Manuals+ — User Manuals Simplified.

ZENDURE Hyper 2000 Hybrid Inverter Multi Sets Coordination Plug In Solar System User Manual

Contents

ZENDURE Hyper 2000 Hybrid Inverter Multi Sets Coordination Plug In Solar System

Product Specifications

- **Model:** Hyper 2000 Hybrid Inverter
- **Manufacturer:** Zendure
- **Input Voltage:** AC 110-240V
- **Output Voltage:** AC 220V
- **Output Power:** 2000W

Product Usage Instructions

Safety Instructions

Read all safety guidelines, warnings, and other product information in this manual carefully. Users take full responsibility for the safe usage and operation of this product.

1. Read all up-to-date documents carefully before installing, using, or servicing the product.
2. Check for any damage, cracks, leaks, or overheating before use.
3. Avoid direct sunlight during operation to prevent overheating.
4. Do not place near heat sources.
5. Follow the user manual for proper installation.

FAQ

Return, Refund, and Warranty Policy

Please scan the QR code provided for the most current information on the return, refund, and warranty policy.

Contact Information for Product Warranty

If you have questions or need to claim the product warranty, scan the QR code to visit the Zendure help center and submit a ticket.

Disclaimer

Users are responsible for complying with all relevant regulations and using Zendure products in a compliant manner.

Product Warranty

Contact US/Claim the Product Warranty

If you have any questions or need to claim the product warranty, please scan the QR code below to visit the Zendure help center and submit a ticket.

DE   FR、EU

Return, Refund and Warranty Policy

Please scan the QR code below for always up-to-date information on the details of the return, refund, and warranty policy for your product.

DE   EU   FR

Disclaimer

- Read all safety guidelines, warnings, and other product information in this manual carefully, and read any labels or stickers attached to the product before using.
- Users take full responsibility for the safe usage and operation of this product. Familiarize yourself with relevant regulations in your area.
- You are solely responsible for being aware of all relevant regulations and using Zendure products in a compliant way.
- Keep this manual for future reference.

Safety Instructions

Usage

1. Read all up-to-date documents carefully before installing, using, or servicing the product. Documentation is subject to change over time.
2. Please check whether the Hyper 2000 hybrid inverter is damaged, cracked, leaking liquids, becoming hot, or exhibiting other abnormalities, and check any cables for damage before operating. If there are any problems, please stop using the product immediately and contact our customer service.
3. Do not place heavy objects on top of the Hyper 2000 hybrid inverter.
4. Make sure all cords and plugs are intact and dry before connecting to avoid electric shock.
5. Do not install or operate the system under extreme climatic conditions such as lightning, snow, heavy rain, strong winds, etc.
6. To reduce the risk of injury, close supervision is necessary when the product is used near children.
7. Do not put your fingers or hands into the product.
8. For safety purposes, please use only the original charger and cables designed for the equipment. We are not liable for damage caused by third-party equipment, and this may render your warranty invalid.
9. Keep a distance of 50mm between the Hyper 2000 hybrid inverter and other objects.
10. During the operation of the solar energy system, avoid direct sunlight to prevent the Hyper 2000 hybrid inverter from overheating. Do not place the Hyper 2000 hybrid inverter near any heat source.
11. Please install the product according to our user manual to avoid damage to the product or injury to other people.
12. Do not use this product near strong static electricity or strong magnetic fields.
13. Do not place the equipment in an environment with flammable or explosive compounds, gas, or smoke. Since the Hyper 2000 hybrid inverter relies on the shell to dissipate heat, exposing the enclosure to excessive heat will lead to damage.
14. To reduce the risk of damage to the electric cords and connectors, pull the connectors rather than the cord when disconnecting the product.
15. Do not use the product over its output rating. Overloads may result in a risk of fire or injury to persons.
16. Do not use any products or accessories that are damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
17. Do not operate the product with a damaged cord or plug, or a damaged output cable.
18. Do not disassemble the product. Take it to a qualified service person when service or repair is required. Incorrect handling may result in a risk of fire or electric shock.
19. Do not expose the product to fire or high temperatures.
20. Do not attempt to replace the internal components of the equipment by any unauthorized personnel. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
21. The Hyper 2000 hybrid inverter has a protection level of IP65, so the product cannot be immersed in liquids. If the product accidentally falls into the water during use, please place it in a safe and open area and stay away from it until it is completely dry. The dried product should not be used again and should be properly disposed of according to the disposal guidelines in this manual.
22. The product may feel warm when it's working. This is a normal operating condition and should not be a cause for concern.
23. To reduce the risk of electric shock, disconnect the solar photovoltaic panels, batteries, and home grid before attempting any instructed servicing.

24. When charging the battery, work in a well-ventilated area and do not restrict ventilation in any way, as inadequate ventilation may cause permanent damage to the equipment.

25. Do not clean the product with harmful chemicals or detergents. Only clean it with a dry cloth.

26. Do not move or shake the unit while operating as vibrations and sudden impacts may lead to poor connections to the hardware inside.

