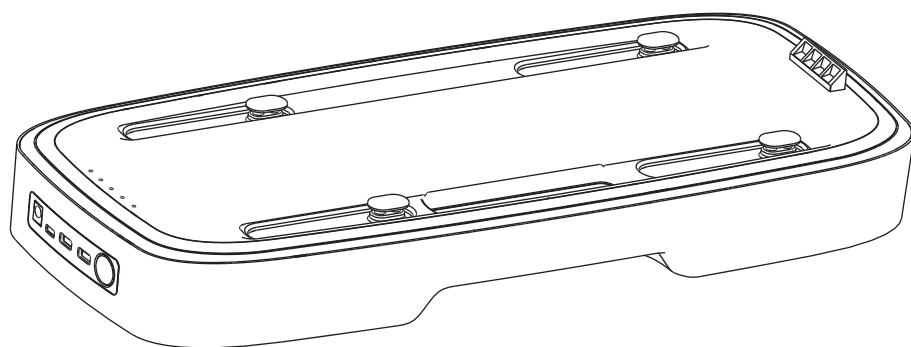


# MARK 2 BATTERY

User Manual

V2.1



[www.zerobreeze.com](http://www.zerobreeze.com)

# CONTENTS

DISCLAIMER	01
SAFETY WARNINGS	02
WHAT'S IN THE BOX	06
PRODUCT DESCRIPTION	07
SPECIFICATION	08
BATTERY CHARGING	08
MAINTENANCE AND STORAGE	10
BATTERY DISPOSAL AND RECYCLING	11
TRANSPORTATION NOTICE	11
WARRANTY AND RETURN POLICY	12

Thank you for purchasing the ZERO BREEZE™ Mark 2 Battery.

This high-performance, portable battery is designed to provide reliable and convenient power for your Mark 2 portable air conditioner in various outdoor and off-grid environments.

Before using this product, we strongly recommend reading this user manual thoroughly to understand how to operate the battery safely, avoid misuse, and maintain its performance and longevity. This manual contains essential information about safety precautions, proper handling, storage, and disposal. If you have any questions or encounter conditions not covered in this guide, please visit <https://www.zerobreeze.com> or contact [support@zerobreeze.com](mailto:support@zerobreeze.com) for assistance.

# DISCLAIMER

By using this product, you acknowledge that you have read, understood, and agreed to all terms, conditions, safety warnings, and instructions outlined in this manual and any related documents provided by ZERO BREEZE.

You agree to use this product only as intended and in accordance with all applicable safety guidelines and local laws. You further acknowledge and accept that you are solely responsible for your own conduct and for any results or consequences arising from the use, misuse, or improper handling of this product.

ZERO BREEZE assumes no liability for any injury, damage, loss, or legal claims incurred directly or indirectly from the use of this product, including but not limited to the use of unauthorized accessories, third-party chargers, or failure to follow the instructions contained herein.

This product and all accompanying documentation are provided "as is" and "as available," without warranty of any kind, unless expressly stated in our official after-sales policies.

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ZERO BREEZE reserves the right to modify or update this manual and any related materials at its sole discretion without prior notice. For the most current information, please refer to the official website at <https://www.zero-breeze.com>.

# SAFETY WARNINGS

## General Precautions

1. Read this manual thoroughly before using the Mark 2 Battery. Failure to follow the instructions and safety warnings may result in damage to the battery, property loss, injury, or even death.
2. This manual does not cover every possible usage scenario or hazard. Users are expected to exercise common sense and sound judgment when using the battery, especially in conditions not explicitly described in this guide.
3. Only adults with adequate knowledge of battery safety should operate or handle this product. Children and individuals with reduced physical, sensory, or cognitive abilities must only use the battery under close supervision and with clear instruction.
4. Ensure the battery is used only with official ZERO BREEZE equipment. The use of unauthorized accessories, third-party power adapters, or modifications may cause malfunction, fire, or personal injury.
5. Always inspect the battery and any charging cables before use. DO NOT use the battery if you observe swelling, puncture, corrosion, odor, leakage, or other signs of damage. Contact ZERO BREEZE support if any issue is found.
6. DO NOT attempt to disassemble, modify or repair the battery in any way. Doing so may result in electric shock, fire, or explosion.
7. DO NOT pierce, crush, or drop the battery. Physical damage to the battery may result in internal short circuits or thermal runaway.
8. DO NOT insert any metal objects (such as wires, coins, jewelry, or hairpins) into the battery's input/output ports. Doing so may cause short circuits, electric shock, or fire.
9. Ensure the battery is powered off before connecting or disconnecting from any device.
10. Keep the battery out of reach of children and pets at all times.



