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## Heybike YM1

# Heybike Electric Bike YM1 User Manual

Model: YM1

## 1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your Heybike YM1 Electric Bike. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize your riding experience. Retain this manual for future reference.

The Heybike YM1 is an electric mountain bike designed for adults, featuring a powerful motor, a removable battery, and front suspension for versatile riding conditions.

## 2. SAFETY GUIDELINES

Your safety is paramount. Always adhere to local traffic laws and regulations. Wear a helmet and appropriate safety gear during every ride.

- **Pre-Ride Check:** Before each ride, inspect tires for proper inflation and wear, check brake functionality, ensure all quick releases are tightened, and verify battery charge level.
- **Helmet Use:** Always wear a certified bicycle helmet.
- **Visibility:** Use the integrated LED headlight and reflective elements, especially when riding in low light conditions. Consider additional lighting and reflective clothing.
- **Weather Conditions:** Exercise caution when riding in wet or slippery conditions. Braking distances increase significantly.
- **Weight Limit:** Do not exceed the maximum load capacity of 330 lbs (150 kg).
- **Age Recommendation:** This electric bike is intended for adult use.
- **Battery Safety:** Do not attempt to open or modify the battery. Use only the provided charger. Avoid exposing the battery to extreme temperatures or direct sunlight for prolonged periods.

## 3. PRODUCT OVERVIEW & COMPONENTS

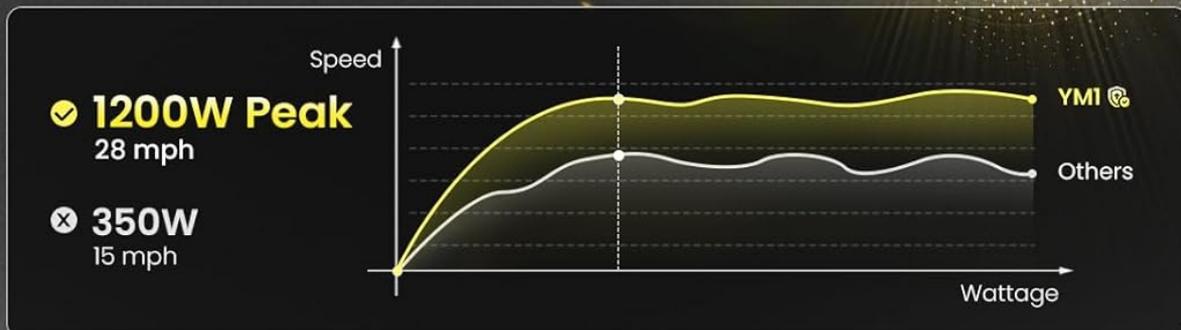
The Heybike YM1 Electric Bike is equipped with several key components designed for performance and comfort.

# Powerful Brushless Motor

# 1200W



## Stable Output



 **1200W**  
Peak

 **28**  
mph

 **60 N.M**  
Max Torque

 **15°**  
Slope

Figure 3.1: Overview of the Heybike YM1 Electric Bike.

### Key Features:

- **Motor:** 1200W Peak Brushless Motor, providing speeds up to 28 MPH.
- **Battery:** 48V 10Ah (480WH) Removable Lithium Battery, offering a range of 31-50 miles per charge. Features overcharge protection.
- **Tires:** 27.5-inch puncture-resistant tires for various terrains.

- **Suspension:** High-strength front suspension fork for improved ride comfort.
- **Gearing:** 7-speed Shimano gear system.
- **Brakes:** Dual disc brakes for reliable stopping power.
- **Display:** Smart LCD display showing speed, battery level, mileage, and PAS level.
- **Lighting:** Bright LED headlight and reflective warning device.
- **Comfort:** Adjustable ergonomic seat and adjustable stem.



Figure 3.2: Rider on the Heybike YM1 Electric Bike.

## 4. ASSEMBLY INSTRUCTIONS

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Your Heybike YM1 Electric Bike comes 90% pre-assembled. The final assembly process is straightforward and typically involves attaching the front wheel, handlebars, pedals, and seat.

### Required Tools:

- Multi-tool (often included)
- Hex wrenches
- Open-end wrenches

### Assembly Steps:

1. **Unpacking:** Carefully remove the bike and all components from the packaging. Retain packaging for potential returns or future transport.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely. Adjust the angle for comfort.
3. **Front Wheel Installation:** Install the front wheel, ensuring the disc brake rotor is correctly seated within the caliper. Secure the wheel with the quick-release skewer or axle nuts.
4. **Pedal Installation:** Identify the left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Apply a small amount of grease to the threads before installation.
5. **Seat Post and Saddle:** Insert the seat post into the frame and adjust the saddle height for a comfortable riding position. Secure with the quick-release lever.

