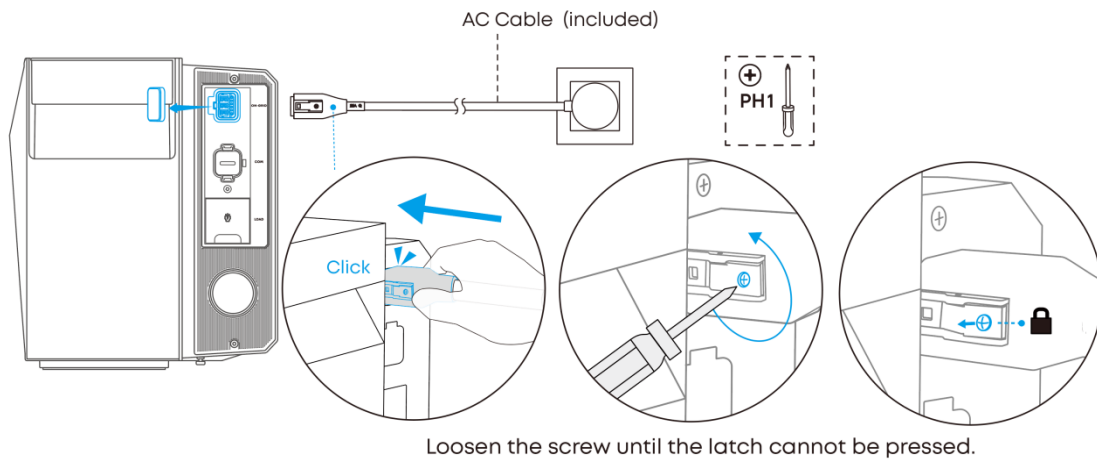
Connect to the Grid

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.
3. Loosen the screw on the connector until the latch cannot be pressed.



Option 2: Via Wieland Socket



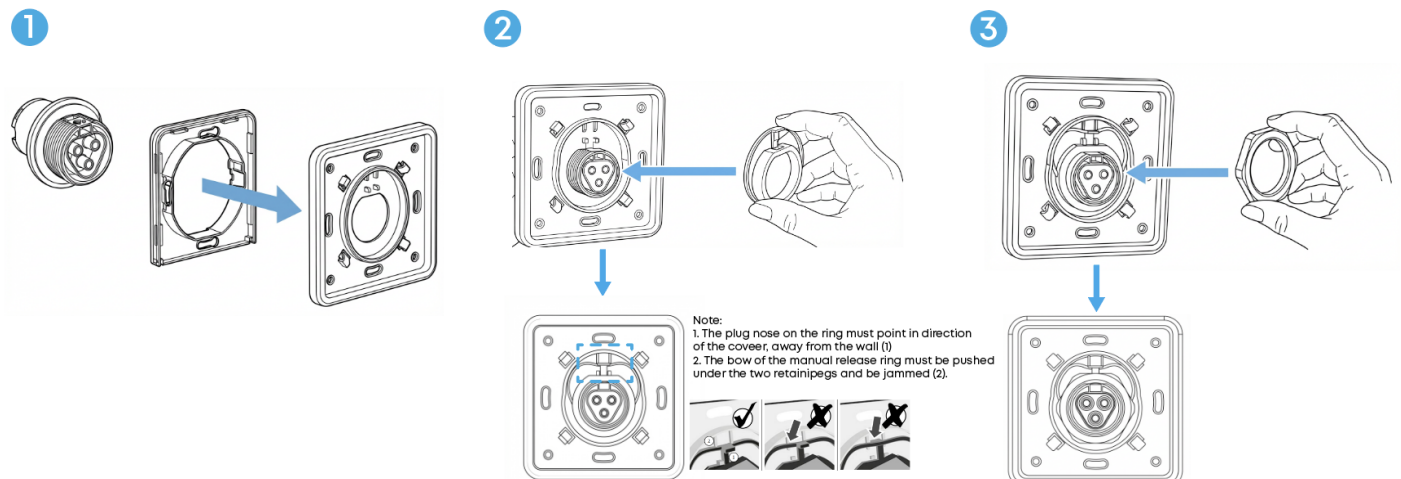
Wieland Socket Kit is sold separately.



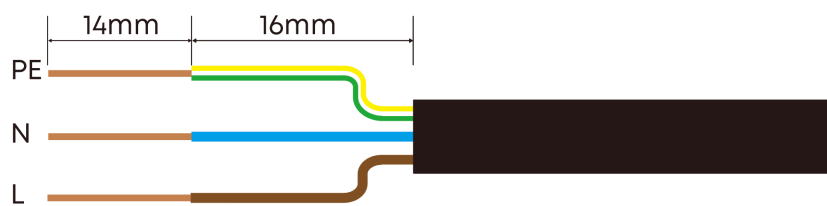
CAUTION

- 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.

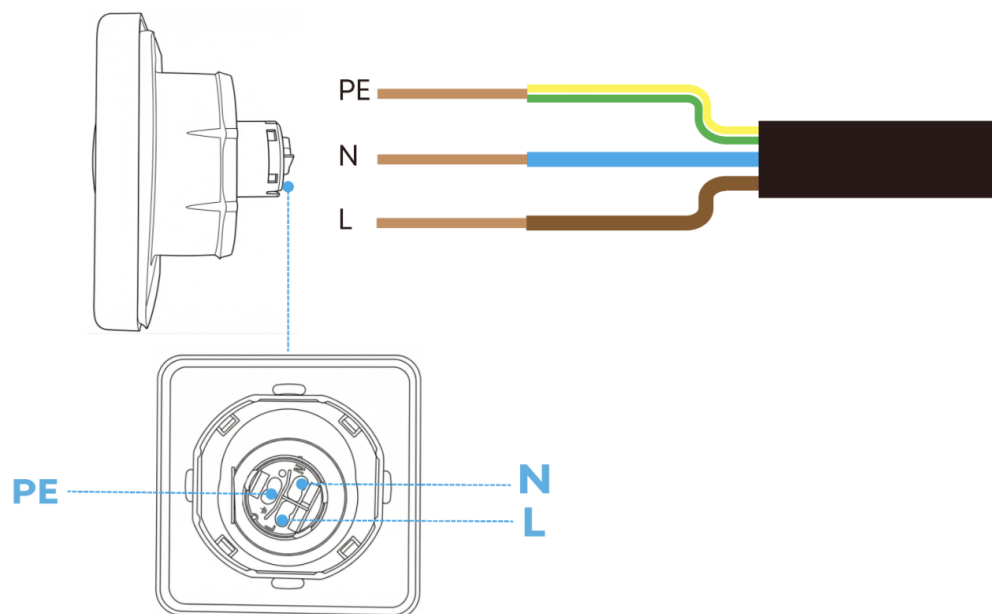
1. Assemble the socket panel.



