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ZENDURE AB2000X Add on Battery User Manual



Add-on Battery AB2000X

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.

1. Specification

| Add-on Battery AB2000X | |
|---|--|
| Battery Rated Voltage | 48V d.c. |
| Battery Life Cycle | 6,000 Cycles |
| Rated Capacity | 40Ah/1920Wh |
| Rechargeable Li-Ion Battery | LiFePO ₄ |
| Maximum Input/Output Power | One AB2000X Battery:1,680W |
| | Two or More Batteries:1,920W |
| Charging Temperature | 0° C ~55° C (32° F ~ 131° F) |
| Discharging Temperature | -20° C~60° C (-4° F ~ 140° F) |
| Self-heating Function | Yes |
| Automatically Self-heating Function | -20°C ~0°C (-4° F ~ 32° F) |
| Storage Temperature | -30°C to 45°C (-22° F to 113° F): 1 month -20°C to 35°C (-4° F to 95° F): 6 month |
| Aerosol Fire Suppression System | Yes |
| Activation temperature of the Aerosol Fire Suppression System | 170°C ±10°C (338° F ±18° F) |
| Battery Protection | Overvoltage, Overcurrent, Short-circuit, Overheat Protections |
| Compatibility | Hub1200, Hub2000, Ace 1500, Hyper 2000, SolarFlow 800 Series |
| | AB1000 Series Battery, AB2000 Series Battery |
| Dimension | 388*224*292mm |
| Weight | 20.3 kg |
| IP Rating | IP65 |

2. Safety Instruction

2.1 Usage

1. Please read all current documentation before installing, using, or servicing the product, as documentation may be updated over time.
2. Please check whether the product 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 product.
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. Keep hands and fingers away from the product's internal components.
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. Maintain a minimum clearance of 50mm between the product and any surrounding objects.
10. During the operation of the solar energy system, avoid direct sunlight to prevent the product from overheating. Do not place the product 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 product 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 reassembly 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 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 product 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.

2.2 Disposal Guide





1. Fully Discharge the Battery (if possible): Before disposal, ensure the battery is fully discharged. This can reduce potential hazards. Always refer to local laws and guidelines for battery recycling and disposal procedures.
2. Handling Failed Batteries: If the battery cannot be fully discharged due to malfunction or product failure, consult a licensed battery recycling facility or professional for proper and safe handling.
3. Segregation of Battery Types: Ensure batteries or cells from different electrochemical systems (e.g., lithiumion, nickel-metal hydride) are disposed of separately. Mixing different types of batteries can lead to chemical reactions or safety risks.
4. Avoid Physical Damage: Do not expose the battery to physical impacts, punctures, or high temperatures during disposal, as it may lead to leakage, fire, or explosion.
5. Follow Local Regulations: Always adhere to local regulations and guidelines for

battery disposal, as improper handling can harm the environment and violate legal requirements.

2.3 EC DECLARATION OF CONFORMITY

ZENDURE TECHNOLOGY CO., LIMITED declares that the AB2000X complies with the directive 2014/30/EU(EMC), 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>

| | |
|---|---|
|  | 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. |

3. Important Tips

| | |
|---|--|
|  | Protect from Direct Sunlight: Ensure that the AB2000X is placed in a shaded area to avoid rapid temperature increases that could affect performance. |
|  | Accessory Check: Verify the necessary accessories before installation, as some may need to be purchased separately. |
|  | Download the Zendure App: After installation, download the Zendure app to unlock additional smart features and remote control options. |
|  | Optimal Operating Conditions: It is recommended to use this product in environments ranging from 15°C to 30°C, away from water, heat sources, or sharp objects that could cause damage. |
|  | Long-Term Storage: For extended storage, discharge the product to 30%, then recharge to 60% every 3 months. |
|  | Battery Maintenance: If the power of the AB2000X falls low SOC after use, please charge it to 60% SOC before storing. Allowing the battery to remain discharged for an extended period can lead to irreversible damage and reduce the service life of the AB2000X. |
|  | No Disassembly: Do not attempt to disassemble the product. For repairs or servicing, consult Zendure support team. Improper handling could pose risks of fire or personal injury. |
|  | Low-Temperature Protection: The AB2000X will forcibly implement a discharge lower limit of 5%, preventing over-discharging of the AB2000X and extend the battery life. |