6. **Fender Installation:** Attach the front and rear fenders if not already installed.
7. **Battery Installation:** Insert the fully charged battery into its compartment and ensure it locks securely.
8. **Final Checks:** Double-check all bolts, nuts, and quick releases for tightness. Verify brake and gear functionality.

For a visual guide, please refer to the assembly videos available on the product page or the Heybike official website.

## 5. BATTERY MANAGEMENT

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The Heybike YM1 is powered by a 48V 10Ah (480WH) removable lithium-ion battery. Proper battery care ensures longevity and optimal performance.

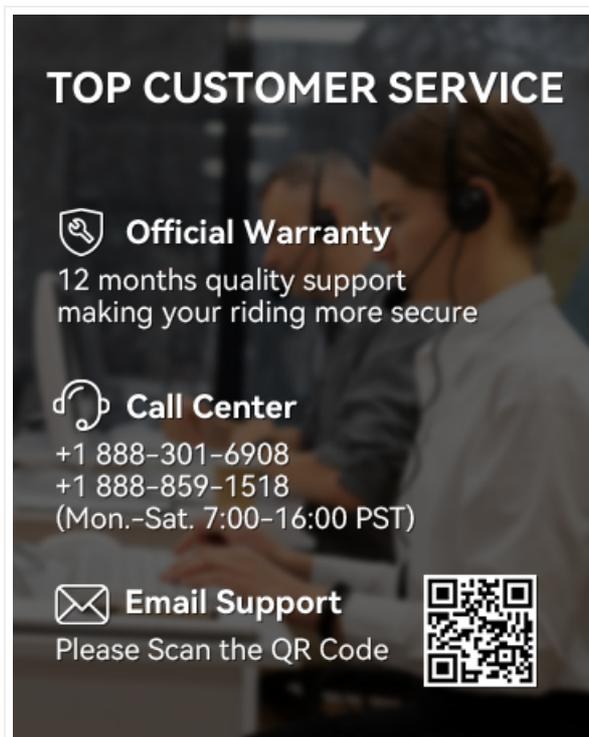


Figure 5.1: The removable 480WH lithium battery.

### Charging the Battery:

- **Charging Time:** A full charge typically takes 5-6 hours.
- **Charger:** Use only the original charger provided by Heybike.
- **Charging Location:** Charge the battery in a dry, well-ventilated area, away from flammable materials.
- **Overcharge Protection:** The battery is equipped with overcharge protection, but it is recommended to disconnect the charger once fully charged.
- **Charging Indicator:** The charger will typically have an indicator light (e.g., red for charging, green for fully charged).

### Battery Removal and Installation:

The battery is designed for easy removal, allowing for off-bike charging or secure storage.

1. **Removal:** Turn the key to unlock the battery, then carefully slide it out of its compartment.
2. **Installation:** Slide the battery back into the compartment until it clicks into place. Turn the key to lock it securely.

### Battery Care:

- Store the battery in a cool, dry place when not in use.
- Avoid fully discharging the battery regularly. Charge it after each ride or when the charge level is low.
- If storing for an extended period, charge the battery to approximately 50-70% and recharge every 2-3 months.

## 6. OPERATING YOUR E-BIKE

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Familiarize yourself with the controls and functions before riding.

### 6.1 Power On/Off

- **To Power On:** Press and hold the power button on the LCD display until the screen illuminates.
- **To Power Off:** Press and hold the power button again until the display turns off.

### 6.2 LCD Display Functions

The smart LCD display provides real-time riding data.



Figure 6.1: Detailed view of the LCD display showing speed, battery, and PAS level.

- **Battery Indicator:** Shows the current battery charge level.
- **Speed Display:** Shows current speed (MPH or KM/H).
- **Mileage:** Displays trip distance and total odometer.
- **PAS Level:** Indicates the current Pedal Assist System level (0-3).
- **Lighting Indicator:** Shows if the headlight is on.
- **Fault Alert:** Displays error codes if a system issue is detected.

### 6.3 Riding Modes

The Heybike YM1 offers four riding modes:

1. **Pedal Mode:** Ride like a traditional bicycle with no electric assistance.
2. **PAS (Pedal Assist System) Mode:** The motor provides assistance as you pedal. Select from levels 1 to 3, with higher levels offering more assistance.
3. **Pure Electric Mode:** Use the twist throttle to engage the motor without pedaling. The bike will move solely on electric power.
4. **PAS and Electric Combination Mode:** Combines pedal assistance with throttle control for extended range and reduced fatigue.