2. Strip insulation layers.

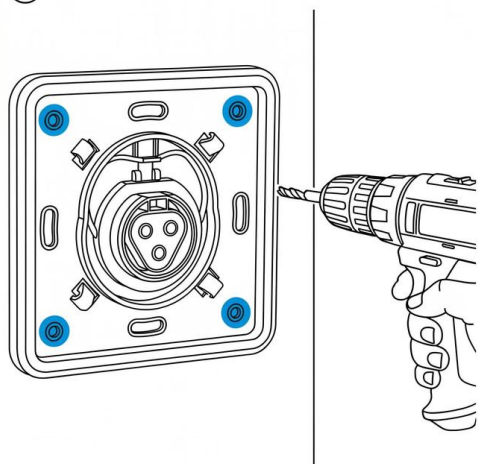


3. Connect cables to the connector.

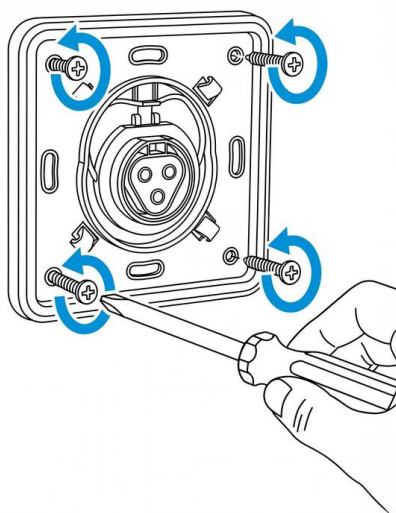


4. Secure the panel to the wall.

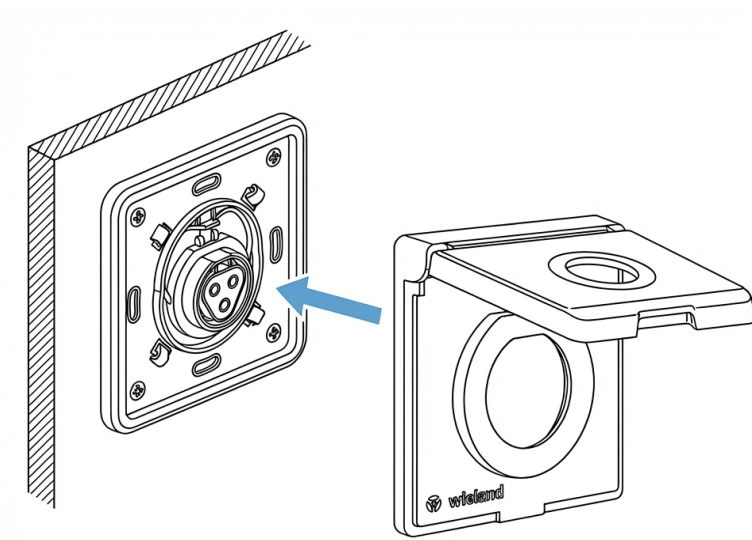
①



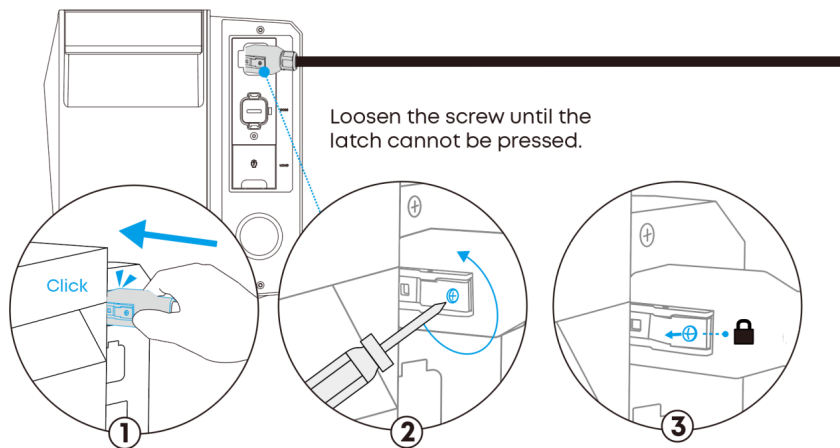
②



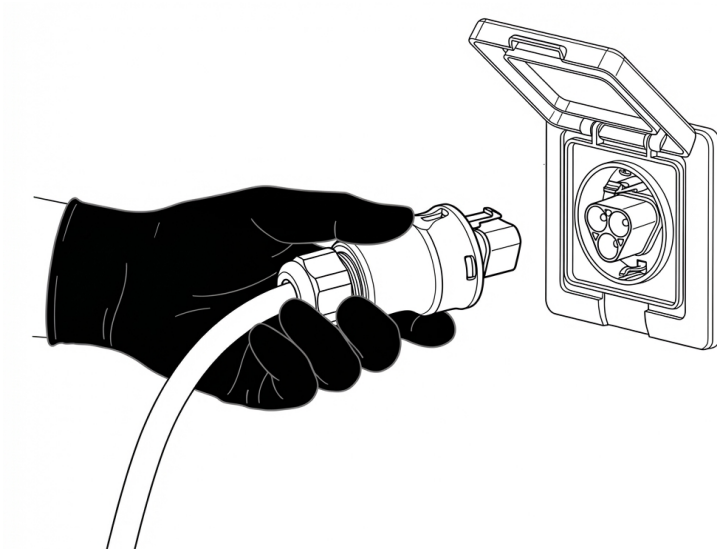
5. Snap the front cover onto the assembled panel.



6. Fully insert the AC connector into the main module.



7. Plug AC Cable with Wieland Plug into the dedicated circuit socket.



Option 3: Via Main Panel



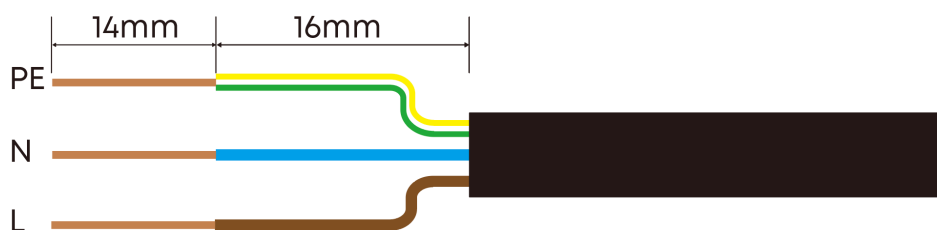
The AC Connection Terminal is sold separately.



