**Manuals+** — User Manuals Simplified.

ZENDURE Hyper 2000 Hybrid Inverter

# ZENDURE Hyper 2000 Hybrid Inverter User Manual

**Contents**

# ZENDURE

**SuperCharged∞**

**ZENDURE Hyper 2000 Hybrid Inverter**

## Product Information

The Hyper 2000 Hybrid Inverter by Zendure is a versatile device designed to convert DC power from solar panels into AC power for use in homes or businesses. It offers high efficiency and reliable performance, making it ideal for off-grid or backup power systems.

### Specifications:

- **Product:** Hyper 2000 Hybrid Inverter
- **Manufacturer:** Zendure
- **Model:** Hyper 2000
- **Type:** Hybrid Inverter

## Product Usage Instructions

**Safety Instructions:**
Before using the Hyper 2000 Hybrid Inverter, please read and follow these safety guidelines:

1. Read all up-to-date documents carefully before installing, using, or servicing the product.
2. Check for any damage, cracks, leaks, or overheating of the inverter.
3. Avoid direct contact with the inverter during operation.
4. Use only the original charger and cables designed for the equipment.
5. Maintain a distance of 50mm between the inverter and other objects.
6. Avoid direct sunlight and heat sources to prevent overheating.

**EC DECLARATION OF CONFORMITY:**
Ensure compliance with relevant regulations in your area when using the Hyper 2000 Hybrid Inverter.

**FAQ**

Q: How do I claim the product warranty?

A: To claim the product warranty, scan the QR code provided in the manual to visit the Zendure help centre and submit a ticket.

Q: Can I use third-party chargers with the Hyper 2000 inverter?

A: For safety purposes and to avoid voiding the warranty, please use only the original charger and cables designed for the Hyper 2000 inverter.

Q: What should I do if the inverter shows signs of damage?

A: If you notice any damage, cracks, leaks, or overheating of the inverter, discontinue use immediately and contact Zendure customer support for assistance.

**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 centre 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), and 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**.

- **Declaration of conformity**

  The EU Declaration of Conformity can be requested at this address: **https://zendure.de/pages/download-center**

- **Disposal and Recycling**
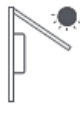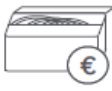
  Disposal of packaging: dispose of the packaging separately by type of material.

- 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 impacts 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
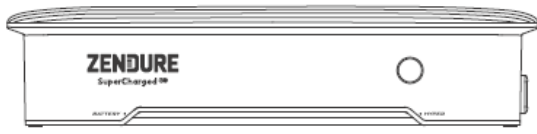
Hyper 2000 hybrid inverter


User Manual
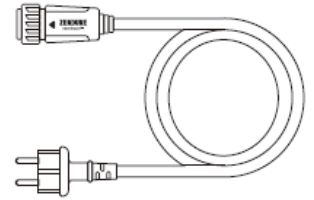

3m 10A AC power cable
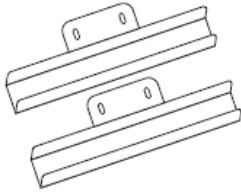

Bracket × 2
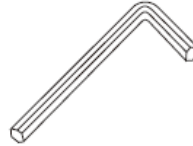

M4 screwdriver × 1


M4 Screw × 4

## Overview

### System Overview
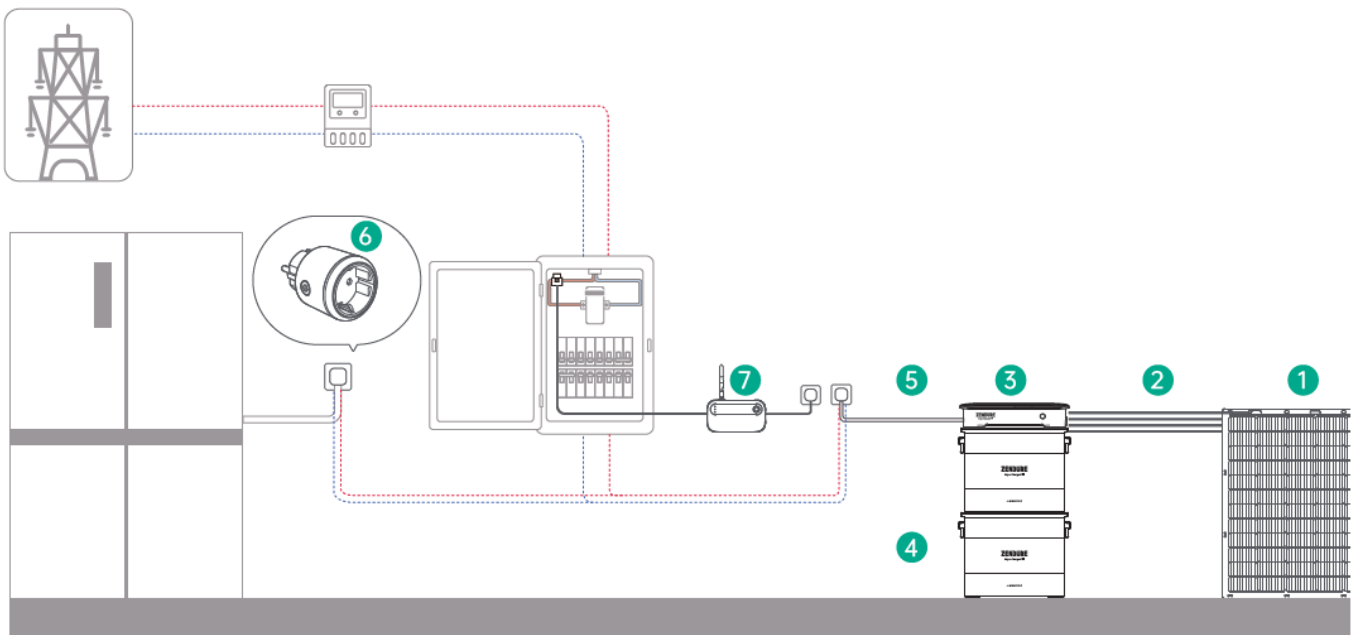
| | Name | Description | Included / Not Included |
|---|---|---|---|
| 1 | Solar Panel | One Hyper 2000 hybrid inverter can connect with up to four sets of solar modules. | ✖ |
| 2 | Solar Cables | Used for the connection between The Hyper 2000 hybrid inverter and solar panels. | ✖ |
| 3 | Hyper 2000 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. | ✖ |