Figure 6.2: Illustration of the 3+1 riding modes and approximate range.

## 6.4 Gear Shifting

The 7-speed Shimano gear system allows you to adjust your pedaling effort to match terrain and speed.

- Use the trigger shifter on the handlebar to change gears.
- Shift to lower gears (larger cogs) for easier pedaling on inclines.
- Shift to higher gears (smaller cogs) for faster speeds on flat terrain.
- Always pedal lightly when shifting gears for smooth transitions.



Figure 6.3: Close-up of the 7-speed Shimano gear system and trigger shifter.

## 6.5 Braking System

The Heybike YM1 is equipped with efficient dual disc brakes for reliable stopping power.

- The left lever controls the front brake, and the right lever controls the rear brake (standard configuration).
- Apply both brakes simultaneously for optimal stopping performance and control.
- Avoid sudden, hard braking, especially the front brake, to prevent skidding or loss of control.

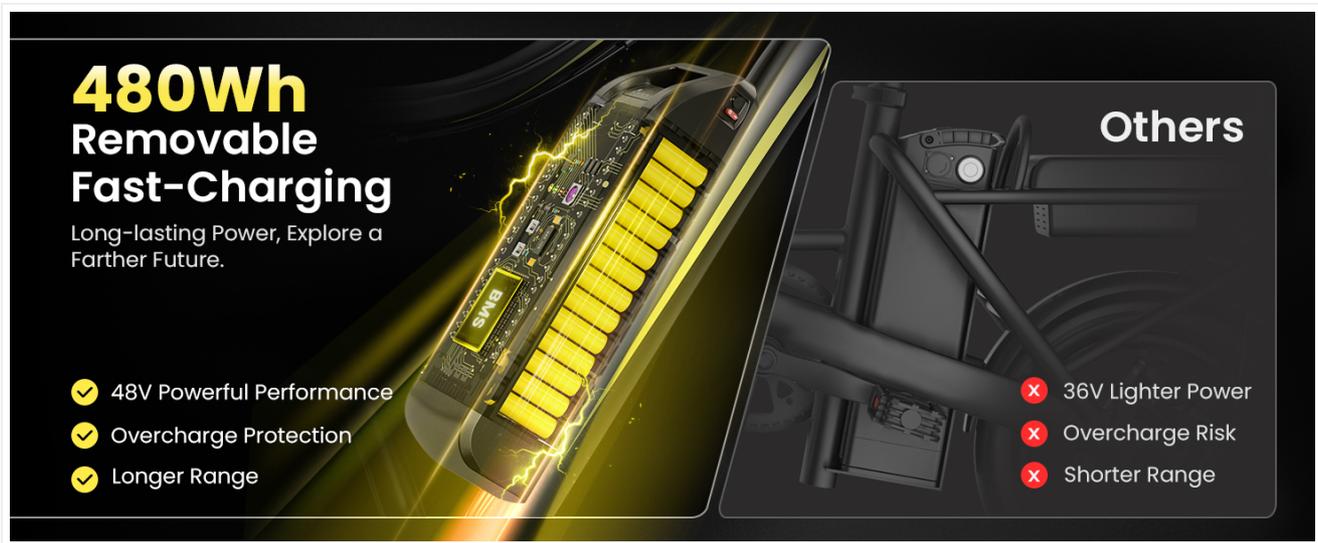


Figure 6.4: Illustration of the dual disc braking system.

## 7. MAINTENANCE & CARE

Regular maintenance ensures the longevity and safe operation of your electric bike.

- **Cleaning:** Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.
- **Tires:** Maintain recommended tire pressure (indicated on the tire sidewall). Check for punctures or excessive wear.
- **Brakes:** Inspect brake pads for wear and replace as needed. Ensure brake levers have proper tension and the brakes engage effectively.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.
- **Storage:** Store the bike in a dry, secure location, away from direct sunlight and extreme temperatures. Remove the battery if storing for extended periods.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Heybike YM1.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly installed; loose electrical connection.	Ensure battery is fully charged and securely locked in place. Check all visible cable connections.
Motor not assisting	PAS level set to 0; battery low; motor connection issue.	Increase PAS level on the display. Check battery charge. Contact support if issue persists.
Brakes feel weak	Worn brake pads; loose brake cable; air in hydraulic system (if applicable).	Inspect and replace brake pads. Adjust brake cable tension. For hydraulic issues, consult a bike mechanic.
Gears not shifting smoothly	Dirty or unlubricated chain; misaligned derailleur; bent hanger.	Clean and lubricate the chain. Adjust derailleur. If issues persist, consult a bike mechanic.
LCD display shows error code	System malfunction.	Refer to the specific error code in the full user manual (if available) or contact Heybike support with the code.