4. What's in the Box



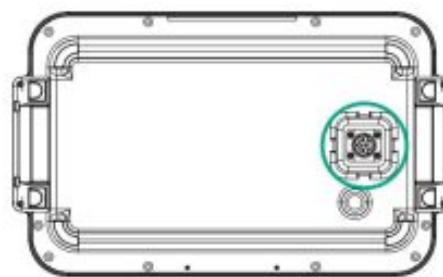
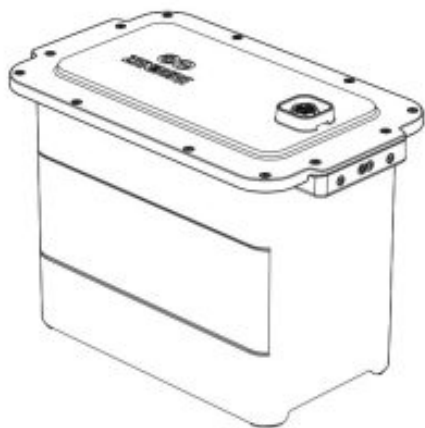
Add-on Battery AB2000X



User Manual

Product and component images may differ from actual products. If any parts are missing or defective, please contact Zendure customer support.

5. Product Overview





the bottom

1. Top Battery Port: Connects to SolarFlow 800, Hub 1200, Hub 2000, Ace 1500, Hyper 2000, and Add-on Batteries.
2. Bottom Battery Port: Connects to additional AB1000 & AB2000 series batteries to expand capacity.

5.1 LED Guide

The Add-on Battery does not have an LED indicator. It reads the status of the batteries based on the LED indicators on inverters, such as the SolarFlow 800, Hyper 2000, and SolarFlow 800 Pro.

| LED Indication | Indication | Battery Status | How to do |
|---|----------------------|---------------------------------|---|
|  | Slow Flashing Green | Indicates charging status | / |
| | Solid Green | Battery connected successfully. | / |
| | Flashing Yellow | Low battery warning | / |
| | Slow Flashing Yellow | Battery is in self-heating mode | The battery will automatically resume operation once it stabilizes at a safe operating temperature. |
| | Solid Yellow | BMS protection | Check the app for error codes and follow the troubleshooting instructions. If the issue persists after restart, contact Zendure support team. |
| | Flashing Red | BMS fault detected. | |

| | | | |
|---|--------------------------------|--|---|
|  | Solid Green | Battery connected successfully. | / |
| | Battery Level Display | Each LED segment represents 25% of battery capacity. | / |
| | Slow Flashing Green (Last LED) | Indicates charging status | / |
| | Flashing Yellow (First LED) | Low battery warning | / |
| | Slow Flashing Yellow | Battery is in self-heating mode | The battery will automatically resume operation once it stabilizes at a safe operating temperature. |
| | Solid Yellow | BMS protection | Check the app for error codes and follow the troubleshooting instructions. If the issue persists after restart, contact Zendure support team. |
| | Flashing Red | BMS fault detected. | |

⚠ Tips

The battery indicator fails to illuminate under the following circumstances, indicating that the AB2000X may not be connected successfully. You can take the following steps to address the issue.