27. Ensure that the Hyper 2000 hybrid inverter and the batteries are installed securely to avoid accidents and product damage caused by falling.

28. In case of a fire, only a dry powder fire extinguisher is suitable for this product.

29. Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions.

EC DECLARATION OF CONFORMITY

- ZENDURE TECHNOLOGY CO., LIMITED declares that the Hyper 2000 hybrid inverter complies with directives 2014/53/EU (RED), 2011/65/EU(RoHS), 2015/863/EU(RoHS).
- The full text of the Declaration of Conformity is available at the following web address: **https://zendure.de/pages/download-center**.

C E	**Declaration of conformity** The EU Declaration of Conformity can be requested at this address: https://zendure.de/pages/download-center
♻	**Disposal and Recycling** Disposal of packaging: dispose of the packaging separately by type of material.
🗑	Disposal of old equipment (applies in the European Union and other European countries with separate collection (waste collection) Old equipment must not be disposed of in household waste. Every consumer is legally obligated to dispose of old equipment that can no longer be used separately from household waste, for example at a collection point for recyclables. To ensure proper recycling and avoid negative impact on the environment, electronic devices must be taken to an appropriate collection site. For this reason, electronic devices are marked with the symbol shown to the left.
🗑	Batteries and accumulators must not be disposed of in household waste. As a consumer, you are legally obligated to dispose of all batteries and accumulators, regardless of whether they contain pollutants or not, at a designated collection point. Marked with: Cd = Cadmium, Hg = Mercury, Pb = Lead. Discharge any built-in or accessory batteries before disposing.

Symbols Used in This Guide

Symbol	Explanation
⚠	A high-risk hazard that, if not avoided, could result in death or serious injury.
🔔	Important information that you must pay attention to.
📦✓	Included with your product
📦✗	Optional (not included)
💡	Indicates additional information on correct use or useful tips.

Important Tips

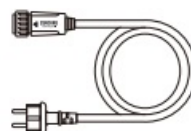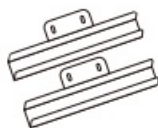|	
	The solar PV system is grid-tied. Please check if it is allowed in your area. we can remove this part.
	The Hyper 2000 hybrid inverter should be protected from direct sunlight to prevent rapid temperature increase.
	Please check the required accessories before installation, as some accessories need to be purchased separately.
	After installation, please download the Zendure app to experience more smart features.
	It takes about 1 minute to connect to the grid after completing the installation and first startup of the Hyper 2000.
	Use the Zendure app to set the AC output power to the home. Make sure it doesn't exceed the safety power requirements of your country or region.
	Please turn off the device (press and hold the button on the Hyper 2000 hybrid inverter for 6 seconds) and disconnect all power cables before removing.

