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## Wattcycle WV24V100AH100

# Wattcycle 24V 100Ah LiFePO4 Lithium Battery

Model: WV24V100AH100

## 1. INTRODUCTION

Thank you for choosing the Wattcycle 24V 100Ah LiFePO4 Lithium Rechargeable Battery. This manual provides essential information for the safe and efficient use of your battery. Please read it thoroughly before installation and operation.

This battery is designed to provide long-lasting and reliable power for various applications, including solar systems, RVs, boats, and other 24V equipment. It features a built-in 100A Battery Management System (BMS) and A+ grade cells for enhanced safety and performance.



Image: The Wattcycle 24V 100Ah LiFePO4 Lithium Battery, showcasing its design and key specifications on the label.

## 2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the battery and connected equipment:

- Do not short-circuit the battery terminals.
- Do not expose the battery to fire or extreme heat.
- Do not immerse the battery in water or other liquids.
- Ensure proper ventilation during charging and discharging.
- Use only compatible chargers and equipment.
- Keep the battery away from children and pets.
- The built-in 100A BMS provides protection against overcurrent, overcharge, over-discharge, and short circuits. However, always operate within specified limits.

## A+ Grade Cells, Built-in 100A BMS 10 years lifespan, 15000 cycles



Over-charge



Over-current



Over-discharge



Short circuit

*Image: Internal components of the Wattcycle LiFePO4 battery, illustrating the A+ grade cells and the 100A BMS with icons for over-charge, over-current, over-discharge, and short circuit protection.*

### 3. WHAT'S IN THE BOX

Upon opening the package, you should find the following items:

- 1 x Wattcycle 24V 100Ah LiFePO4 Battery

### 4. SETUP

Follow these steps for initial setup and connection:

1. **Inspection:** Before installation, inspect the battery for any visible damage.
2. **Terminal Connection:** Connect the positive (+) terminal of the battery to the positive terminal of your system and the negative (-) terminal to the negative terminal. Ensure connections are secure and tight to prevent arcing.
3. **Parallel/Series Connection (if applicable):** This 24V battery can be used individually or as part of a larger system. For parallel or series connections, consult a qualified electrician and refer to the system's specific wiring diagrams.
4. **Initial Charge:** It is recommended to fully charge the battery before its first use.



*Image: An illustration demonstrating how a single 24V 100Ah LiFePO4 battery can provide equivalent capacity to two 12V 100Ah lead-acid batteries, highlighting reduced wiring and space savings.*

## 5. OPERATING

The Wattcycle 24V 100Ah LiFePO4 battery is designed for deep cycle applications, offering reliable power output.

- **Discharge Rate:** The battery is equipped with a 100A BMS, which will disconnect the battery if the discharge current exceeds 100A to protect the cells.
- **Operating Temperature:** The battery can operate in a wide range of temperatures. The minimum discharge temperature is -4°F (-20°C) and the maximum discharge temperature is 158°F (70°C).
- **Applications:** This battery is suitable for various applications including RVs, marine vessels, solar

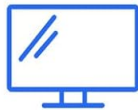
energy storage, and off-grid power systems.



## Long Time Work



Bulb 55w  
**46.6hrs**



TV 100W  
**25.6hrs**



Refrigerator 500W  
**5.1hrs**



Microwave 800W  
**3.2hrs**



Coffee maker 1000W  
**2.6hrs**

*Image: A diagram illustrating the estimated runtime of the 24V 100Ah LiFePO4 battery (2560Wh) for common appliances such as a 55W bulb (46.6 hrs), 100W TV (25.6 hrs), 500W refrigerator (5.1 hrs), 800W microwave (3.2 hrs), and 1000W coffee maker (2.6 hrs).*



# Multi application



Image: A collage depicting diverse applications for the Wattcycle LiFePO<sub>4</sub> battery, including farm power, solar energy systems, off-grid residences, and data centers (IDC).