11. DO NOT cover the battery with blankets, clothing, or any materials that can trap heat or obstruct ventilation during use or charging.

12. Under no circumstances should you attempt to use the battery for purposes other than powering authorized ZERO BREEZE devices.

## **Charging Instructions**

1. Only use official ZERO BREEZE power adapters and accessories specifically designed for the Mark 2 Battery. Using third-party or unapproved charging equipment may result in overheating, fire, explosion, or electric shock.

2. DO NOT attempt to charge the battery through the output ports (DC Jack, USB-A, or Type-C). Only use the designated charging input port for recharging.

3. Before connecting a battery for charging, ensure both the battery and power adapter are powered off. DO NOT connect or disconnect the battery during active operation.

4. DO NOT charge the battery in direct sunlight, in a vehicle on a hot day, or near any heat source. Always charge the battery in a cool, dry, and well-ventilated area.

5. DO NOT charge the battery on carpets, blankets, or other heat-retaining or flammable surfaces. Place the battery on a flat, hard, and heat-resistant surface during charging.

6. During charging, keep the battery away from flammable materials, including curtains, paper, and clothing. Maintain a minimum of 50 cm (20 inches) of clearance around all sides of the battery to allow proper airflow and heat dissipation.

7. The battery may become warm during charging. This is normal. However, discontinue charging immediately if the battery becomes excessively hot, emits an unusual smell, or shows any sign of deformation or leakage.

8. DO NOT overcharge the battery. Remove it from the power supply once charging is complete.

9. DO NOT leave the battery unattended during the charging process.

10. NEVER reverse the positive and negative terminals when charging. Reversed polarity may result in damage to the battery and create a risk of fire or explosion.

11. Inspect all charging cables and connectors regularly. DO NOT use damaged or frayed cables. If dirt or debris is present on the connector, ensure the battery is powered off and disconnected before cleaning.

12. To unplug the power adapter or charging cable, always grasp the plug firmly. DO NOT pull on the cable itself to prevent internal wire damage or connector failure.

## **Usage Environment**

1. Use and store the battery in environments with a temperature range of 23°F to 104°F (–5°C to 40°C). Operating or storing the battery outside of this range may result in performance degradation, overheating, or fire.

2. DO NOT expose the battery to direct sunlight for extended periods, especially during charging. Prolonged heat exposure may cause the battery to swell, leak, or catch fire.

3. DO NOT use or store the battery in enclosed spaces with poor ventilation, such as inside tightly sealed containers, under blankets, or in unventilated cabinets. Proper airflow is essential to prevent heat buildup.

4. Avoid using or charging the battery in humid, wet, or rainy environments. Moisture can lead to short circuits, corrosion, or electric shock. This product is not waterproof.

5. DO NOT store or operate the battery near flammable gases, open flames, heaters, or combustible materials. Keep the battery away from fire or high-temperature sources at all times.

6. DO NOT use or attempt to charge the battery if it appears damaged, swollen, leaking, or emitting any unusual odor. Immediately stop use and contact ZERO BREEZE support.

7. Keep the battery away from corrosive substances such as acids, alkaline materials, or salty air environments (e.g., coastal or marine settings) that could damage internal circuits or the battery casing.

8. DO NOT place heavy objects on the battery during storage or use. Always keep the unit in a stable, upright position on a hard, flat surface.

9. Ensure the battery is used in a clean environment. Avoid areas with excessive dust, dirt, or debris, which may affect performance or block ventilation ports.

## **Emergency Handling**

1. If the battery emits smoke, sparks, or a burning smell during use or charging, immediately disconnect it from all devices and move it to an open, ventilated area away from people, flammable materials, and other batteries.