What's in the Box

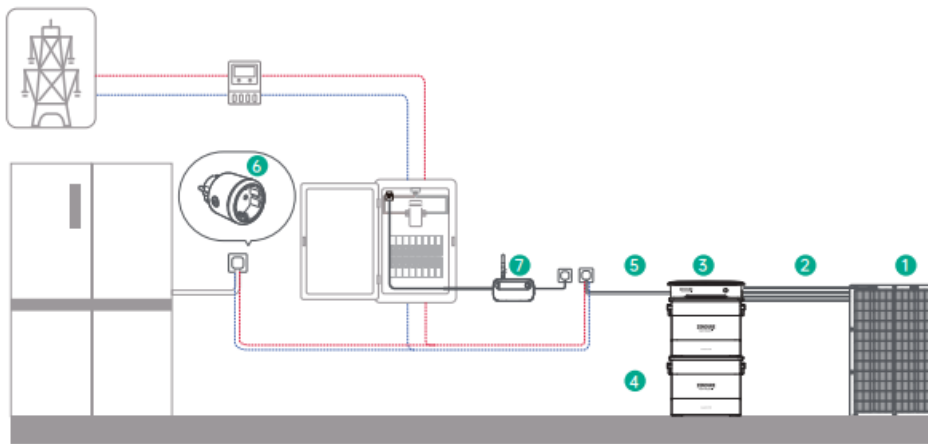Hyper 2000 hybrid inverter

User Manual

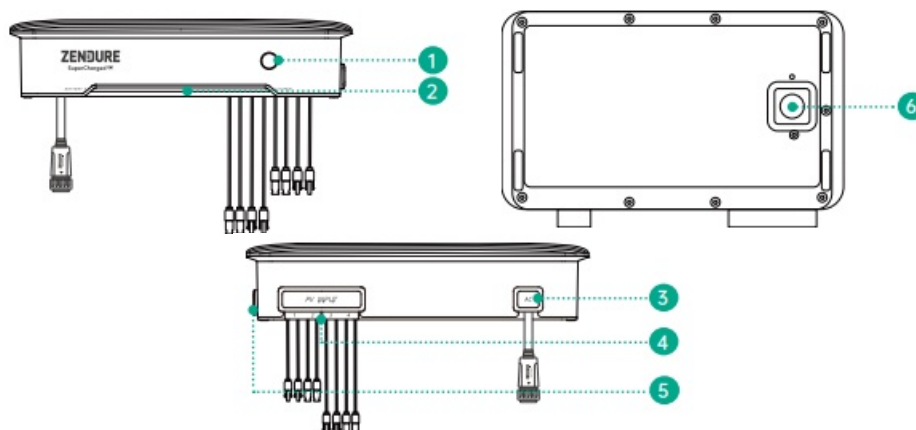3m 10A AC power cable

Bracket × 2

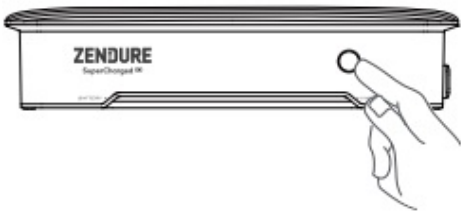M4 screwdriver × 1

M4 Screw × 4

Overview

System Overview

	Name	Description	Included / Not Included
1	Solar Panel	One Hyper 2000 hybrid inverter can connect with up to four sets of solar modules.	✗
2	Solar Cables	Used for the connection between The Hyper 2000 hybrid inverter and solar panels.	✗
3	Hyper 2000 hybrid inverter	Interconnects solar panels, batteries, and the household grid to efficiently operate the energy storage system and streamline power conversion among them.	✓
4	AB1000/2000 Battery	Stores electricity for household consumption as needed.	✗
5	AC Power Cable	Connects the Hyper 2000 to household socket.	✓
6	Zendure Satellite Plug	Used to monitor device performance and communicate wirelessly with Hyper 2000 hybrid inverter to optimize energy usage.	✗
7	Zendure Satellite Monitor CT	Monitors household electricity consumption and wirelessly communicates with the Hyper 2000 hybrid inverter to optimize energy usage.	✗

Product Overview
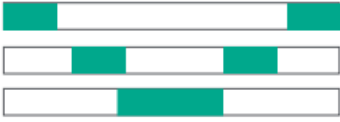
1	Button
2	LED Light Strip
3	AC Port
4	PV Inputs 1-4
5	Antenna
6	Battery Terminal

Button Controls

Button	Action	Function
	Press once when powered on	The LED lights up to display the remaining battery level or other operational statuses.
	Press for 2 second	Turn on the Hyper 2000
	Press for 3 seconds	Reset Wi-Fi connection
	Press for 6 seconds	Turn off the Hyper 2000
	Press for 10 seconds	Reset the Hyper 2000

LED Display

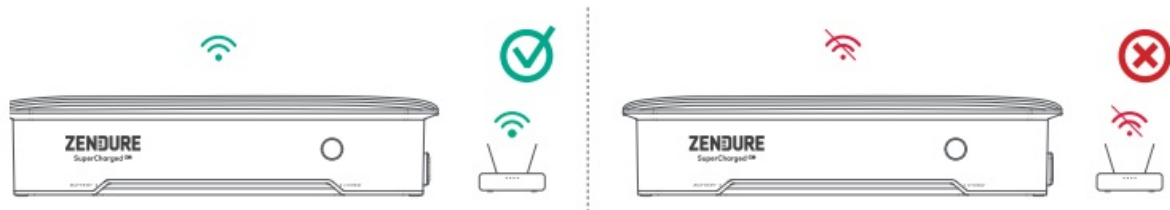| LED Indicator	LED Description	Detailed Explaination
	Solid green	Operating normally and displaying the battery level from 0% to 100%
	Pulsing green	Charging the Battery
	Pulsing green	Attempting network pairing
	Breathing green	Operating normally
	Green and blue	Updating via OTA
	Solid yellow Blinking yellow Blinking red	Please check the "Troubleshooting" section for details

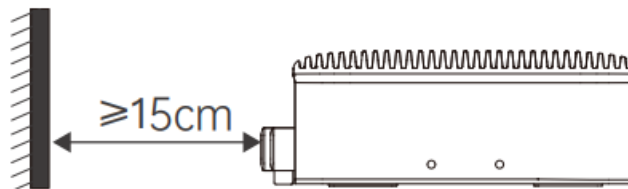# Installing Your Hyper 2000 Hybrid Inverter

Pre-assembly

- This user guide only describes the cable connection method and assembly of the Hyper 2000 hybrid inverter. To install solar modules, please read the instructions for the solar module and accessories.
- We recommend carrying out any solar-related setup on a sunny day, as it will be easier to assess the performance of your system and check for any issues.