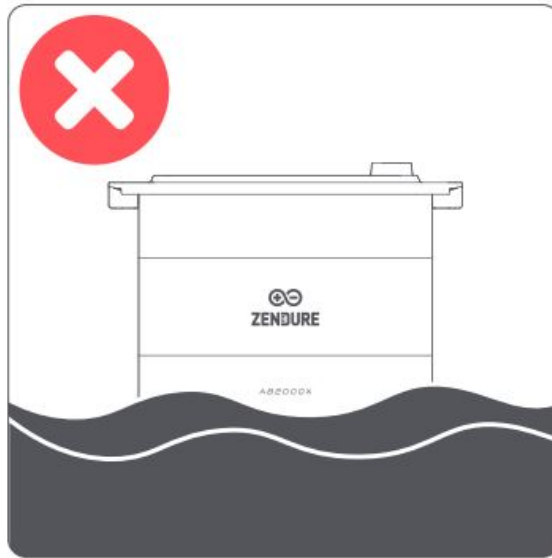
- If there is no solar connection or sunlight during installation, the AB2000X might be out of power. Do not disconnect the battery connection cable. Instead, solar input or open AC input mode, and then check the battery indicator again.
- If the AB2000X enters protection mode, press and hold the button on the inverter for 6 seconds to turn off the system. Then, press and hold the button on the inverter for 2 seconds to restart the system. Wait approximately 5 minutes before checking the battery indicator again.

If the above measures do not resolve the issue, do not unplug any cable connections. Please contact Zendure support team for further assistance.

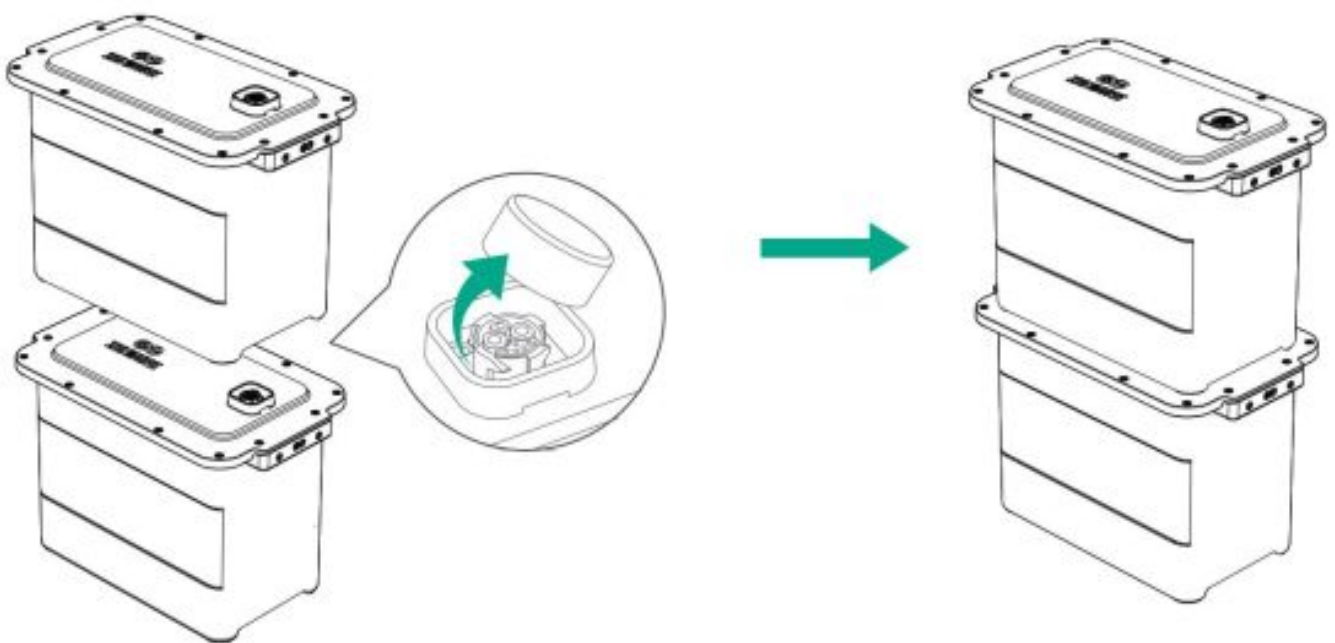
6. Getting Started

6.1 Choosing an Appropriate Location

1. Place the AB2000X battery on a level surface, ensuring it is flush against the wall.
2. Choose a shaded location with a optimal temperature range of 15°C to 30°C to maintain optimal performance.
3. Position the AB2000X in an area with strong WiFi coverage for seamless app connectivity.
4. Install the battery in a secure, frost-free location, away from emergency access areas.