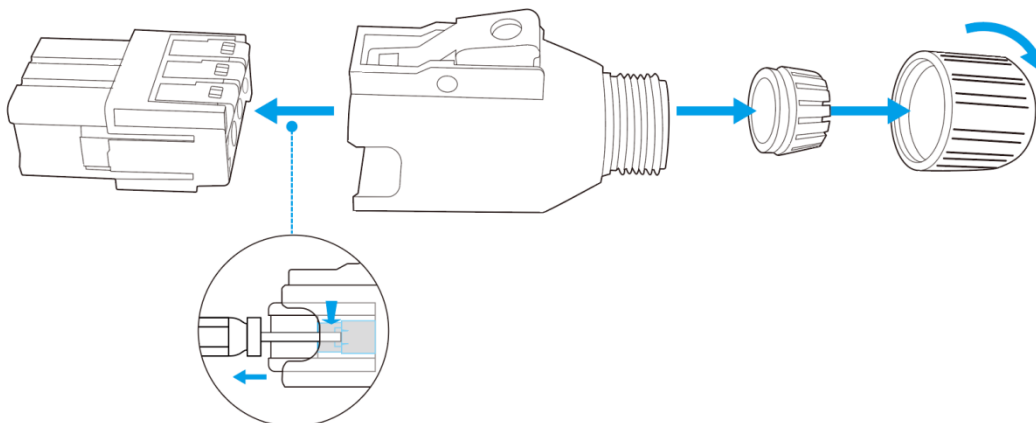
CAUTION

- 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.

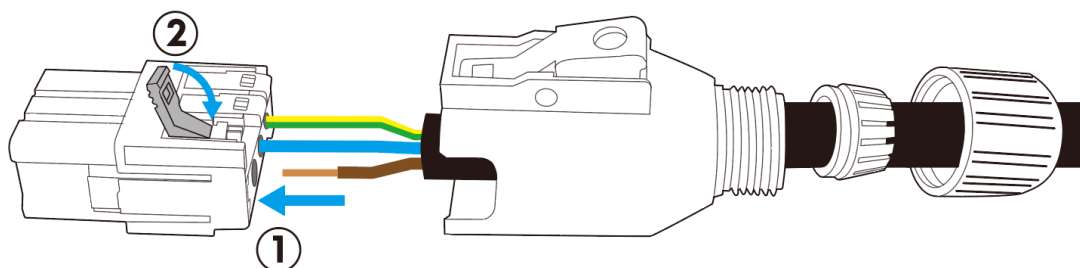
1. Strip insulation layers.



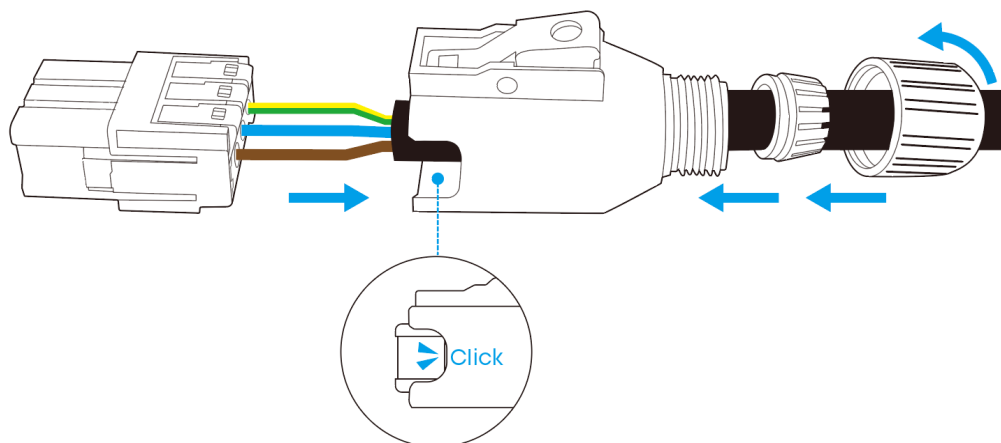
2. Disassemble the AC connector.



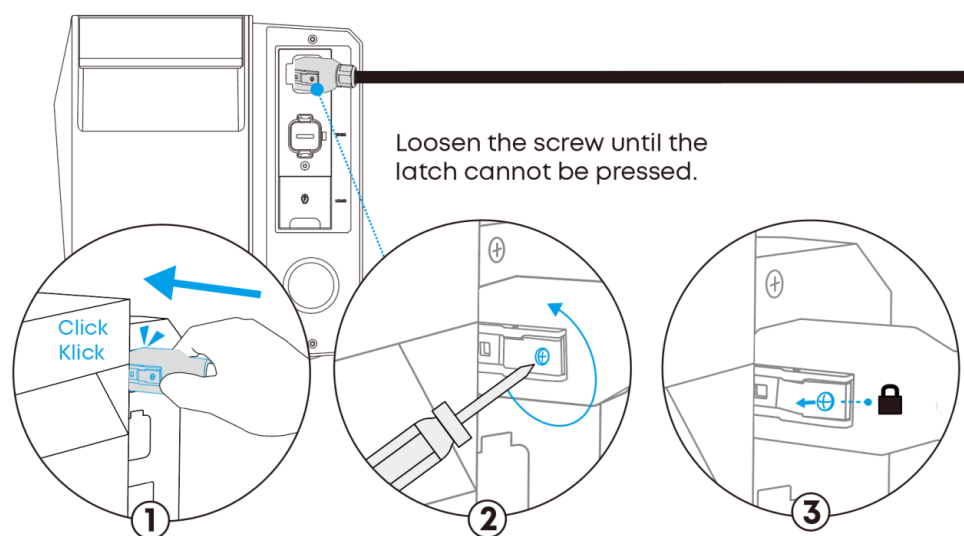
3. Connect cables to terminals.