Choose a location for the Hyper 2000 hybrid inverter

- Make sure the Hyper 2000 hybrid inverter is within the Wi-Fi coverage area.
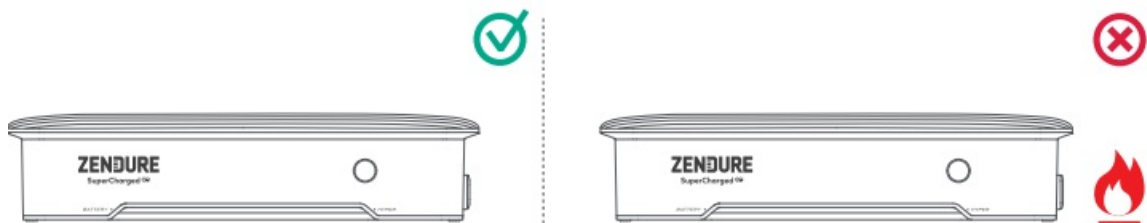

- The antenna casing on the device needs to be at least 15cm away from the wall.

- Please install the Hyper 2000 within the length range of the solar panel and 3m AC connection cables, otherwise an extension cable may be required.
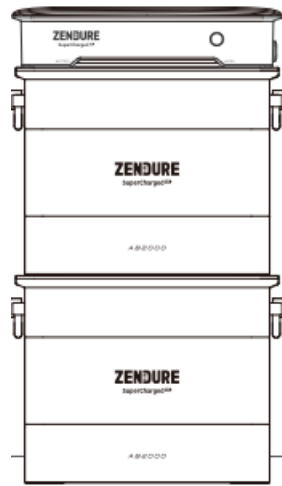

- Do not place the Hyper 2000 hybrid inverter in an area where flammable or explosive materials are stored.

- The Hyper 2000 hybrid inverter can be installed indoors or outdoors. Be sure the device is placed in an area where it will not be subjected to direct sunlight or rain.

- Position your Hyper 2000 hybrid inverter and batteries (not included) on a hard, level floor.
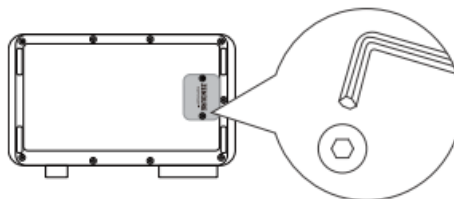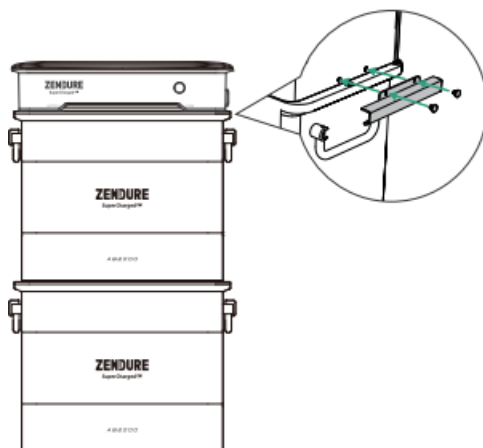
Assembly Process

we can remove this part

	Picture	Name	Included / Not Included
1		Hyper 2000 hybrid inverter x 1	✓
2		3m 10A AC Power Cable	✓
3		AB1000/2000 Batteries	✗
4		M4 Screws x 4	✓
5		M4 Wrench x 1	✓
6		Bracket x 2	✓
8		Solar Panel	✗
9		Solar Panel Extension Cable	✗
10		Solar Panel Parallel Cable	✗

1. **Remove the Protective Cover**
   - Use the M4 wrench to remove the battery terminal protective cover at the bottom of the Hyper 2000.

