ZENDURE



Add-on Battery AB3000X

User Manual/Bedienungsanleitung/Manuel d'utilisation/
Manuale d'uso/Manual de usuario/Gebruikershandleiding

EN

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.

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1. Before You Begin

The information contained herein is subject to change without notice. For the latest version, please visit https://zendure.com/pages/zendure-global-warranty

2. Specification

Add-on Battery AB3000X	
Battery Rated Voltage	48V d.c.
Battery Life Cycle	6,000 Cycles
Rated Capacity	60Ah / 2,880Wh
Rechargeable Li-Ion Battery	$LiFePO_4$
Maximum Input/Output Power	One AB3000X Battery: 2,880W
	Two or More Batteries: 3,840W
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℃ ~0℃ (-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 months
Aerosol Fire Suppression System	Yes
Activation temperature of the Aerosol Fire Suppression System	170℃ ±10℃ (338° F ±18° F)
Battery Protection	Overvoltage, Overcurrent, Short-circuit, Overheat Protections
Compatibility	SolarFlow 2400 AC, AB3000X
Dimension	477.5*320*194mm
Weight	26.1 kg
IP Rating	IP65

3. Safety Instruction

3.1 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.

3.2 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., lithium-ion, 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.

3.3 FCC Caution

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

3.4 EC DECLARATION OF CONFORMITY

ZENDURE TECHNOLOGY CO., LIMITED declares that the AB3000X 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.

4. Important Tips

	Protect from Direct Sunlight: Ensure that the AB3000X 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 35° C (59° F to 95° F), away from water, heat sources, or sharp objects that could cause damage.
	For long-term storage, discharge the battery to 30% and recharge it to 60% every 3 months. If it drops below 1% after use, recharge it to 60% before storing. Prolonged low power can cause irreversible damage and shorten the battery's lifespan.
	No Disassembly: Do not attempt to disassemble the product. For repairs or servicing, consult official Zendure channels. Improper handling could pose risks of fire or personal injury.
	Low-Temperature Protection: The AB3000X will forcibly implement a discharge lower limit of 5%, preventing over-discharging of the AB3000X and extend the battery life.

5. What's in the Box



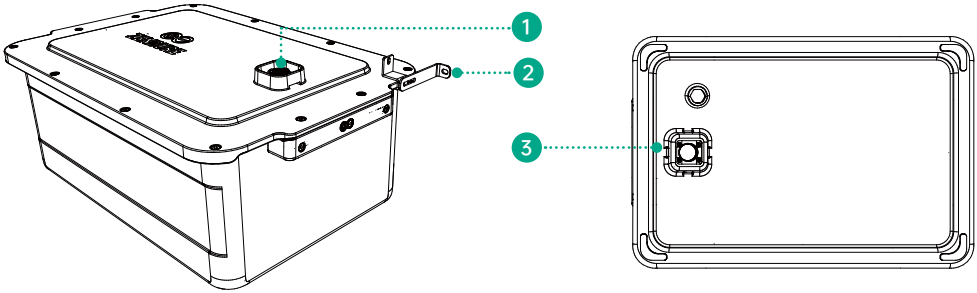
Add-on Battery AB3000X



User Manual

Product and accessory images may differ slightly from the actual items. If any parts are missing or defective, please contact the Zendure support team.

6. Product Overview



1. Top Battery Port: Connects to the SolarFlow 2400 AC or other AB3000X batteries, allowing for expanded capacity.
2. Mounting Brackets: These brackets securely attach the AB3000X battery to a vertical wall, preventing tipping when stacking multiple units. Not included with this product — only in the SolarFlow 2400 AC package.
3. Bottom Battery Port: Connects to additional AB3000X batteries for parallel expansion.

7. 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 2400 AC.

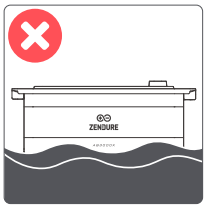
LED Indicator	LED Description	Detailed Explaination
	Solid Green	Battery is operating normally and connected. Battery status is indicated by 4 green LEDs: ● 1 Green LED: 0-25% battery ● 2 Green LEDs: 26-50% battery ● 3 Green LEDs: 51-75% battery ● 4 Green LEDs: 76-100% battery Example: At 60% battery level, three green LEDs will be illuminated.
	Blinking Green	Charging the Battery
	Slow Red Blink on First LED	Battery level below 5%.
	Solid Yellow	Indicates the battery level and the battery is in protection mode.