2. In the event of a fire, DO NOT use liquid-based fire extinguishers. Use a Class D or dry powder fire extinguisher specifically designed for lithium battery fires. Sand may also be used in emergencies.

3. If the battery is damaged and leaking fluids, avoid direct contact with the leaking substance. Wear protective gloves if necessary. If the substance comes into contact with skin or eyes, rinse immediately with plenty of clean water and seek medical attention.

4. If the battery is accidentally submerged in water, DO NOT touch it directly. Take anti-electric shock precautions first, then carefully move the battery to a safe and open area. Do not attempt to use the battery again. Dispose of it according to proper battery disposal regulations.

5. If the battery is dropped, impacted, or physically deformed, inspect it immediately. DO NOT use the battery if you notice any swelling, cracking, or other signs of internal damage.

6. DO NOT continue using a battery that shows abnormal behavior, such as overheating, swelling, leaking, or inconsistent power output. Stop use immediately and contact ZERO BREEZE support.

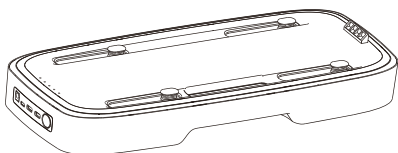
7. In all cases of emergency, prioritize personal safety. If unsure, isolate the battery and seek professional assistance or contact your local hazardous materials agency or fire department.

# WHAT'S IN THE BOX

Check that all the following items are in your package. If any items are missing, please contact ZERO BREEZE® or your local dealer.

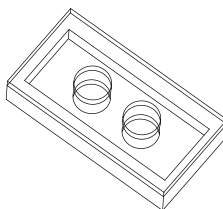
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Mark 2 Smart Battery × 1



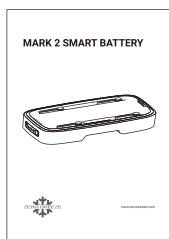
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Window Slider × 1



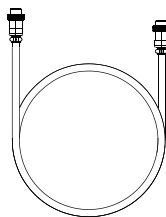
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Mark 2 Battery User Guide × 1

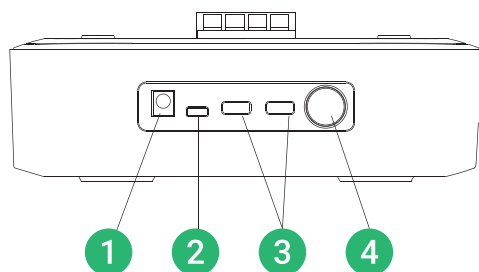
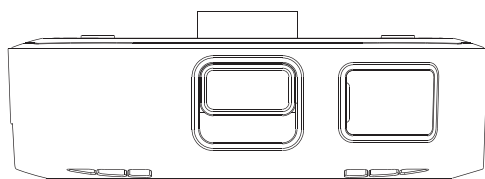
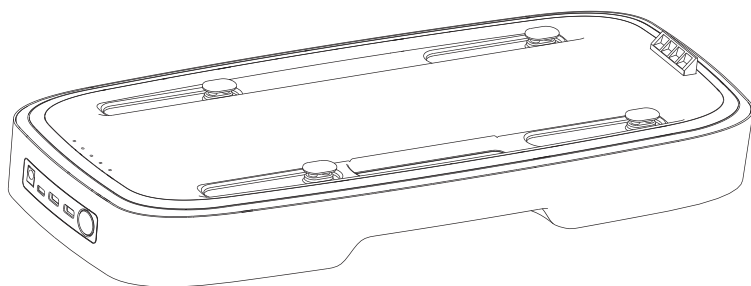