Optional accessories are available for purchase on the official Zendure website.
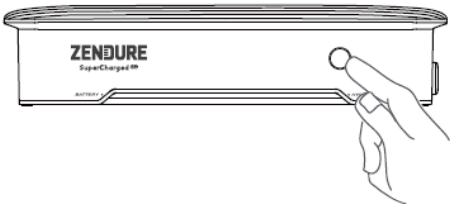
**Product Overview**
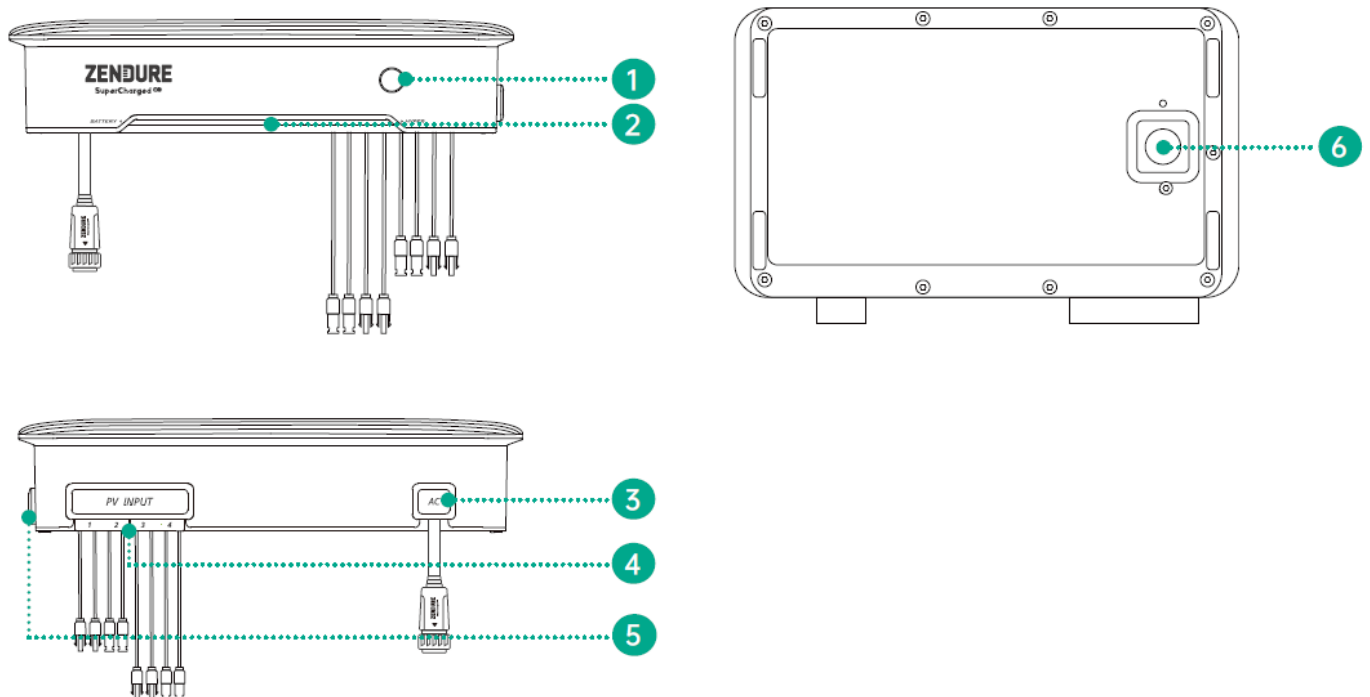