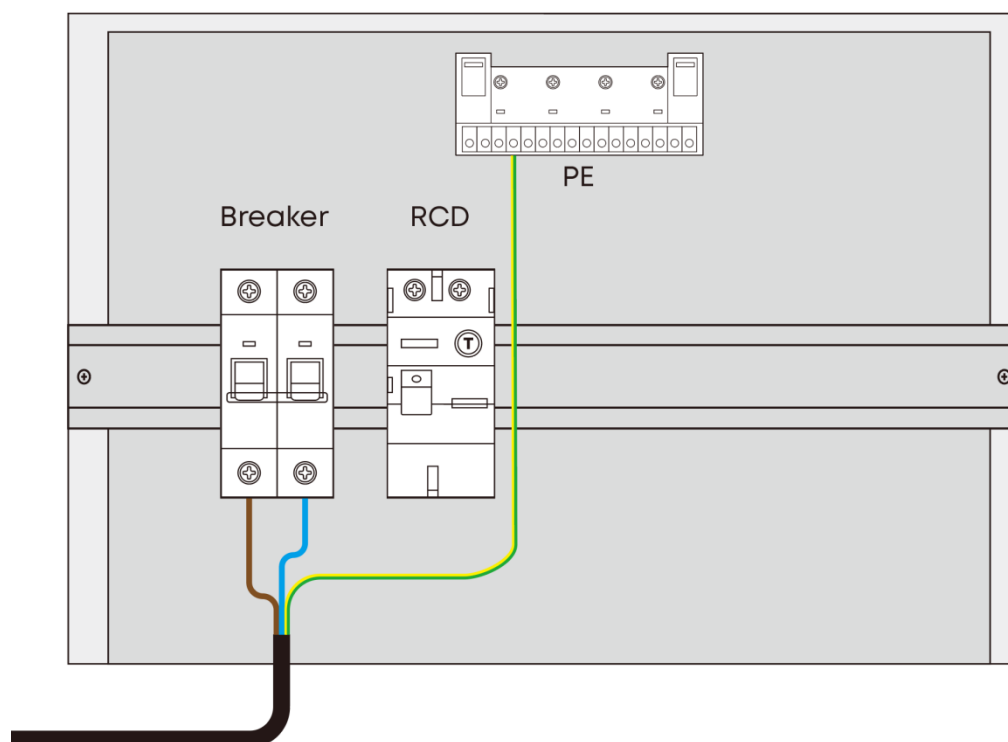
4. Assemble the AC connector



5. Fully insert the AC connector into the main module.



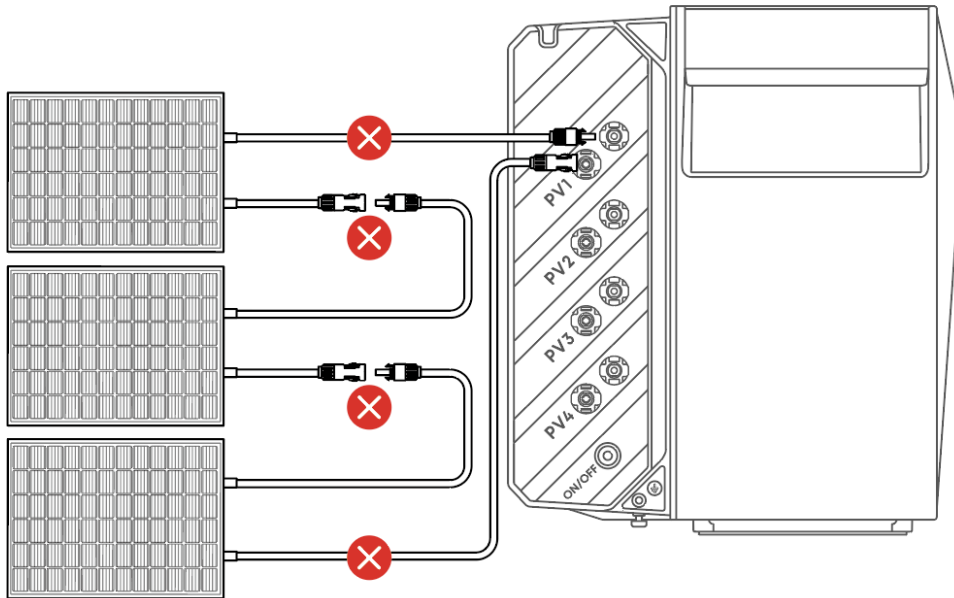
6. Connect the other ends of the power cables to the main panel.



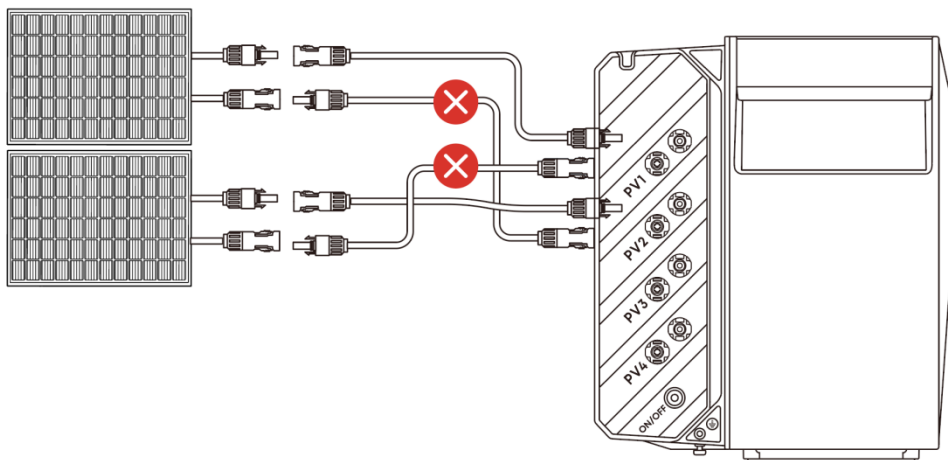
Connect to PV Modules



- 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 40A.
- It is recommended to use PV cables shorter than 3 m. Longer cables may cause interference to certain electronic devices.
- Never connect two or more PV modules in series because this causes the input voltage to exceed 60V and will damage the equipment.

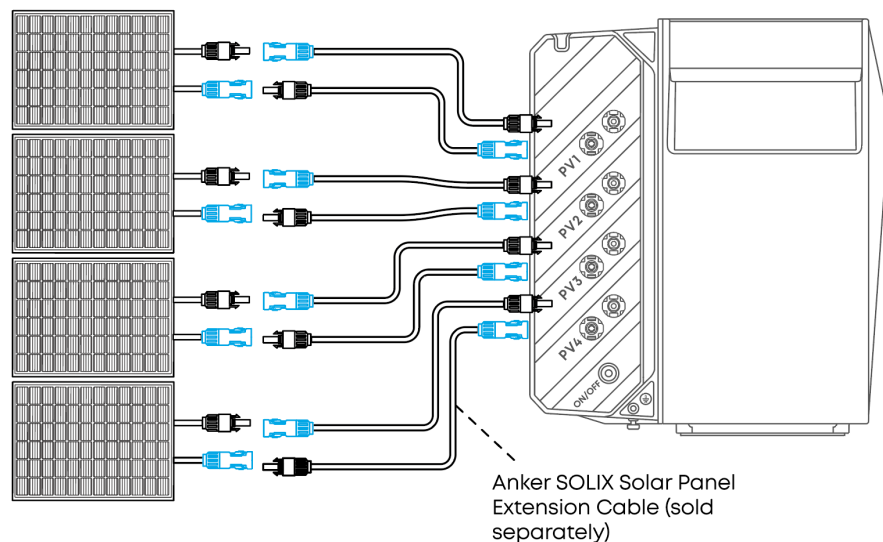


Never connect the same set of PV connectors to different sets of PV input ports. For instance, connecting the positive connector of PV Module 1 to the negative PV2 input port of Solarbank is prohibited.