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Cable for Mark 2 AC × 1

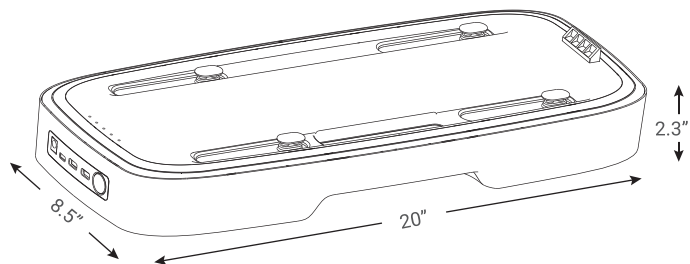


# PRODUCT DESCRIPTION



1.DC Jack    2.Type-C    3.USB    4.ON/OFF

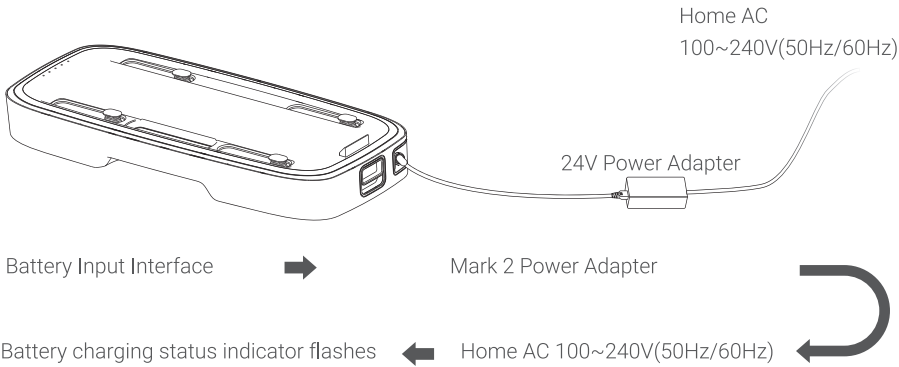
# SPECIFICATION




























Battery Type:	18650 Lithium Ion Polymer Battery
Capacity:	24V 35Ah / 840Wh
DC Charge Input:	18V - 36V (Recommended input voltage: 21V - 27V)
Full Charge Time:	About 6 hours (by official power adapter)
DC Jack Output:	12V / 5A Max
USB Type C:	PD(5V,9V,12V,20V/45W Max)
USB Type A:	5V / 2A Max
Net Weight:	12lb
Unit Size:	20.0"L x 8.6"W x 2.3"H
Operation Temperature:	32°F - 104°F

# BATTERY CHARGING

## Charging the Battery Through the Power Adapter



**BATTERY charging state**

LED1	LED2	LED3	LED4	LED5	Battery Level
					0%-20%
					20%-40%
					40%-60%
					60%-80%
					Full

# MAINTENANCE AND STORAGE

1. To extend battery lifespan, it is recommended to fully charge and discharge the battery once every three months when not in regular use. This helps maintain cell balance and overall battery health.
2. DO NOT leave the battery in a fully discharged state for extended periods. Doing so may trigger low-voltage protection or lead to over-discharge, resulting in irreversible cell damage.
3. For long-term storage, charge the battery to around 60% before storing. Avoid storing the battery at 100% or 0% charge levels for prolonged periods.
4. Store the battery in a cool, dry, and well-ventilated environment. Avoid areas exposed to direct sunlight, high humidity, or large temperature fluctuations.
5. The recommended storage temperature range is 23°F to 104°F (−5°C to 40°C). DO NOT store the battery in vehicles, tents, or enclosed outdoor structures during hot weather.
6. Keep the battery away from water, dust, flammable materials, and corrosive substances such as acids or salt air environments.
7. If the battery or its ports become dirty, clean gently with a dry, lint-free cloth. DO NOT use alcohol, solvents, or any flammable cleaning agents.
8. DO NOT store heavy objects on top of the battery or place the battery in a tilted or unstable position during storage.
9. If storing the battery for more than six months, it is recommended to perform a maintenance cycle (discharge to 15%, then recharge to 100%) once every four months. Always monitor the battery's condition and voltage level during extended storage periods.