1. Button
2. LED Light Strip
3. AC Port

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.
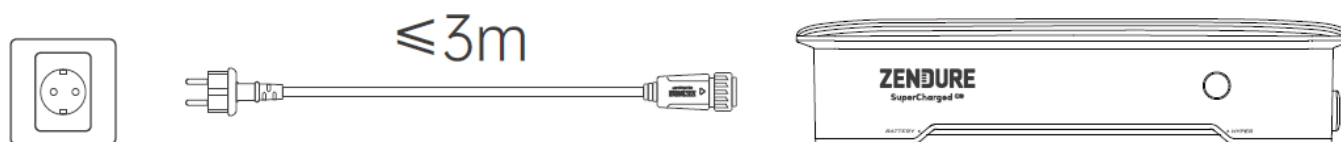
## Choose a location for the Hyper 2000 hybrid inverter
Make sure the Hyper 2000 hybrid inverter is within the Wi-Fi coverage area.
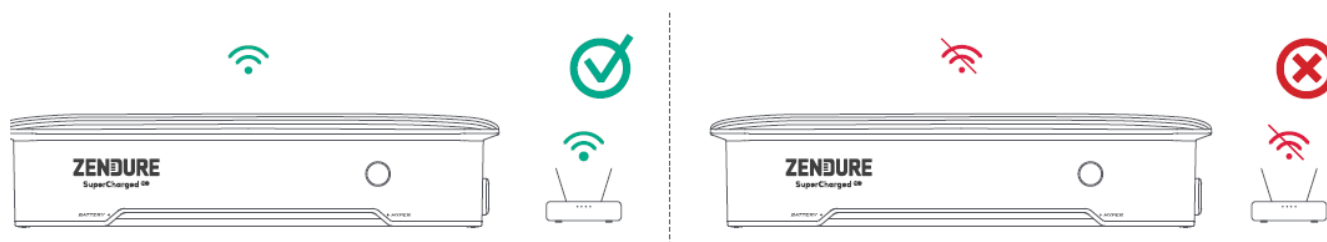


The antenna casing on the device needs to be at least 15cm away from the wall.
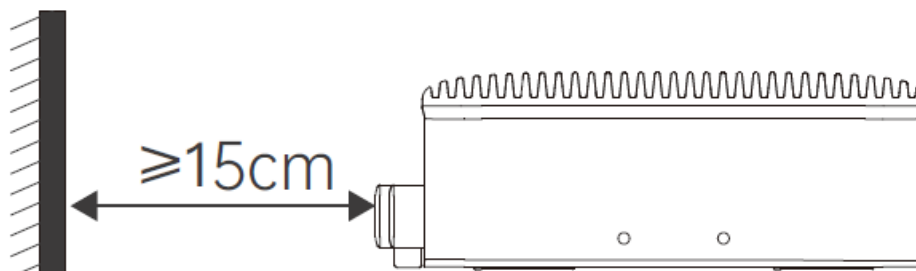


Please install the Hyper 2000 within the length range of the solar panel and 3m AC connection cables, otherwise an extension cable may be required.



Do not place the Hyper 2000 hybrid inverter in an area where flammable or explosive materials are stored.
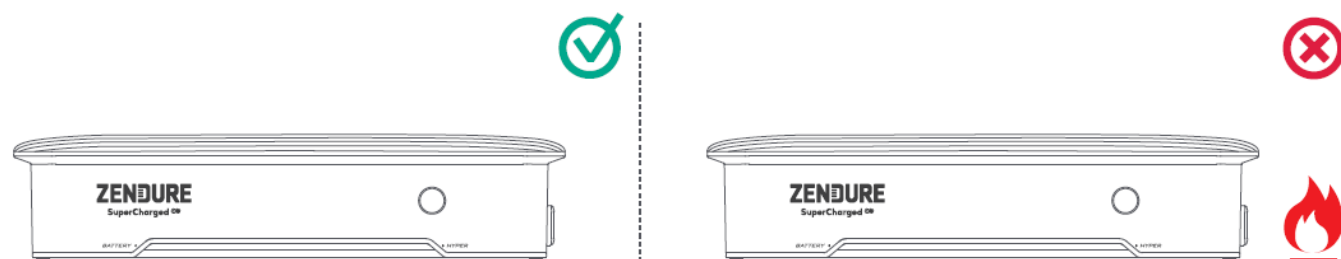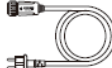
The Hyper 2000 hybrid inverter can be installed indoors or outdoors. Be sure the device is placed in an area where it will not be subjected to direct sunlight or rain.



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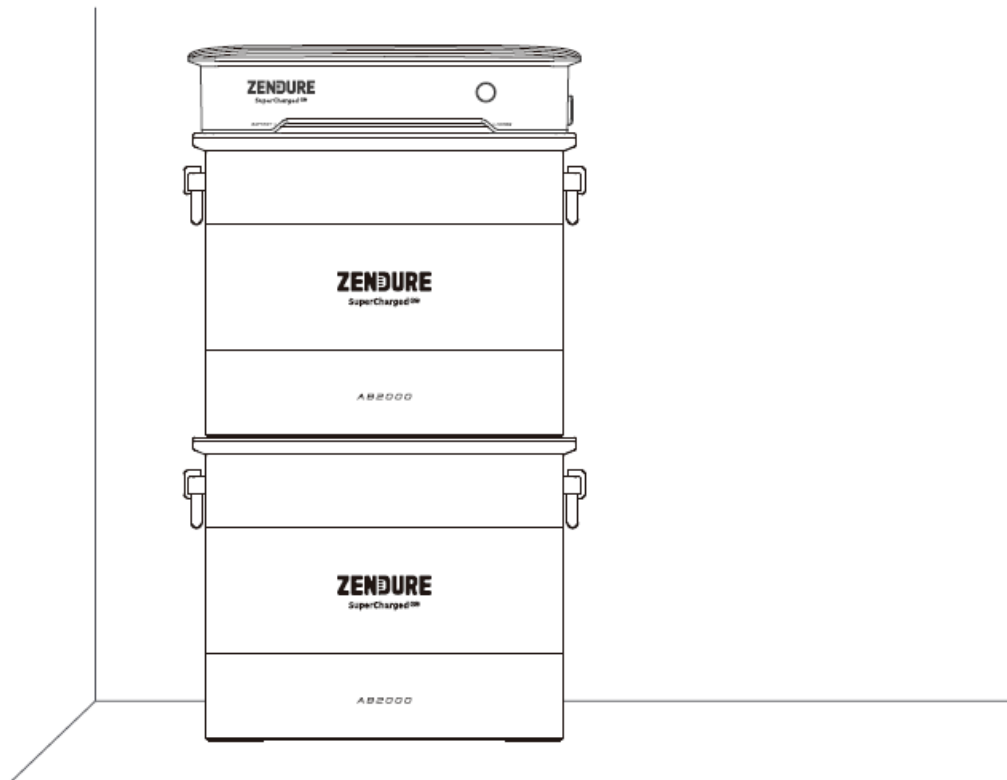