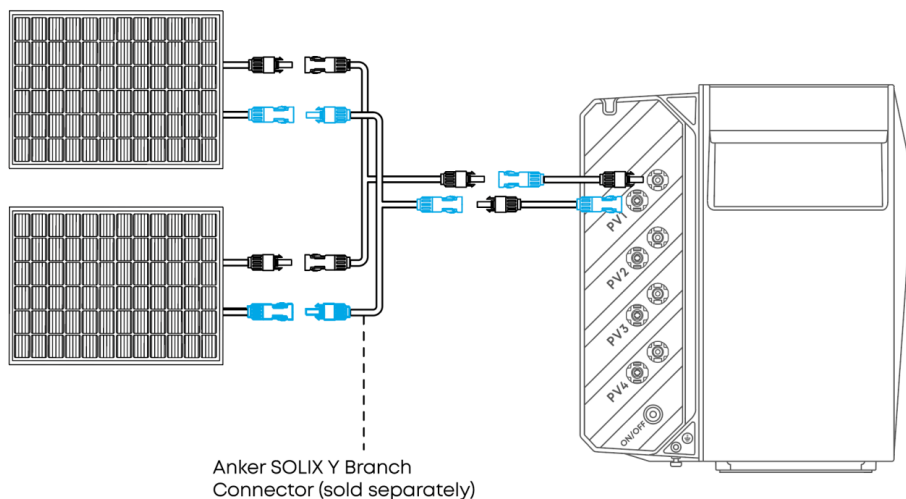
Direct Connection (Up to 4 PV Modules)

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



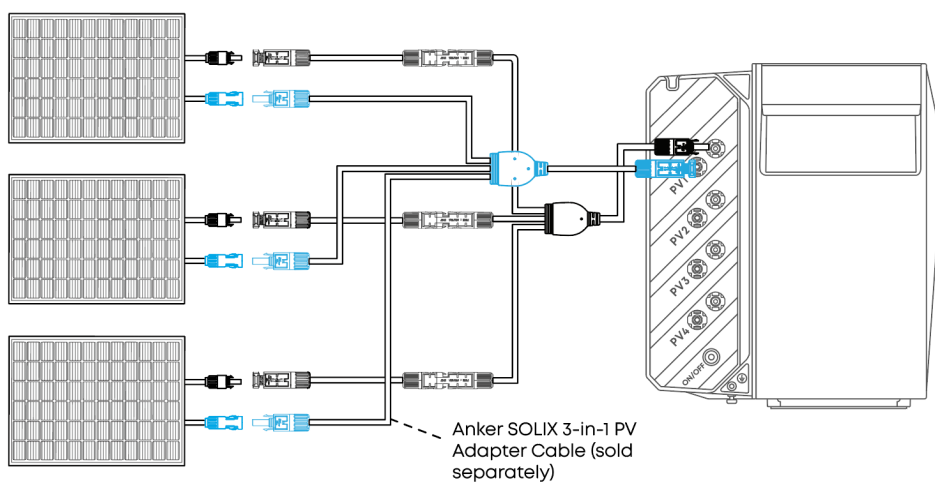
Parallel Connection (Up to 8 PV Modules)

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.



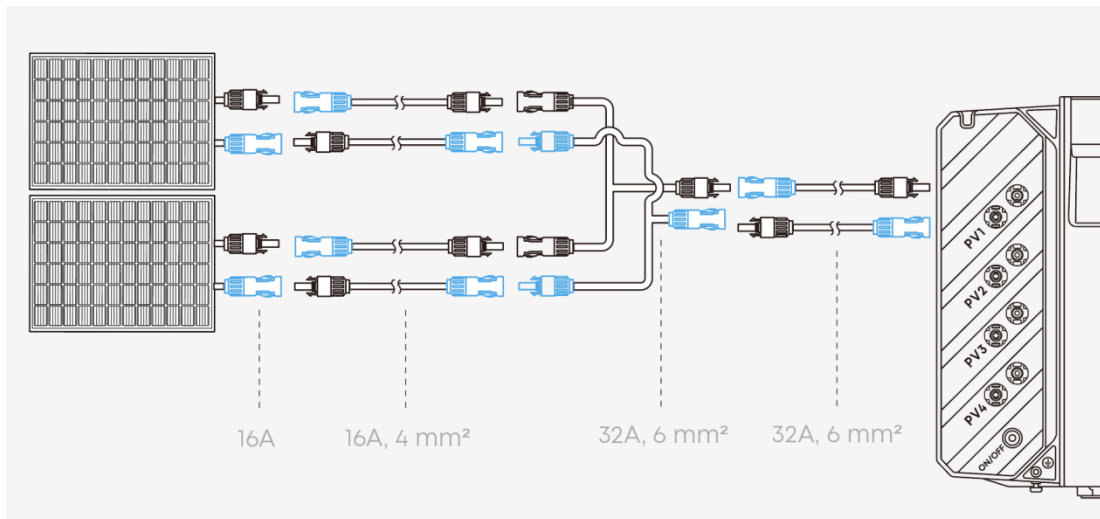


Third-Party Solar Cable Requirements

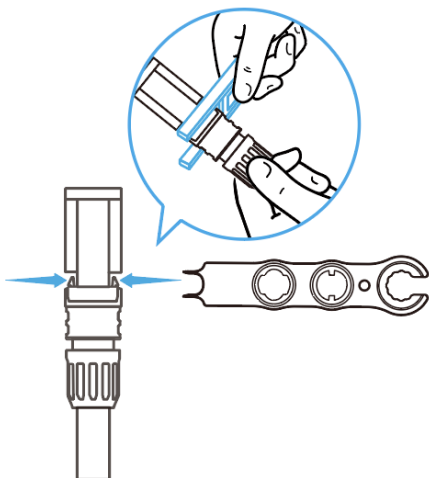
When using third-party solar cables with your Solarbank, ensure that each cable meets the following specifications.

Current	Conductor Cross-Sectional Area
$\leq 25\text{A}$	4 mm^2
25A to 35A	6 mm^2

Example: The figure below shows solar cable specifications for a PV module with 16A DC output per port.



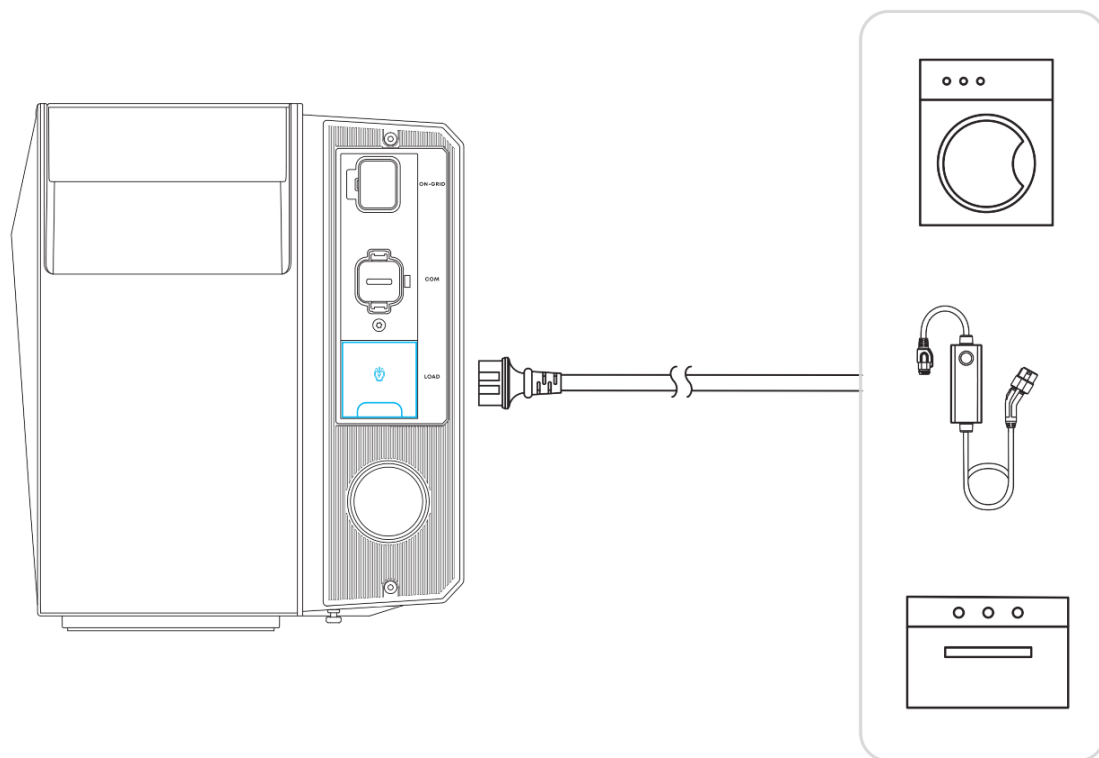
To disconnect the PV connectors, use the included wrench.