If you encounter an issue not listed here or cannot resolve a problem, please contact Heybike customer support.

## 9. TECHNICAL SPECIFICATIONS

Detailed specifications for the Heybike YM1 Electric Bike.

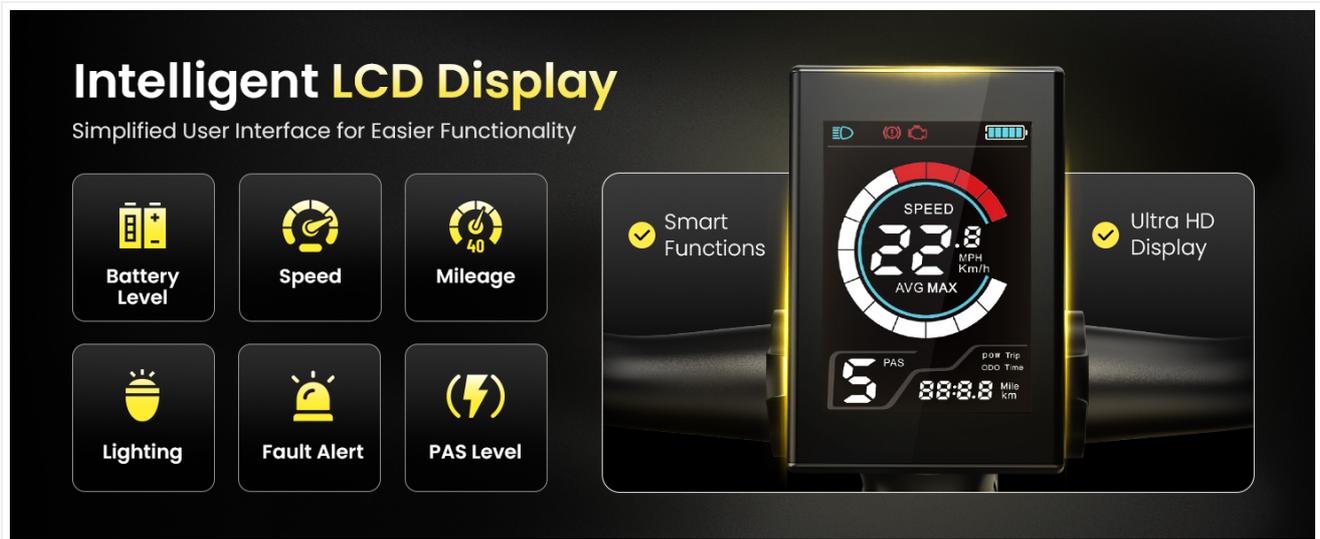


Figure 9.1: Heybike YM1 E-Bike dimensions.

Feature	Specification
Model Name	Heybike YM1
Bike Type	Electric Mountain Bike
Motor	1200W Peak Brushless Motor
Max Speed	Up to 28 MPH
Battery	48V 10Ah (480WH) Removable Lithium-ion
Range per Charge	31-50 Miles (depending on mode and terrain)
Charging Time	5-6 Hours
Wheel Size	27.5 Inches
Tires	Puncture-resistant
Gears	7-Speed Shimano
Brakes	Dual Disc Brakes
Suspension	Front Suspension Fork
Frame Material	Aluminum
Load Capacity	330 lbs (150 kg)
Bicycle Weight	57.3 lbs (26 kg)
Recommended Rider Height	5'4" - 6'4"

## 10. WARRANTY & SUPPORT

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Heybike provides comprehensive support for your electric bike.

### Warranty Information:

Your Heybike YM1 Electric Bike comes with a **12-month limited warranty** covering manufacturing defects. Please retain your proof of purchase for warranty claims. The warranty does not cover normal wear and tear, misuse, accidents, or unauthorized modifications.

### Customer Support:

For any questions, technical assistance, or warranty claims, please contact Heybike customer support:

- **Phone Support:** +1 888-301-6908 or +1 888-859-1518 (Monday-Saturday, 7:00-16:00 PST)
- **Email Support:** [support@heybike.com](mailto:support@heybike.com)



Figure 10.1: Heybike customer support team ready to assist.

## 11. PRODUCT VIDEO

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Watch the official product video for an in-depth look at the Heybike YM1 Electric Bike.

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Video 11.1: Official Heybike YM1 Electric Bike overview. This video demonstrates the features and functionality of the bike.