**Assembly Process**
we can remove this part

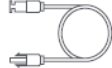| | Picture | Name | Included / Not Included |
|---|---|---|---|
| 1 | | Hyper 2000 hybrid inverter x 1 | ✓ |
| 2 | | 3m 10A AC Power Cable | ✓ |
| 3 | | AB1000/2000 Batteries | ✗ |
| 4 | | M4 Screws x 4 | ✓ |
| 5 | | M4 Wrench x 1 | ✓ |
| 6 | | Bracket x 2 | ✓ |
| 8 | | Solar Panel | ✗ |
| 9 | | Solar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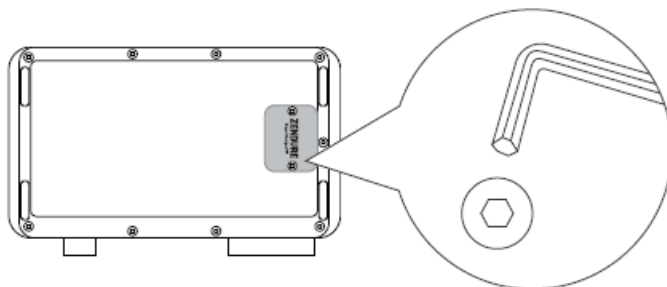


2. **Connect to the Battery**

   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.

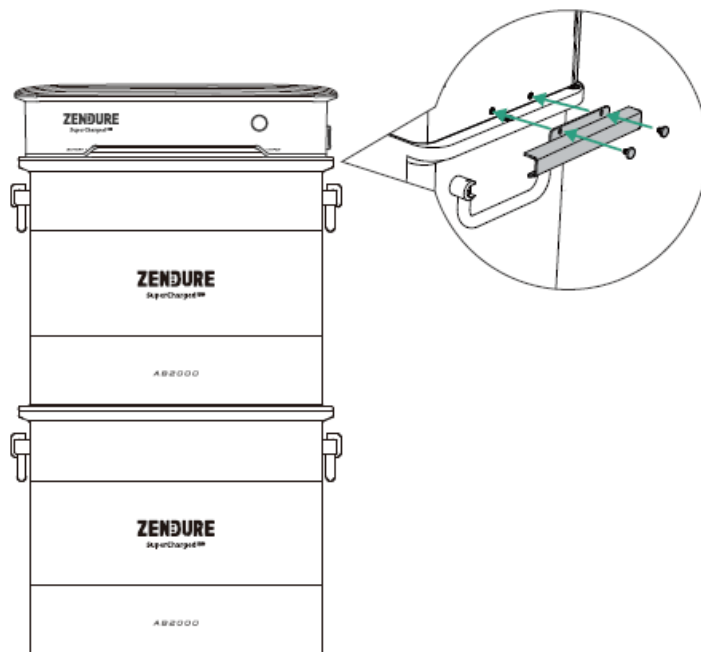- For ease of installation, we recommend making the necessary cable connections before installing your system against a wall.

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.
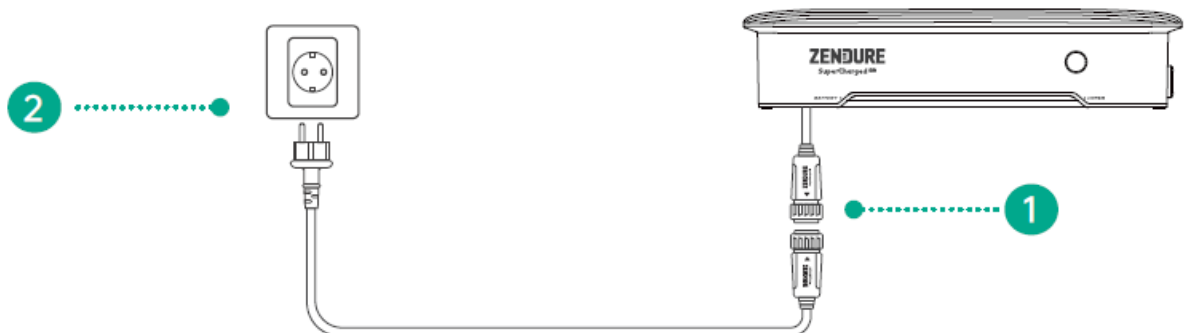


4. **Connect to a Solar Panel**

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.