Connect to Your Device

Power your device directly using the backup terminal if needed.

Insert the plug fully into the terminal.



(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 equipments over RS485
9	RS485- Others	
10	CAN3 H	Used to connect the combiner box

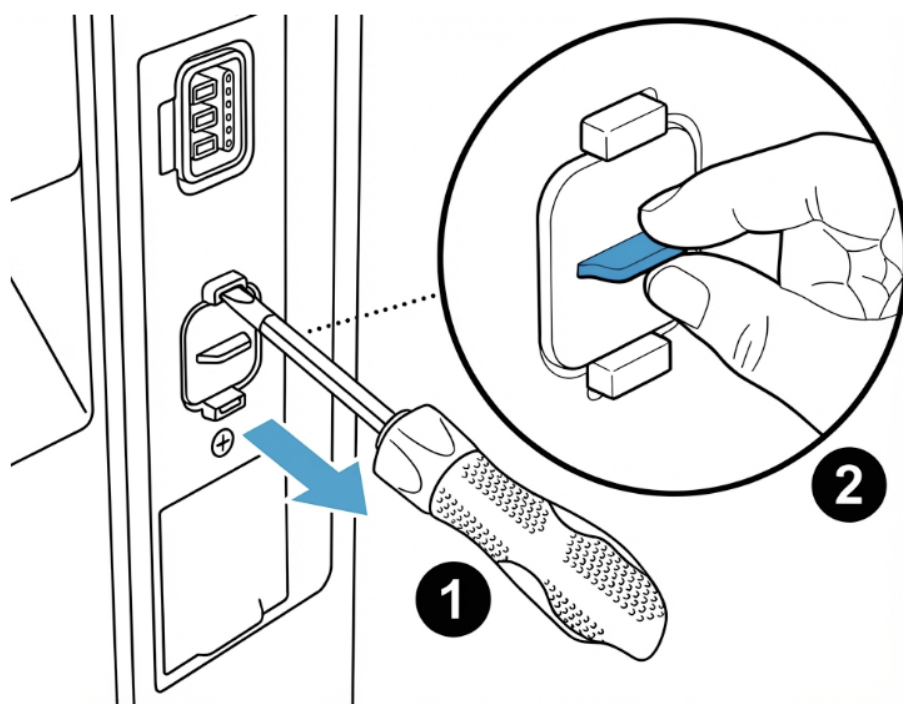
11	CAN3 L	
12	DRM8 ARM+	Rapid Shutdown
13	DC ISO GND1	
14	DC ISO GND1	DI-
15	DC ISO GND1	DI-
16	DRMO ARM+	DI+

Connect the Communication Cable

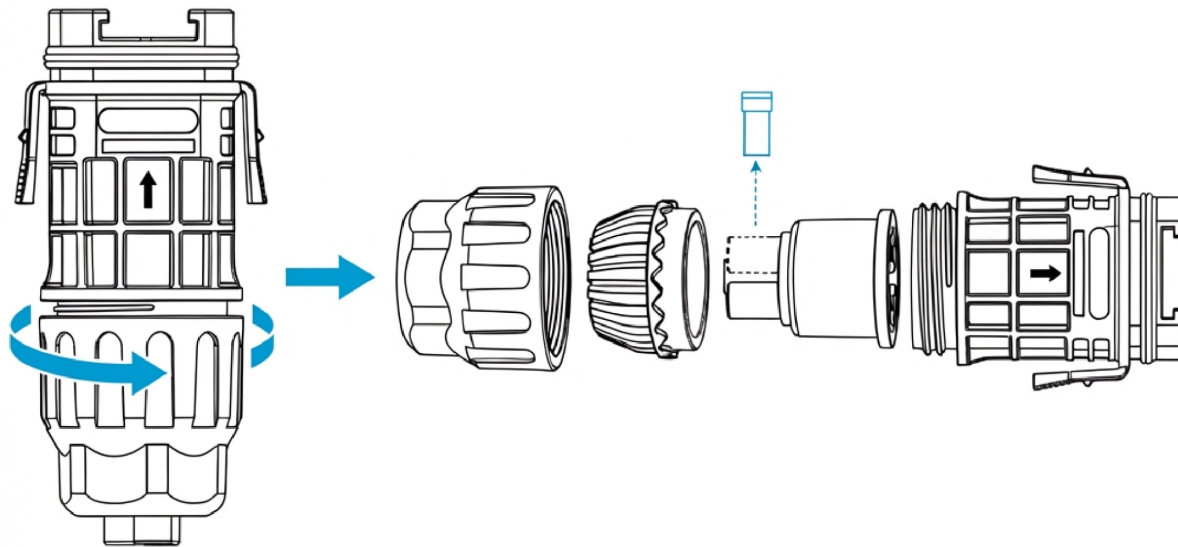


The method to connect different communication cables is the same. This section takes connecting the RS485 cable as an example.

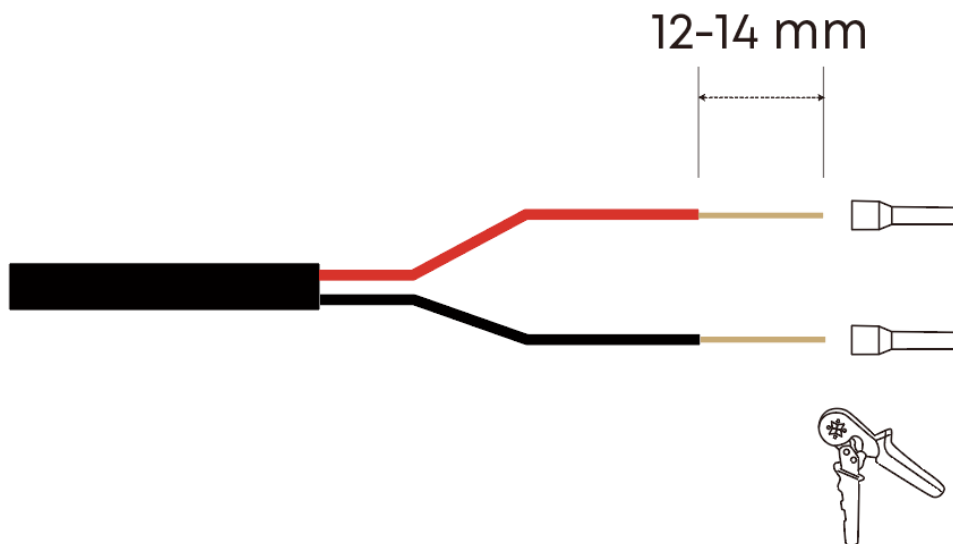
1. Use a flathead screwdriver to pry the top and bottom tabs of the cover to release it. Then pinch the tabs and pull the cover out of the COM port.