2. **Connect to the Battery**

1. Place the Hyper 2000 hybrid inverter on Zendure Battery AB1000/AB2000. A single Hyper 2000 can be connected to up to 4 AB1000/2000 batteries in parallel.
2. Use the fixed bracket and M4 screws to secure the Hyper 2000 and battery on both sides of the Hyper 2000.
   - For ease of installation, we recommend making the necessary cable connections before installing your system against a wall.
3. **Connect to the Power Grid**
   - Using the provided AC power cable, connect the power cable to Hyper 2000 first, then plug it into a household power socket.
     1. Please confirm that the AC socket is switched on, and the power grid is being powered.
     2. To improve the power generation efficiency and enhance safety, it is recommended that you connect it to a circuit with lower load power or no other loads.
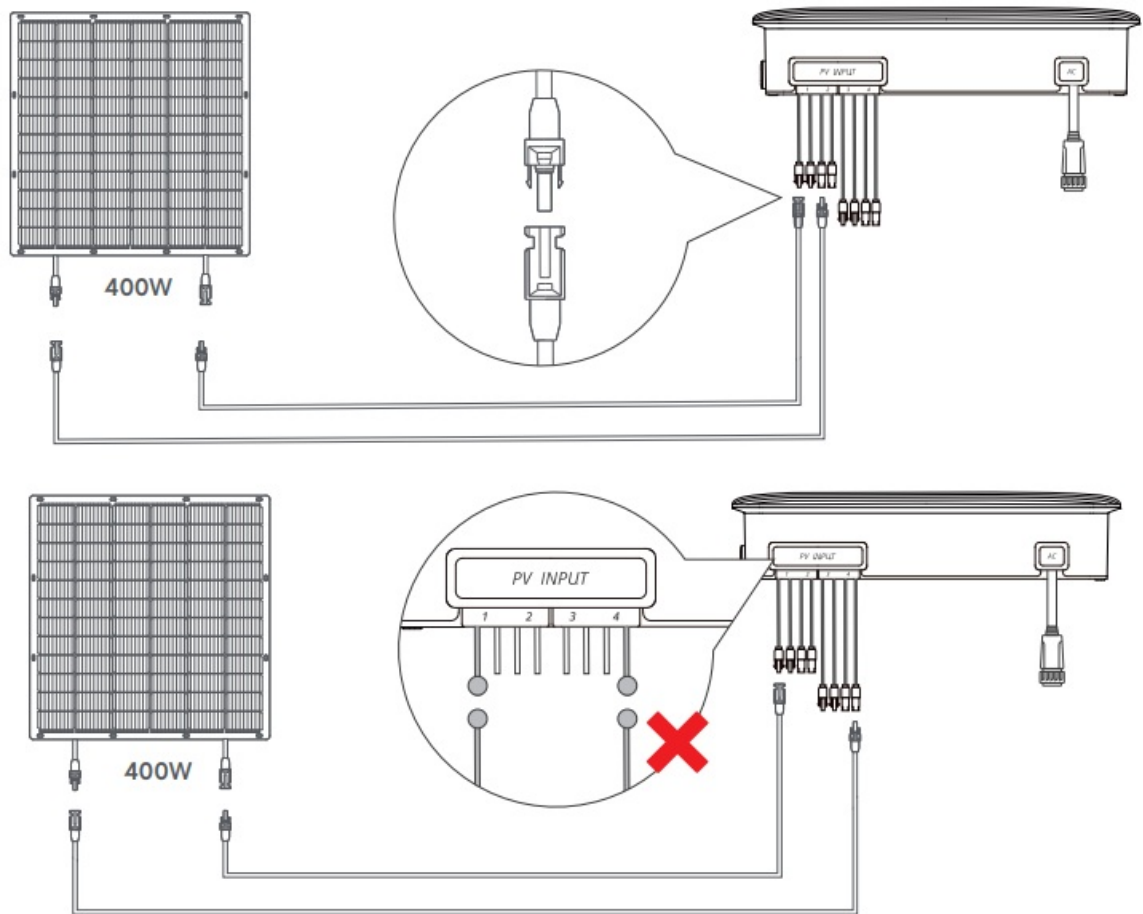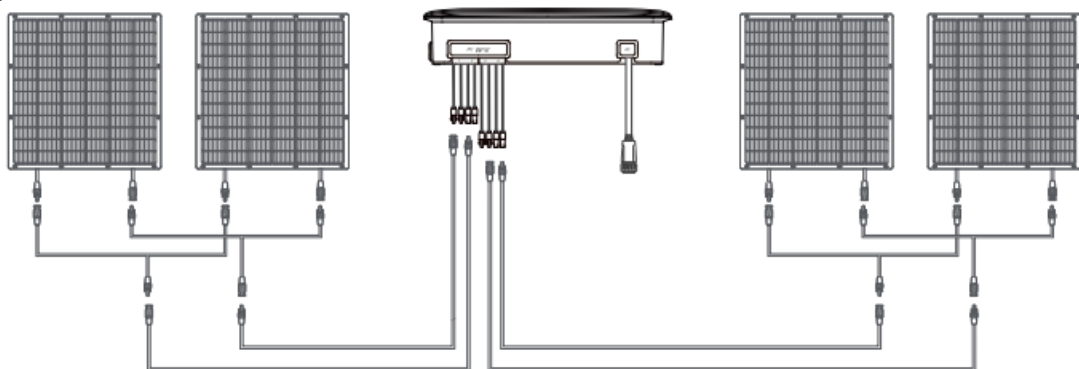