**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.
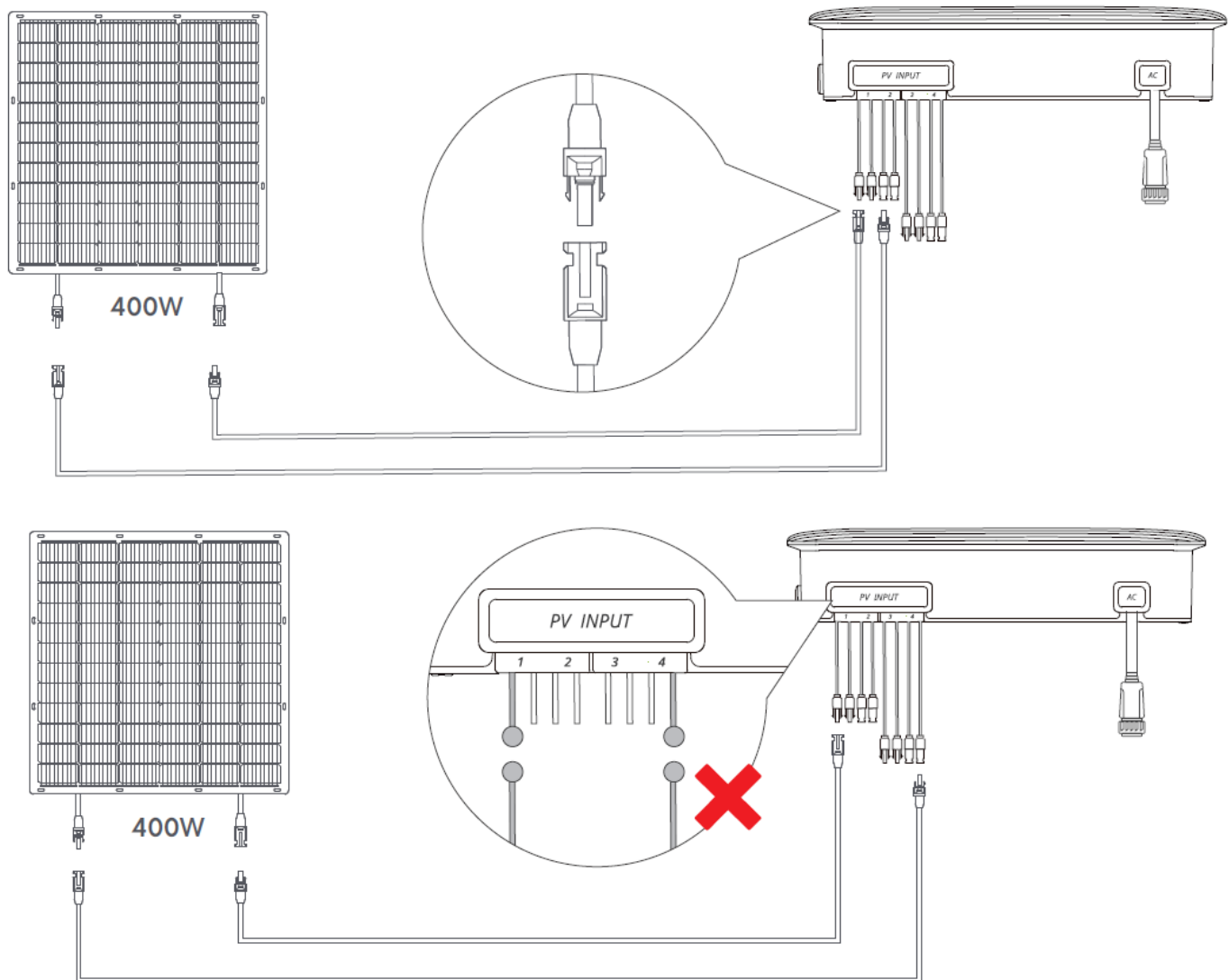
## Connecting Several Solar Panels in Parallel
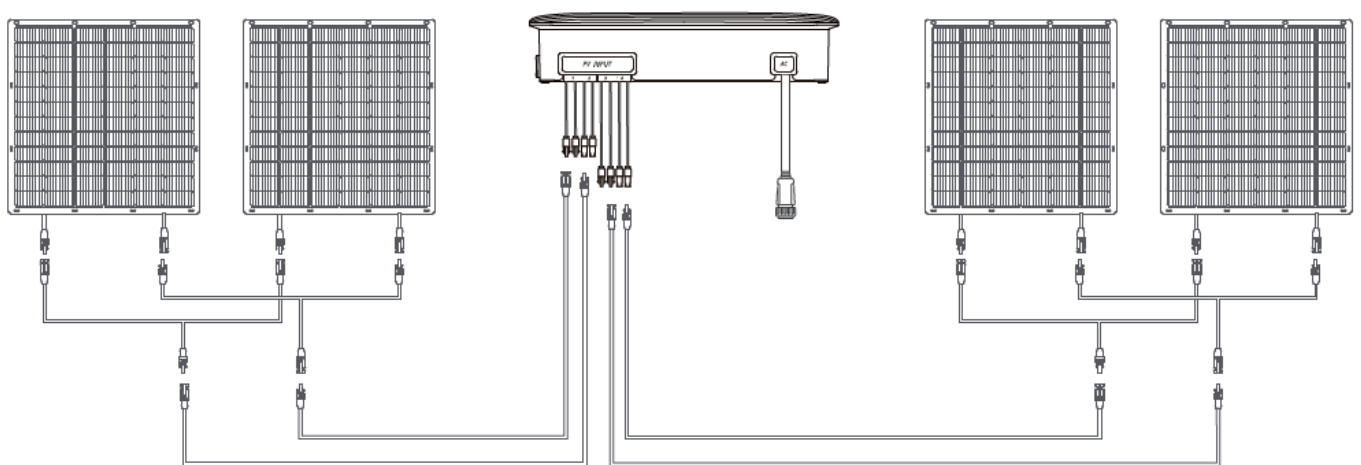