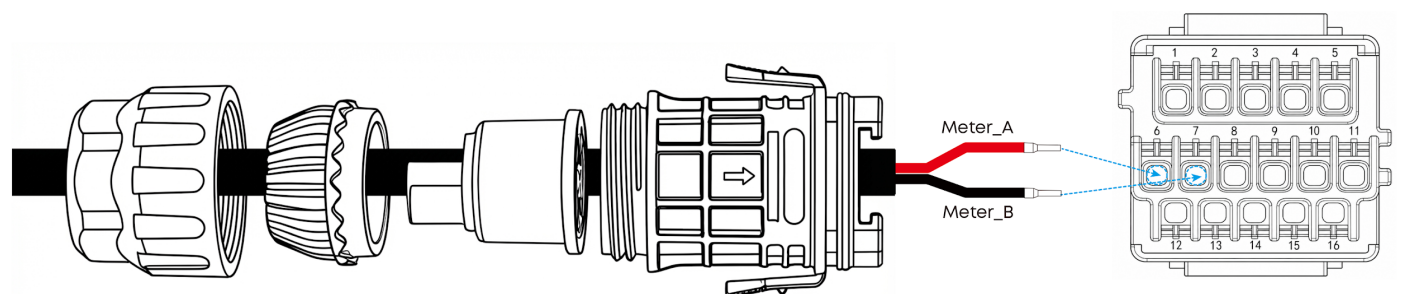
2. Disassemble the COM connector and take out a waterproof plug.



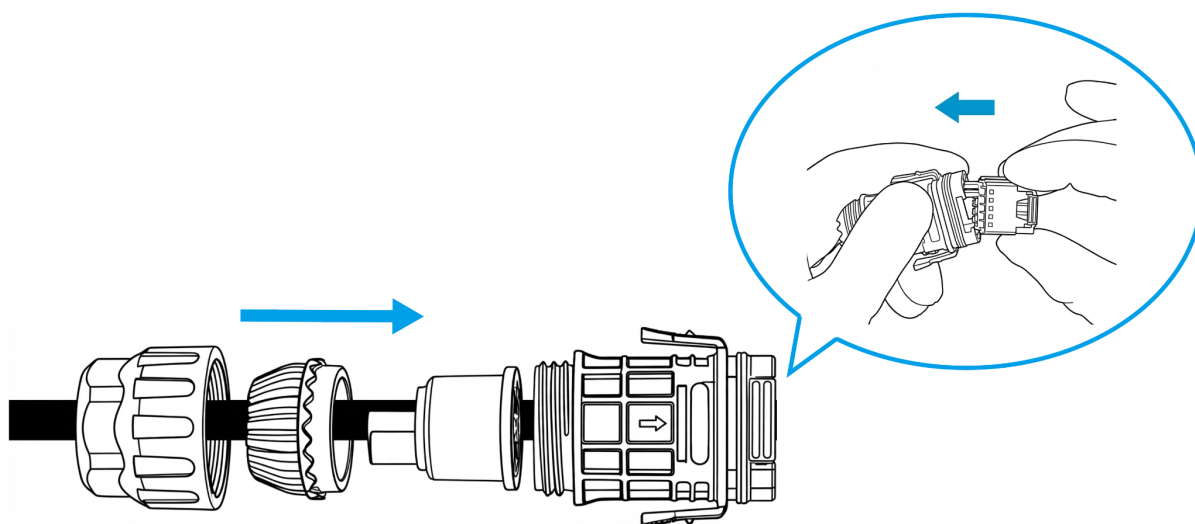
3. Crimp the RS485 Cable.



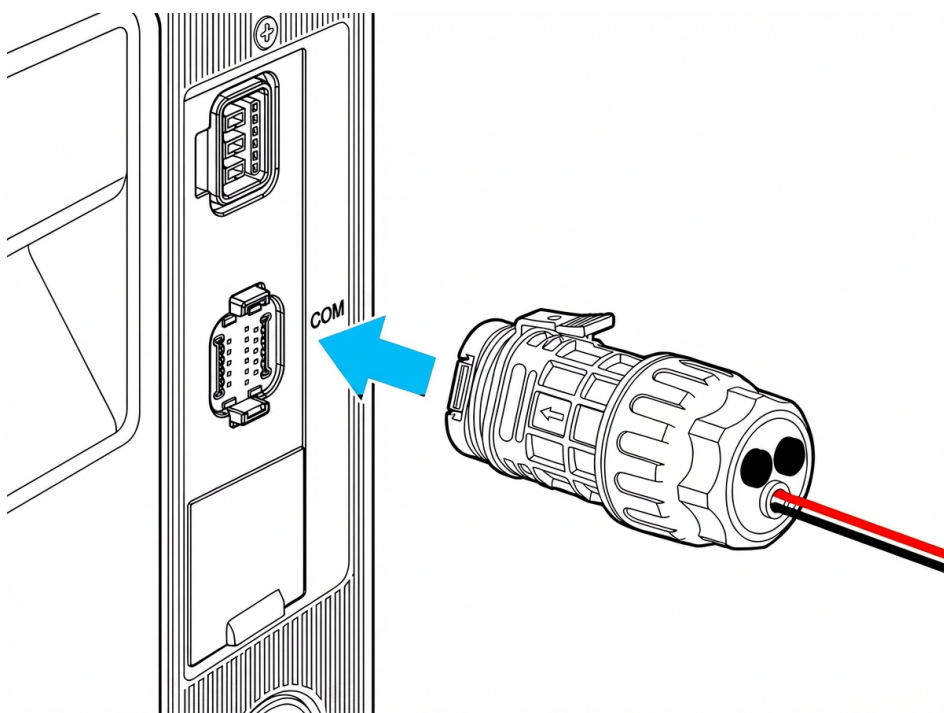
4. Route the RS485 cable through the connector and insert the tube terminals into the 16-pin terminal block connector.