4. **Connect to a Solar Panel**
   1. Install solar panels in their desired location before connecting them to your Hyper 2000.
   2. There are two MPPTs in Hyper 2000. PV inputs 1 and 2 share MPPT1, and inputs 3 and 4 share MPPT2.
   3. Please note that the Voc (open circuit voltage) on each PV input must be lower than 55V.
   4. The total combined input current for PV1 and PV2 should not exceed 20A, and the same for PV3 and PV
   5. The recommended maximum power range for connecting the solar panels to each PV input is between 350W~550W.
5. **Connect Each Solar Panel Directly**
   1. PV inputs 1 and 2 share MPPT1, and inputs 3 and 4 share MPPT2.
   2. The positive and negative terminals of the same solar panel must be connected to the same MPPT, for example, only to PV1 and PV2, or to PV3 and PV4.
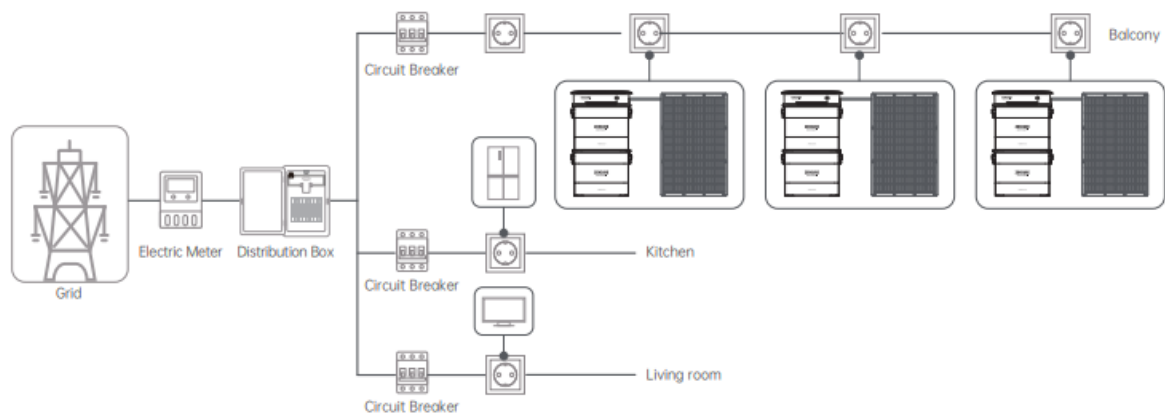
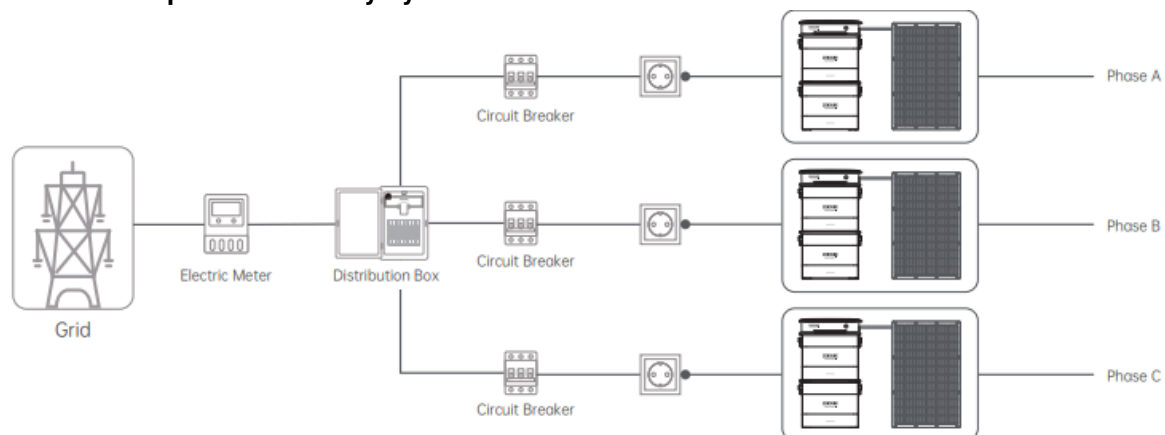## Connecting Several Solar Panels in Parallel

Installing Multiple Hyper 2000 Sets

1. Up to 3 Hyper 2000 sets can be installed on a single phase in your home's electrical circuits.
2. Use the Zendure app to set the AC power output to the grid. Make sure it doesn't exceed the safety power requirements of your country or region.

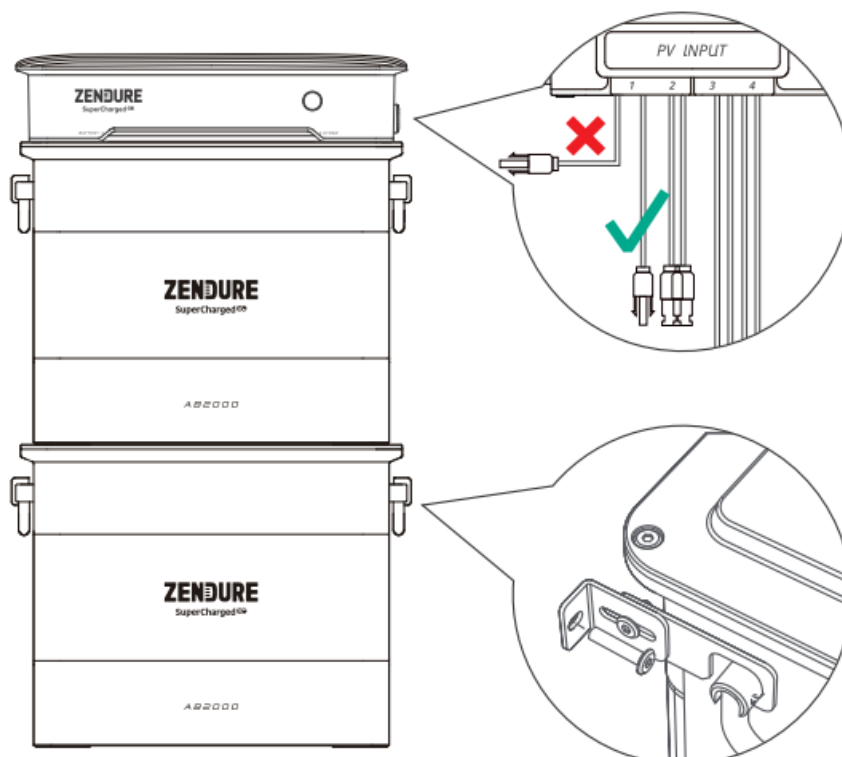## Installation in single-phase electricity system