## Installing Multiple Hyper 2000 Sets

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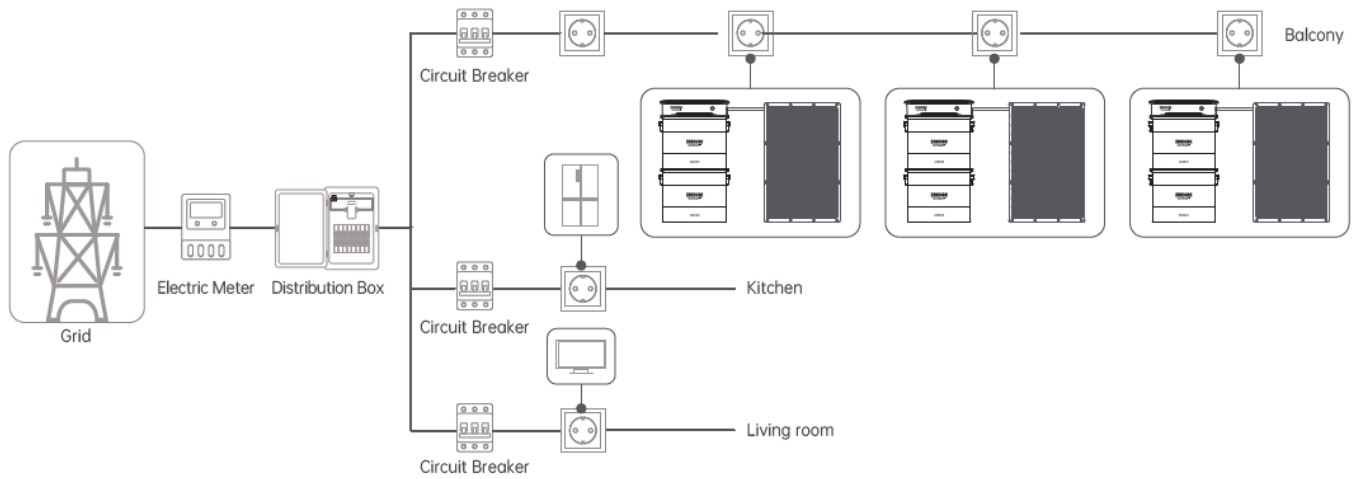2. Use the Zendure app to set the AC power output to the grid. Make sure it doesn't exceed the safety power requirements of your country or region.