	Solid Red	Battery error detected; check the system for troubleshooting.
	Slow Yellow Blink	Low temperature detected; the battery pack is heating to reach operational temperature.

⚠ Tips:
The battery indicator may not light up under the following conditions, indicating an unsuccessful connection. You can take the following actions:
- If there is no solar connection or sunlight during installation, the AB3000X may be out of power. Do not unplug the battery connection cable. Wait for solar input and check the battery indicator again.
- If the AB3000X enters protection mode, press and hold the power button for 6 seconds to turn off the system. Then, press and hold the IoT button for 2 seconds to restart it. Wait approximately 5 minutes and check the battery indicator again.
- If the issue persists, do not unplug any cables. Please contact the Zendure support team for assistance.

8. Getting Started

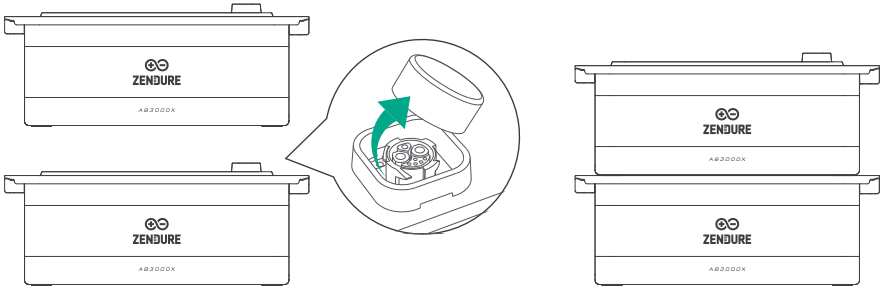
8.1 Choose an Appropriate Location



1. Place the AB3000X 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 35° C (59° F to 95° F) to maintain optimal performance.
3. Position the AB3000X 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.

8.2 Connecting Multiple AB3000X Batteries

Carefully align the AB3000X Battery Ports and gently place the battery into position. Vertically stacked AB3000X batteries do not require a battery cable for connection.

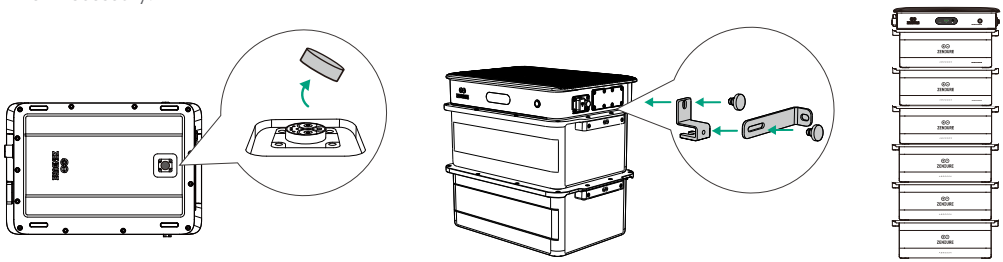


⚠ Tips:
- Turn off the storage system before making any connections.
- Do not connect the batteries while charging or discharging.
- Avoid touching the metal pins of the ports with your hands or any objects. If necessary, clean them gently with a dry cloth.

8.3 Connecting the SolarFlow 2400 AC

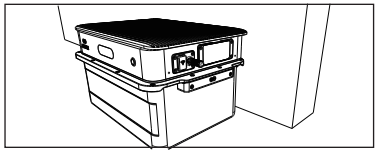
⚠ Tips:
Ensure the System (SolarFlow 2400 AC) is powered off before connecting or disconnecting any cables (including solar cable, AC cable to outlet).
- Unplug AC outlets to the home grid, and then disconnect the solar panel cable.
- Power off the SolarFlow 2400 AC: press and hold the power button on the SolarFlow 2400 AC for 6 seconds to turn it off.

1. Remove the Protective Cover
Remove the battery terminal protective cover at the bottom of the SolarFlow 2400 AC.
2. Connect to the Battery
Place the SolarFlow 2400 AC on AB3000X, ensuring the battery cable terminals lock into place. A SolarFlow 2400 AC can be connected to up to 6 AB3000X batteries, reaching a maximum capacity of 17,280 Wh.
• Do not disconnect them during the charging/discharging process.
• Do not touch the metal pins of the ports with your hands or other objects. Gently clean them with a dry cloth when necessary.