6.2 Connecting Your AB2000X



- Remove the silicone protective covers from the connection ports.

- Carefully align the AB2000X Battery Ports and gently place them into position. Vertically stacked AB2000X Batteries do not require a Battery Cable to establish a connection.

Tips:

- Turn off the storage system before making any connections.
- Do not connect the batteries while charging or discharging.
- Avoid touching the metal pins of the ports with your hands or any objects. If necessary, clean them gently with a dry cloth.

6.3 Connecting the Solar Inverter

Tips:

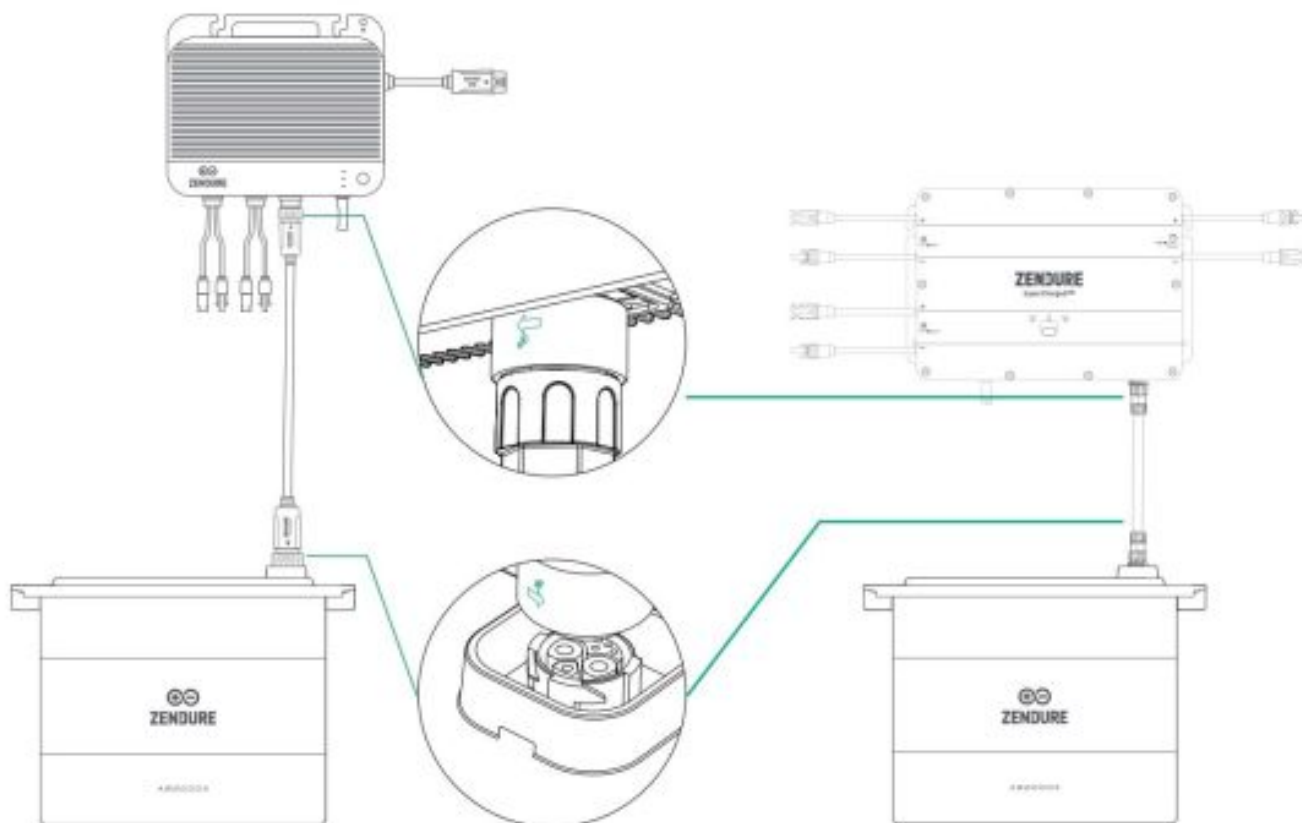
Ensure the storage system is off before connecting or disconnecting any cables, including the solar cable, battery cable, microinverter cable, and AC cable to the outlet.