5. Assemble the COM connector.



6. Fully insert the COM connector into the solarbank.



(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 \(A17X8\)](#)

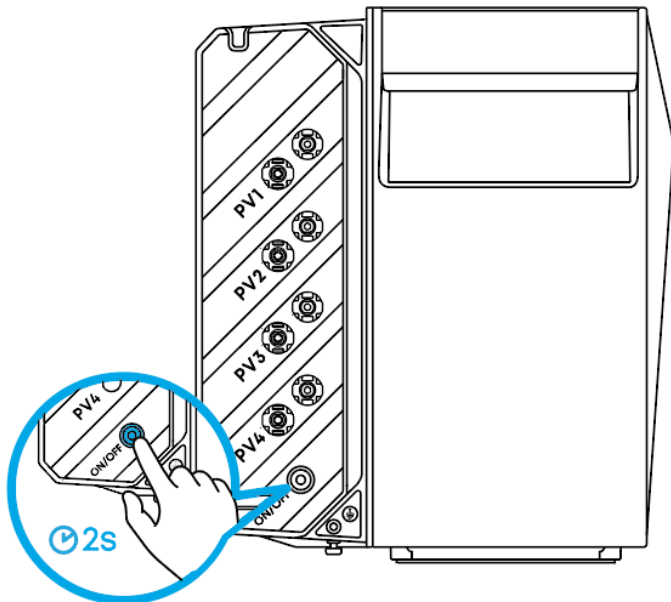
[Anker SOLIX Smart Plug Gen 2 User Guide \(A17X8312\)](#)

Device Setup

Power On / Off

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

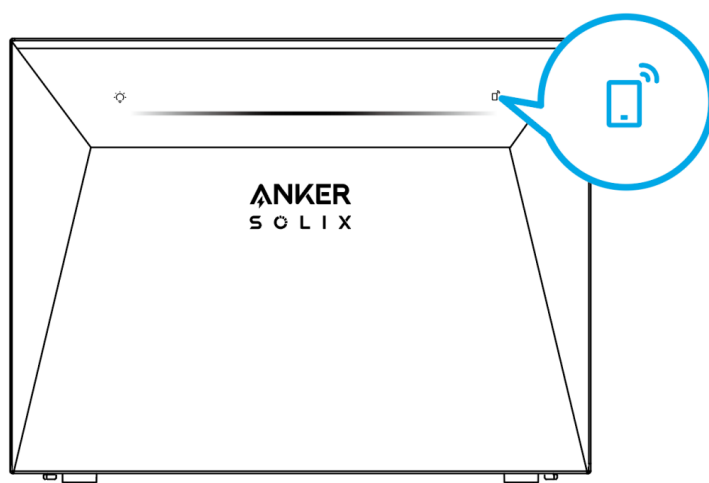
- **With solar or AC input:** Solarbank turns on automatically. To turn it off, disconnect it from both the PV modules and the home outlet, and then press the power button for 2 seconds.
- **Without solar and AC input:** Press the power button for 2 seconds to turn Solarbank on or off.



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.

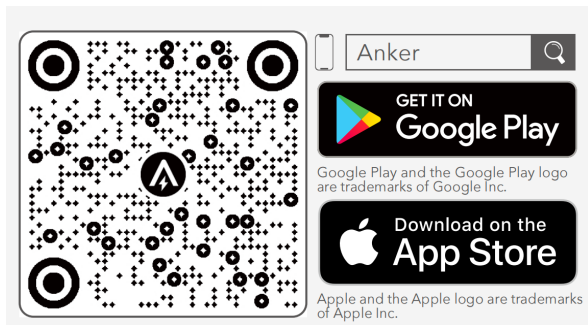


Use the Anker App

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.

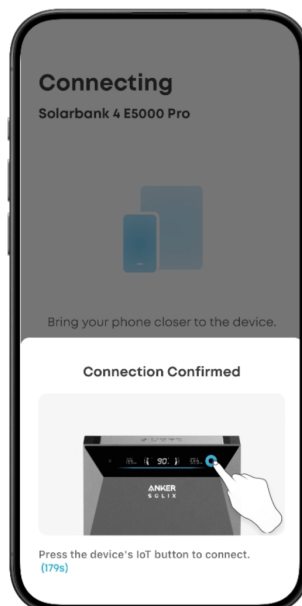
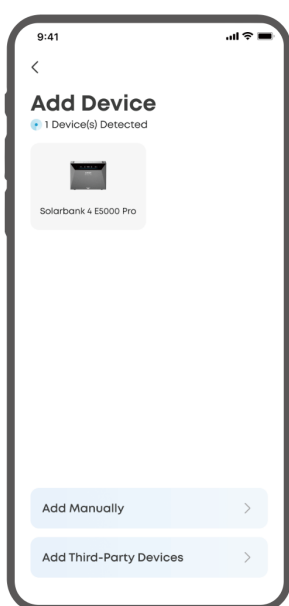
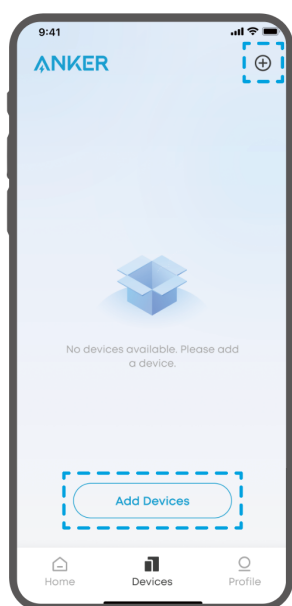


Sign Up / Sign In

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.

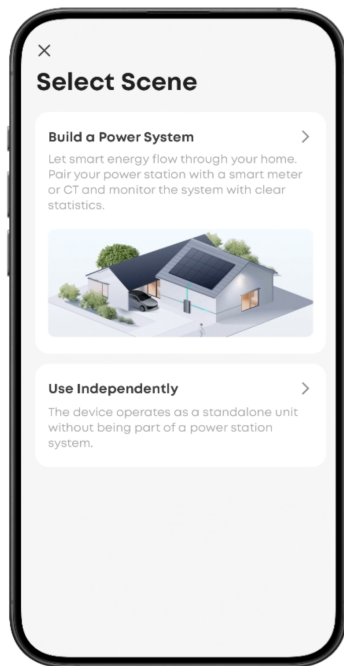
Add Device

- 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.



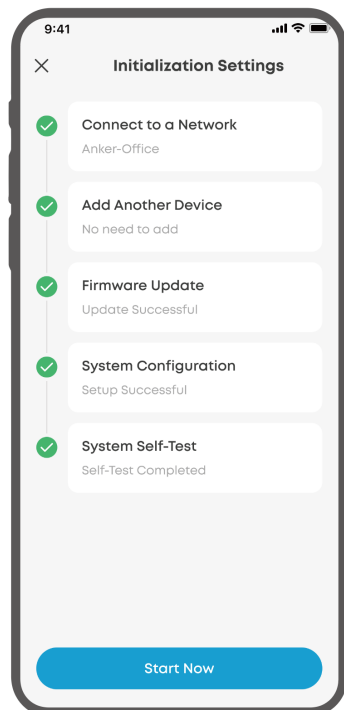
Select the Scene

Select **Build a Power System** or **Use 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.



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, 220VAC / 230VAC, 50Hz
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	2.6/3.4/3.5/10.9AAC
AC Nominal Output Voltage	L+N+PE, 220 / 230 VAC, 50Hz
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 / 230 VAC, 50Hz
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.