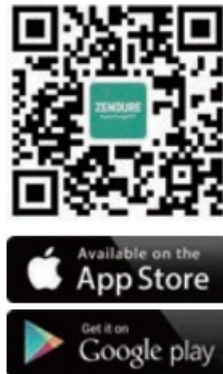## Installation in three-phase electricity system

Product Placement and Cable Management

1. Move the Hyper 2000 and battery packs near their final installation site.
2. Your Hyper 2000 should be positioned such that the solar and AC cables can run straight down without significant bending.
3. Use the brackets and screws provided with the battery packs to secure them to the wall.
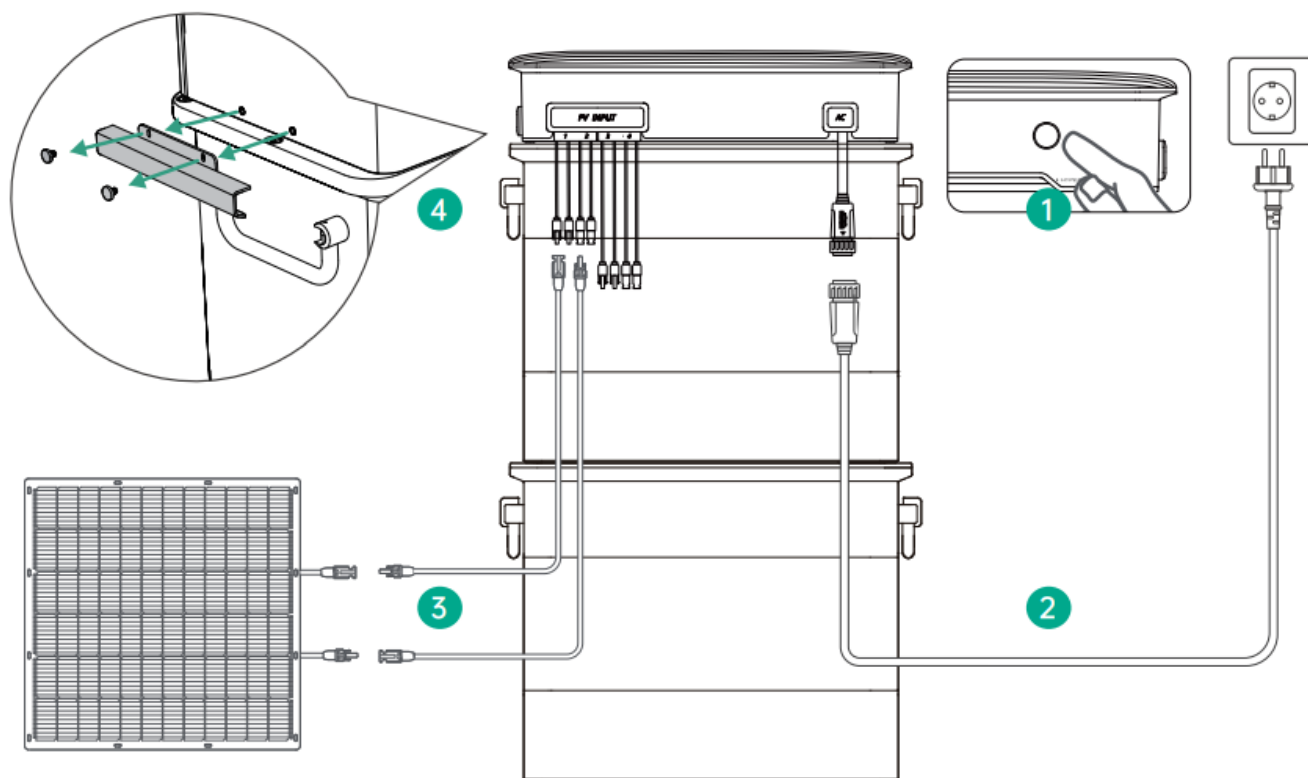
Zendure App Setup

1. The Zendure app is continually being improved and may change over time. If there are any differences between the instructions in this guide and the app, follow the in-app instructions.
2. **Privacy Policy:** By using Zendure Products, Applications, and Services, you consent to the Zendure Terms of Use and Privacy Policy, which you can access via the "About" section of the "User" page in the Zendure app.
   - The Zendure app allows users to monitor and manage power systems, offering real-time power monitoring, historical records, charge/discharge scheduling, and more.
     1. To download the Zendure app, scan the QR code or search "Zendure" in the Apple App Store® or Google Play Store.
     2. Open the Zendure app. Log In or sign up.
     3. Follow the in-app instructions to add your Hyper 2000 hybrid inverter.
     4. Please update the firmware to the latest version in the settings before using it.