- Power off the Solar Inverter: press and hold the power button on inverter for 6 seconds to turn it off.
- Unplug AC outlets to the home grid, and then disconnect the solar panel cable.

6.3.1 Connecting the SolarFlow 800/ Hub1200/Hub2000

Remove the silicone protective cover from the battery terminal on solar inverter and Add-on batteries.

Connect Add-on Batteries to SolarFlow 800/Hub 1200/Hub 2000 with the battery cable (not included in the battery package), the terminals of the battery cable can be self locking, when you hear a click, you have inserted the battery cable well.



A single SolarFlow 800 can be connected up to 6 AB2000X batteries, which can maximally reach to 11.52kWh capacity. The Hub1200/2000 connect to up to 4 batteries, reach to 7.68kWh.

6.3.2 Connecting the Hyper 2000 / ACE 1500 / SolarFlow 800 Pro

1. Remove the battery terminal protective cover at the bottom of the Hyper 2000 / ACE 1500 / SolarFlow 800 Pro.
2. Place the Hyper 2000/ ACE 1500/ SolarFlow 800 Pro on AB2000X, ensuring the battery cable terminals lock into place.



A Hyper 2000/ ACE 1500 can be connected to up to 4 AB2000X batteries, reaching a maximum capacity of 7.68kWh. The SolarFlow 800 Pro connect to up to 5 batteries.

Tips:

- **Battery Disconnection:** Do not disconnect the batteries during the charging or discharging process. If disconnection is necessary, ensure that the power of the inverter is turned off. To power off your SolarFlow System, press and hold the button for 6 seconds before removing the batteries.
- **Handling Ports:** Avoid touching the metal pins of the ports with your hands or other objects. When necessary, clean them gently with a dry cloth.
- **Standby Mode:** The product defaults to a 10-minute standby time. If the output power buttons are turned off and no other load is detected for 10 minutes, the product will automatically shut off. You can adjust the standby duration in the app.
- **Initial Usage:** For the first use, it is recommended to set the battery to the highest charge limit and the lowest discharge limit. Perform the following cycle once: discharge the battery to 5%, then charge it to 100%.

Refer to the user manual of the Hub 1200/Hub 2000/SolarFlow 800/Hyper 2000/ACE 1500/ SolarFlow 800 Pro for detailed instructions.

7. Firmware Update

1. Connect to the inverter such as SolarFlow 800

Upon first use, connect the AB2000X to the SolarFlow 800 to check for and install any available firmware updates.