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your Wattcycle LiFePO<sub>4</sub> battery, follow these maintenance tips:

- **Storage:** Store the battery in optimal temperature and humidity conditions. Avoid extreme temperatures.
- **Periodic Charging/Discharging:** If the battery is not in use for extended periods, charge and discharge it every 6 months to prevent damage from disuse and maintain cell health.
- **Terminal Cleaning:** Periodically check and clean the battery terminals to ensure good conductivity and prevent corrosion.

## 7. TROUBLESHOOTING

If you encounter issues with your battery, consider the following common troubleshooting steps:

- **Battery Not Charging:**
  - Check charger connection and ensure it is compatible with LiFePO<sub>4</sub> batteries.
  - Verify the charger's output voltage and current.
  - Ensure the battery terminals are clean and connections are secure.

- **Battery Not Discharging/No Power Output:**

- Check load connections and ensure they are secure.
- Verify that the load current does not exceed the 100A BMS limit. The BMS may have triggered a protection mode. Disconnect the load and reconnect after a few minutes.
- Check the battery's voltage. If it's too low, it may need charging.

- **Unusual Odor or Swelling:**

- Immediately disconnect the battery from all loads and chargers.
- Contact Wattcycle customer support for assistance. Do not attempt to use or repair the battery.

For issues not covered here, please contact Wattcycle customer support.

## 8. SPECIFICATIONS

Key technical specifications for the Wattcycle 24V 100Ah LiFePO4 Lithium Rechargeable Battery:

Feature	Specification
Model	WV24V100AH100
Voltage	24 Volts
Capacity	100 Amp Hours
Energy	Max. 2560Wh
Battery Cell Composition	Lithium Iron Phosphate (LiFePO4)
Built-in BMS	100A
Lifespan	Up to 15,000 cycles (optimal conditions), 10 years
Dimensions (L x W x H)	19 x 6.6 x 9.4 inches (48.3 x 17 x 24 cm)
Weight	44 lbs (20 kg)
Min. Discharge Temperature	-4°F (-20°C)
Max. Discharge Temperature	158°F (70°C)