# **BATTERY DISPOSAL AND RECYCLING**

1. DO NOT dispose of the battery in household trash or general waste. This battery contains chemicals that may be hazardous to the environment and human health if not handled properly.
2. Dispose of the battery in accordance with all applicable local, state, and national regulations regarding battery recycling and hazardous waste.
3. Fully discharge the battery before disposal whenever possible. If the battery cannot be fully discharged due to damage or malfunction, isolate it and contact a certified battery disposal service.
4. DO NOT incinerate, crush, or expose the battery to fire as this may cause an explosion or release of toxic substances.
5. If the battery is swollen, leaking, punctured, exposed to water, or physically damaged in any way, DO NOT dispose of it directly. Contact your local battery recycling facility or hazardous materials agency for proper handling.
6. Keep the battery in a fireproof container or non-conductive bag when transporting it to a recycling center or storage area for disposal.
7. ZERO BREEZE is not responsible for any injury, damage, or environmental harm caused by improper disposal of the battery. Users are responsible for ensuring safe and lawful recycling practices.

# **TRANSPORTATION NOTICE**

1. This battery contains lithium-ion cells and must be transported in accordance with local and international regulations for hazardous goods, including UN 3480/3481 standards.
2. DO NOT carry this battery onto an airplane as checked or carry-on luggage. Contact your airline or shipping service for specific lithium battery transport policies.

3. Before transportation, ensure the battery is powered off and disconnected from all devices. The terminals must be protected to prevent short-circuiting during transit.
4. Whenever possible, use the original ZERO BREEZE packaging to protect the battery from impact, vibration, and exposure during transportation.
5. DO NOT transport the battery with metal objects such as coins, keys, tools, jewelry, or other conductive items that could cause a short circuit.
6. DO NOT transport or ship a battery that is damaged, swollen, leaking, punctured, exposed to water, or suspected of malfunction. Contact a certified battery disposal or logistics service provider for specialized handling.
7. During transport, keep the battery in a fire-resistant container or an anti-static, non-conductive bag for added protection.
8. If shipping internationally, ensure that the battery complies with the destination country's import and safety standards, including labeling, documentation, and quantity limitations.

## **WARRANTY AND RETURN POLICY**

1. The ZERO BREEZE Mark 2 Battery is covered by a one-year limited warranty, effective from the date of product delivery. The warranty applies only to the original purchaser and is non-transferable.
2. The warranty covers defects in materials and workmanship under normal use in accordance with this user manual.
3. The following conditions are NOT covered under warranty:
  - Damage caused by misuse, abuse, accidents, drops, or unauthorized modifications;
  - Damage resulting from use with non-ZERO BREEZE products or third-party accessories;
  - Exposure to water, fire, or corrosive environments;
  - Damage due to improper storage, over-discharge, or charging with unofficial power supplies.

4. To initiate a warranty claim, please complete the Warranty Request Form available on the official website at <https://www.zerobreeze.com/pages/warranty-policy>, and submit it along with proof of purchase.

5. If your claim is approved and falls within the warranty period, ZERO BREEZE will, at its discretion, repair or replace the defective product.

6. If the warranty period has expired, repairs or replacements may still be offered for a fee. Contact [support@zerobreeze.com](mailto:support@zerobreeze.com) for further assistance.

7. The product is eligible for return within 30 calendar days of delivery. Returns are accepted only for products in original condition and packaging, and with all accessories included.

8. Return requests made after the 30-day return window will not be accepted under any circumstances.

9. Shipping fees for returns and warranty claims are the responsibility of the customer unless otherwise specified by ZERO BREEZE support.

10. For the latest warranty and return policy details, please refer to the official warranty page at <https://www.zerobreeze.com/pages/warranty-policy> and the refund policy page at <https://www.zerobreeze.com/policies/refund-policy>, or contact ZERO BREEZE customer support at [support@zerobreeze.com](mailto:support@zerobreeze.com).

11. Warranty and return policies may vary by region. For orders placed outside of the contiguous United States, additional conditions such as shipping responsibilities, service procedures, or dealer-specific policies may apply. Please refer to your purchase confirmation or contact [support@zerobreeze.com](mailto:support@zerobreeze.com) for region-specific guidance.



Video Tutorial

Visit our official website to watch a video tutorial at [www.zerobreeze.com](http://www.zerobreeze.com)

Warning: Before using this product, please read this manual carefully and keep it for future reference.

The design and specifications are subject to change without prior notice for product improvement.

Consult with your dealer or manufacturer for details.