Maintenance

Disconnection of the cables

1. Press the button on the Hyper 2000 for 6 seconds to power it off.
2. Disconnect the AC power cable: please disconnect the AC cable from the AC outlet end first, then press the AC connector on the Hyper 2000 hybrid inverter to pull it out.
3. Press the connectors on the PV inputs of the Hyper 2000 to pull out the solar panel cables.
4. Release the two brackets fixed between the Hyper 2000 and the battery.
5. Remove the Hyper 2000 from the batteries.

Troubleshooting

- If the LED light strip turns yellow or red, there is a warning or error. Please follow the instructions in the app or the table below to address the problem.
- If it is not resolved, please contact our customer service.
- Do not attempt to repair the Hyper 2000 hybrid inverter.

LED Indicator	LED Description	Detailed Explaination	Suggestion
	Solid yellow on the left side	Battery level is below XX% and not charging	1. Make sure the both sides of the solar panel cable and AC power cable are correctly wired. Unplug all the cables and reconnect after 30s 2. Make sure the home grid and solar panels are working normally. 3. If the issue persists, contact customer service.
	Blinking yellow on the left side	Battery not connected	1. Lift the Hyper 2000 placed on the battery, and then put it back down 2. If the issue persists, contact customer service.
	Blinking yellow on the right side	Home grid not connected	1. Try pulling out the AC cable and inserting re-inserting it. Make sure that the plug is inserted well. 2. If the issue persists, the power grid is probably faulty; wait for the power grid to recover. 3. If the issue persists for more than 1 hour, contact customer service.
	Blinking yellow on both sides	Both battery and home grid not connected	1. Lift the Hyper 2000 placed on the battery, and then put it back down 2. Try pulling out the AC cable and re-inserting it. Make sure that the plug is inserted well. 3. If the issue persists, contact customer service.
	Blinking red on the left side	Abnormal status of Battery	1. Check the cause and resolution suggestions for abnormal faults in the Zendure App. 2. If the issue persists, contact customer service.
	Blinking red on the right side	Abnormal status of Hyper 2000	
	Blinking red on both sides	Abnormal status of Hyper 2000 and Battery	

Technical Specifications

PV Input	
PV Input Ports	PV1 4
PV Input Rated Voltage	15V 55V
PV Input Recommended Power	350Wp 550Wp
Number of MPPTs	2
MPPT1 Connections	PV1 & PV2
MPPT2 Connections	PV3 & PV4
Each MPPT Rated Voltage Range	16 48V
Each MPPT Rated Current	20.5A
Each MPPT Rated Power	900W
Dual MPPTs Rated Power	1800W

AC Power Input/Output	
Rated Power	1200W
Rated Voltage	220V/230V/240V
Rated Frequency	50Hz
Rated Current	5.5A
Battery Terminal	
Charging Mode	
Maximum Input Power	One AB1000 Battery: 950W One AB2000 Battery: 1200W Two or More Batteries: 1600W
Discharging Mode	
Maximum Output Power	1200W
Environmental Adaptability	
Charging Temperature	-20℃ to 60℃
Discharging Temperature	-20℃ to 60℃
Storage Temperature	-25℃ to 85℃
Maximum Relative Humidity	90%
IP Rating	IP65
Others	
Wireless Type	Bluetooth, Wi-Fi
OTA Updates	Supported
Dimensions	350 x 202 x 78mm
Product Weight	≈ 8.5Kg

- **https://zendure.com**
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- **ZENDURE TECHNOLOGY CO., LIMITED Hours: Mon – Fri 9:00 – 17:00 Pacific Phone: 001- 800-991-6148 (US) 0049-800-627-3067 (DE) Support / Contact:**
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- **https://eu.zendure.com/pages/contact-us**
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Documents / Resources

	[ZENDURE Hyper 2000 Hybrid Inverter Multi Sets Coordination Plug In Solar System](#) [pdf] User Manual Hyper 2000 Hybrid Inverter Multi Sets Coordination Plug In Solar System, Hyper 2000, Hybrid Inverter Multi Sets Coordination Plug In Solar System, Multi Sets Coordination Plug In Solar System, Sets Coordination Plug In Solar System, Plug In Solar System, Solar System, System

References

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