**Installation in single-phase electricity system**



**Installation in three-phase electricity system**
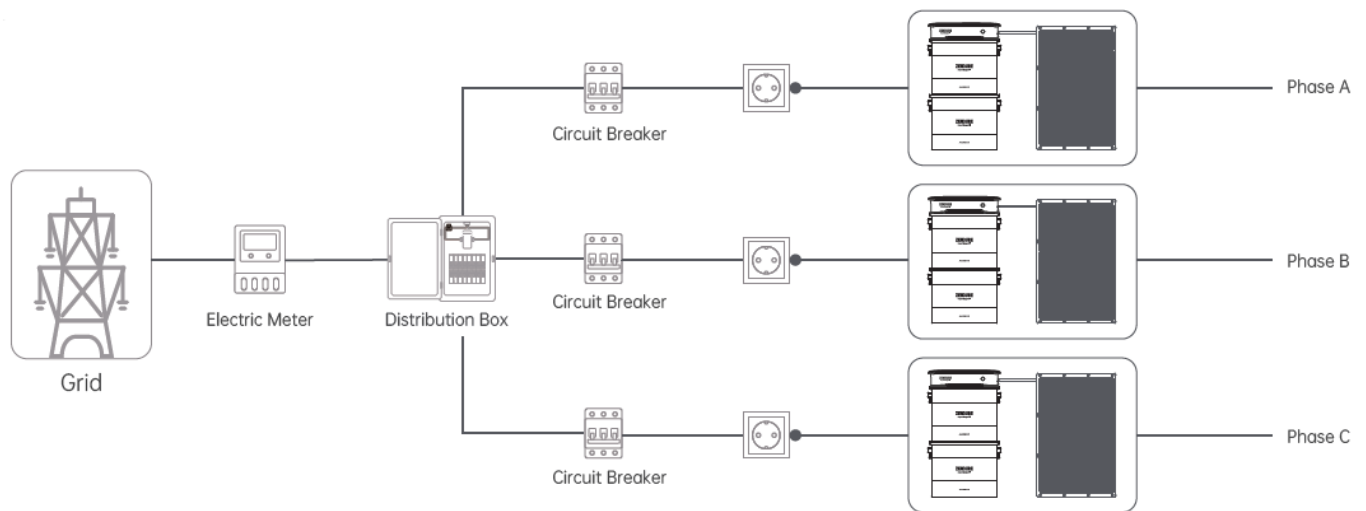


**Product Placement and Cable Management**

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

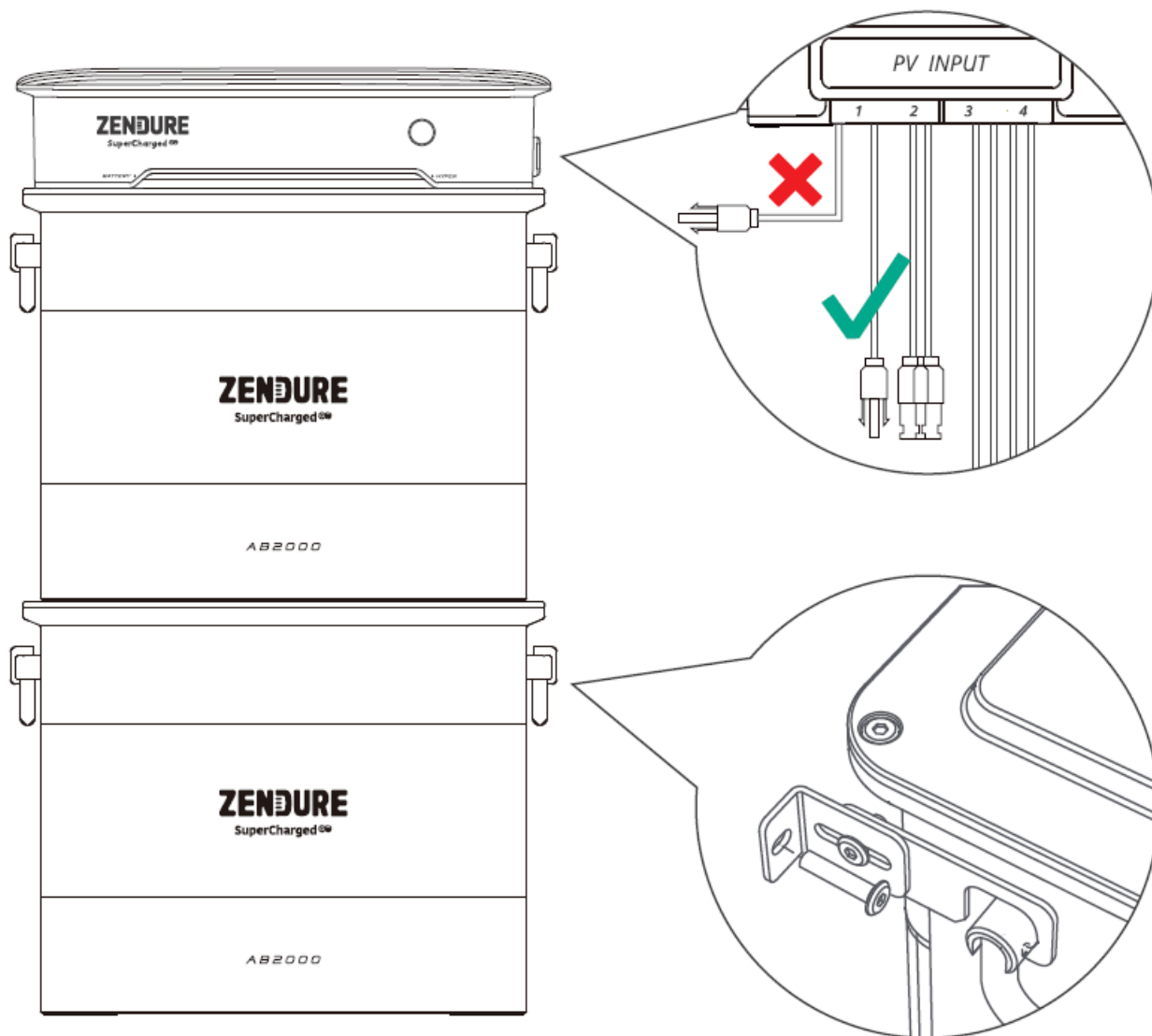1. The Zendure app is continually being improved and may change over time. If there are any differences between the instructions in this guide and the app, follow the in-app instructions.
2. **Privacy Policy:** By using Zendure Products, Applications and Services, you consent to the Zendure Terms of 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.
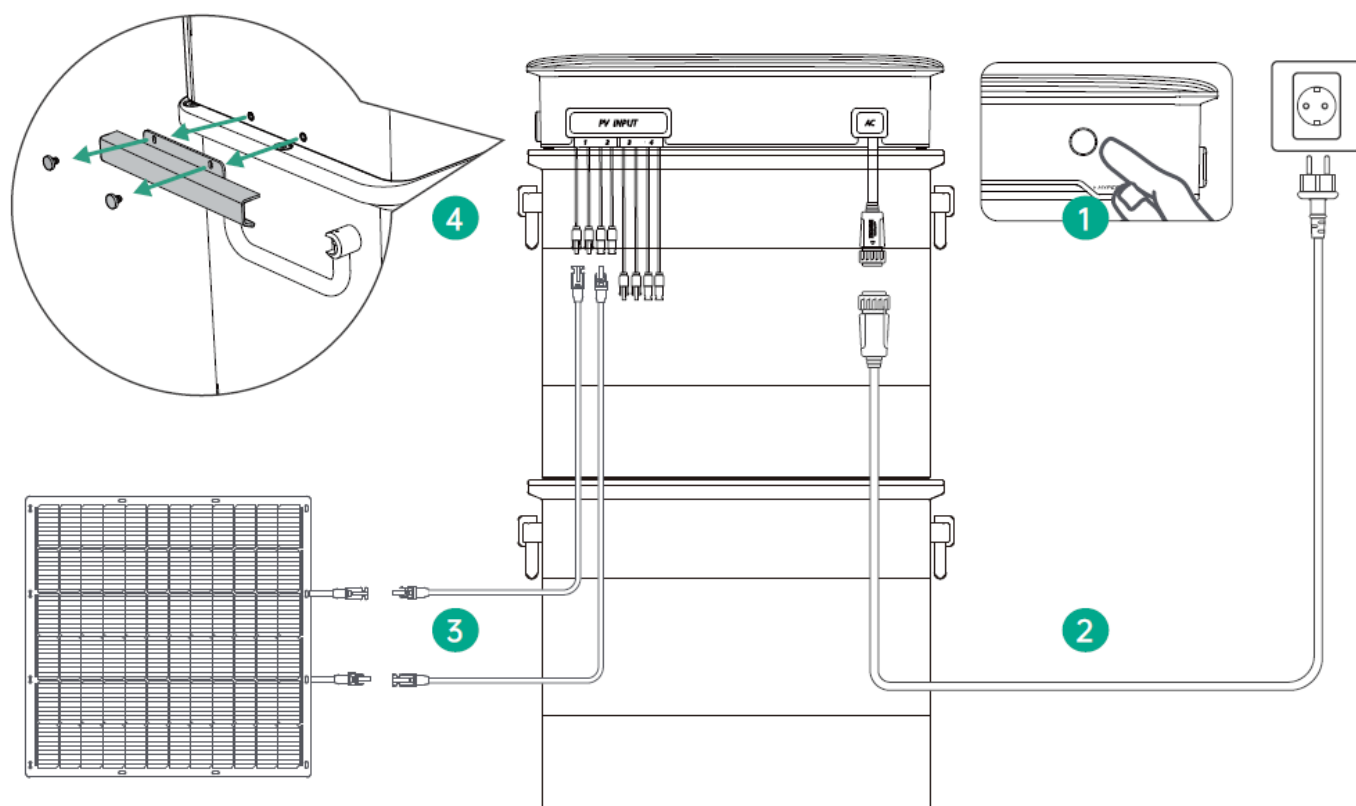