2. Access the Settings:

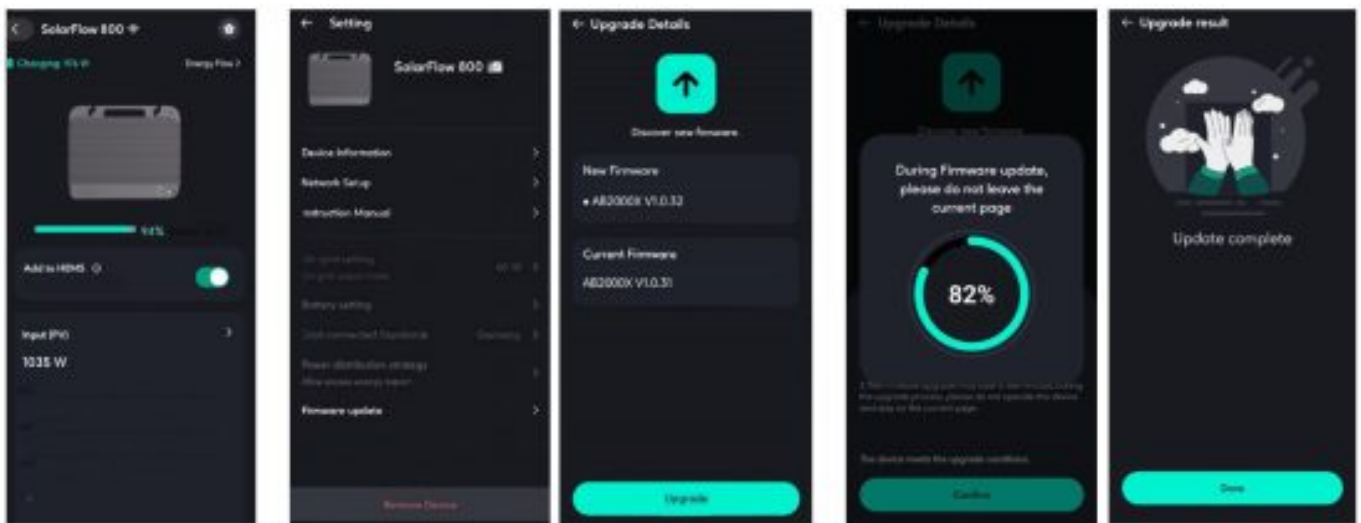
Open the detail page for the SolarFlow 800, tap the Settings icon in the top-right corner to access the Settings menu.

3. Check for Firmware Updates:

In the Settings menu, select Firmware Update to check the latest available update. If a new update is available, click Update to begin the process.

4. Wait for the Update to Complete:

Do not navigate away from this page during the update process. The update may take several minutes to complete.



Tips:

- Do not turn off the device during the firmware update.
- Do not disconnect any cables (including solar cables, battery connection, or the AC cable to the outlet) while updating.
- Ensure the battery charge level is above 20% before starting the update to allow sufficient time for completion.
- If the update fails, retry the update in the app or contact Zendure Customer Service.
- To perform an over-the-air (OTA) update via the Zendure App, refer to the Zendure App User Guide and access the download link here:
<https://zendure.com/pages/download-center>.
- Since the battery operates in conjunction with the inverters, please refer to their user manuals for detailed configuration settings.

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Zendure USA Inc.

ZENDURE TECHNOLOGY CO., LIMITED

Hours: Mon – Fri 9:00 – 17:00 Pacific

Phone: 001-[800-991-6148](tel:800-991-6148) (US)

0049-[800-627-3067](tel:800-627-3067) (DE)

Support / Contact:

<https://zendure.de/pages/contact>

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<https://zendure.com/pages/contact>

Website:

<https://zendure.de>

<https://eu.zendure.com>

<https://zendure.com>




Manufacturer: Zendure Technology Co.,Limited
Address: Office 92, 15th Floor, Lee Garden Two, 28 Yun Ping Road, Causeway Bay, Hong Kong
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EU Importer: Zendure DE GmbH
Address: Rheinallee 1,40549 Düsseldorf
E-mail: support@zendure.com
Phone: 0049-800-627-3067

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|  | <p>ZENDURE AB2000X Add on Battery [pdf] User Manual</p> <p>AB2000X Add on Battery, AB2000X, Add on Battery, Battery</p> |
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References

- [User Manual](#)

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