# Small Size Large Capacity

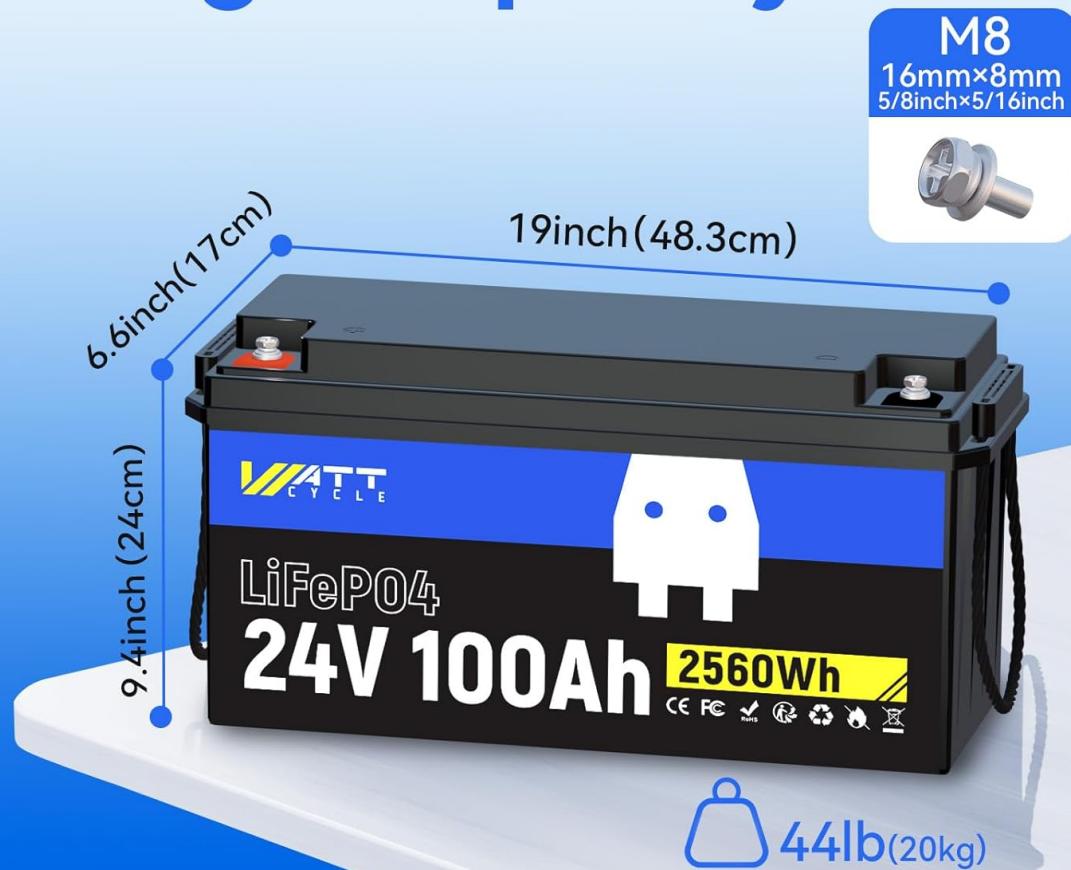


Image: Detailed dimensions of the Wattcycle 24V 100Ah LiFePO4 battery, showing its length (19 inches / 48.3 cm), width (6.6 inches / 17 cm), and height (9.4 inches / 24 cm), along with its weight (44 lbs / 20 kg).



# Work Perfectly in Extreme Temperatures

Min. discharge temperature

-4°F(-20°C)

Max. discharge temperature

158°F(70°C)



*Image: Information on the extreme temperature performance of the Wattcycle LiFePO4 battery, indicating a minimum discharge temperature of -4°F (-20°C) and a maximum discharge temperature of 158°F (70°C).*

## 9. WARRANTY AND SUPPORT







Wattcycle stands behind the quality of its products.

- **Warranty:** This battery comes with a 5-Year Worry-Free Warranty, which includes free replacement for manufacturing defects.
- **Customer Support:** Wattcycle offers 24/7 customer support. For any questions, troubleshooting assistance, returns, or setup help, please contact our Nevada-based team.

For further assistance, please visit the official Wattcycle store or contact customer service through the platform where you purchased the product.

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	<p><a href="#">WattCycle 12V LiFePO4 Deep Cycle Battery User Manual</a></p> <p>Comprehensive user manual for WattCycle 12V LiFePO4 deep cycle batteries, covering features, specifications, installation, charging, BMS functions, warranty, and troubleshooting. Includes detailed product information and best practices.</p>
	<p><a href="#">WattCycle LiFePO4 Deep Cycle Battery User Manual for Golf Carts</a></p> <p>Comprehensive user manual for WattCycle LiFePO4 deep cycle batteries, including features, specifications, installation, charging, and best practices for golf carts and other applications.</p>
	<p><a href="#">WattCycle 12V LiFePO4 Batteries: Specifications and Usage Guide</a></p> <p>Detailed specifications, safety guidelines, and connection information for WattCycle's 12V LiFePO4 battery series, including models from 50Ah to 400Ah.</p>
	<p><a href="#">WattCycle 24V 314Ah LiFePO4 Battery User Manual   Bluetooth Enabled</a></p> <p>Comprehensive user manual for the WattCycle 24V 314Ah Ultra Lithium LiFePO4 Battery with Bluetooth. Learn about installation, operation, safety, specifications, and maintenance for reliable power.</p>
	<p><a href="#">WattCycle 12V 100Ah LiFePO4 Battery with Bluetooth App User Manual</a></p> <p>User manual for the WattCycle 12V 100Ah LiFePO4 battery, covering its features, operation, and management via the integrated Bluetooth application. Provides guidance on installation, usage, and troubleshooting for optimal performance.</p>
	<p><a href="#">WattCycle 48V 100Ah Server Rack 3U Battery Operation Manual and Installation Guide</a></p> <p>Comprehensive operation manual and installation guide for the WattCycle 48V 100Ah Server Rack 3U Battery, a low-voltage LiFePO4 energy storage system. Covers safety, product overview, technical specifications, installation, commissioning, and maintenance procedures.</p>