**Troubleshooting**

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 Explanation | Suggestion |
|---|---|---|---|
| | Solid yellow on the left side | Battery level is below XX% and not charging | 1. Make sure both sides of the solar panel cable and AC power cable are correctly wired. Unplug all the cables and reconnect after 30 s<br><br>2. Make sure the home grid and solar panels are working normally.<br><br>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<br><br>2. If the issue persists, contact customer service. |
| | Blinking yellow on the right side | The home grid is not connected | 1. Try pulling out the AC cable and inserting and reinserting it. Make sure that the plug is inserted well.<br><br>2. If the issue persists, the power grid is probably faulty; wait for the power grid to recover.<br><br>3. If the issue persists for more than 1 hour, contact customer service. |
| | Blinking yellow on both sides | Both battery and home grid are not connected | 1. Lift the Hyper 2000 placed on the battery, and then put it back down<br><br>2. Try pulling out the AC cable and reinserting it. Make sure that the plug is inserted well.<br><br>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.<br><br>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<br><br>Two or More Batteries: 1600W |
| Discharging Mode | |
| Maximum Output Power | 1200W |
| Environmental Adaptability | |
| Charging Temperature | -20°C to 60°C |
| Discharging Temperature | -20°C to 60°C |
| Storage Temperature | -25°C to 85°C |
| 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 |

**Zendure USA Inc.**
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:**

- **https://zendure.de/pages/contact**
- **https://eu.zendure.com/pages/contact-us**
- **https://zendure.com/pages/contact**

**Website:**

- **https://zendure.de**
- **https://eu.zendure.com**
- **https://zendure.com**

**ZENDURE TECHNOLOGY CO., LIMITED.**

- **EU Importer:** Zendure DE GmbH
- **Address:** Rheinallee 1,40549 Düsseldorf
- **E-mail:** **sales@zendure.com**
- **Phone:** 0049-**800-627-3067**

## Documents / Resources

| | |
|---|---|
|  | **ZENDURE Hyper 2000 Hybrid Inverter** [pdf] User Manual<br>Hyper_2000, Hyper 2000 Hybrid Inverter, Hyper 2000 Inverter, Hybrid Inverter, Inverter |

# References

-  **Zendure EU**
-  **Contact Customer Service – Zendure – Zendure EU**
-  **Zendure - SuperCharged | Zendure**
-  **Contact Us – Zendure**
-  **Zendure Deutschland | SuperCharged**
-  **Zendure Deutschland | SuperCharged**
-  **Kontaktieren Sie den Kundendienst – Zendure**
- **User Manual**