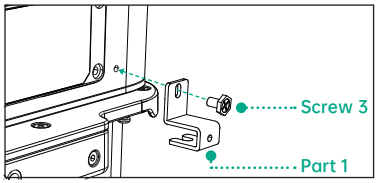


8.4 Mounting AB3000X Batteries

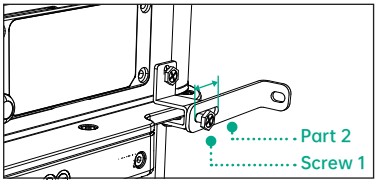
This is especially important when stacking multiple batteries, as the mounting kit (included with the SolarFlow 2400 AC but not in the AB3000X package) is designed to secure only the topmost battery in the stack, ensuring it remains stable and firmly in place.



Step 1: Positioning
• Place the AB3000X and SolarFlow 2400 AC unit in the designated installation location, ensuring adequate clearance between the device and the wall.

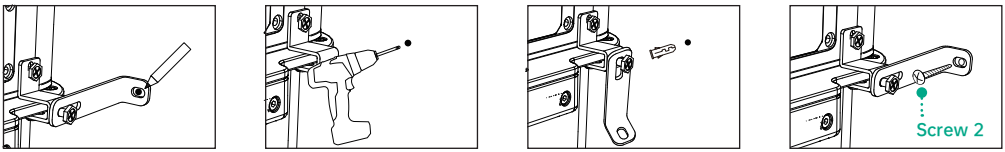


Step 2: Securing Part 1
• Align the slots on Part 1 with the mounting rivets on the edge of the AB3000X and press down firmly until locked in place.
• Insert Screw 3 through the top hole of Part 1, aligning it with the mounting hole at the base of the SolarFlow unit, and tighten using a hex screwdriver (not included).



Step 3: Adjusting and Securing Part 2
• Insert Screw 1 into the sliding rail of Part 2 and loosely attach it to the lower hole of Part 1.
• Slide Part 2 horizontally until it is perpendicular to the wall and its mounting surface sits flush against it.

Step 4: Wall Preparation and Final Fixing
• Mark the positions of the mounting holes where Part 2 contacts the wall, then move Part 2 aside to create space for drilling.
• Use a power drill (not included; M6 drill bit recommended) to drill holes at the marked spots and insert plastic wall anchors.
• Secure Part 2 by inserting Screw 2 through its mounting holes and tightening it into the wall anchors. Then, fully tighten Screw 1 to ensure the device is stable and secure.



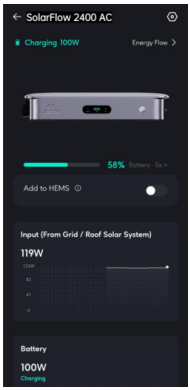
Note: The package includes two sets of brackets. Repeat the steps on the other side of the device for dual-end fixation, enhancing stability.

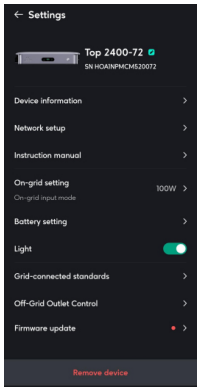
9. Firmware Update

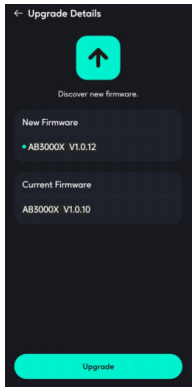
Connect to SolarFlow 2400 AC
Upon first use, connect the AB3000X to the SolarFlow 2400 AC to check for and install any available firmware updates.

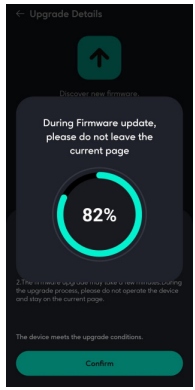
Access the Settings:
Open the detail page for the SolarFlow 2400 AC, tap the Settings icon in the top-right corner to access the Settings menu.

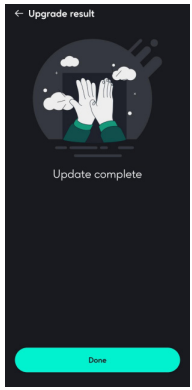
Check for Firmware Updates:
In the Settings menu, select Firmware Update to check the latest available update. If a new update is available, click Update to begin the process.











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.
Since the battery operates in conjunction with the SolarFlow 2400 AC, please refer to their user manuals for detailed configuration settings.
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.

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