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## Heybike Ranger S

# Heybike Ranger S Electric Bike Instruction Manual

Model: Ranger S | Brand: Heybike

## 1. INTRODUCTION

Welcome to the Heybike Ranger S Electric Bike user manual. This guide provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new electric bicycle. The Heybike Ranger S is designed for both daily commutes and adventurous rides, offering a blend of power, convenience, and smart technology.

Equipped with a 1400W peak brushless motor, a 720Wh removable battery, and 20-inch by 4.0-inch fat tires, this e-bike delivers robust performance and a comfortable ride across various terrains. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

## 2. SAFETY GUIDELINES

Your safety is paramount. Adhere to the following guidelines:

- **Always wear a helmet:** Ensure your helmet meets safety standards and is properly fitted.
- **Pre-ride inspection:** Before each ride, check tire pressure, brake functionality, battery charge, and ensure all quick releases and fasteners are secure.
- **Understand local laws:** Familiarize yourself with local regulations regarding electric bicycles, including speed limits and helmet requirements.
- **Ride defensively:** Be aware of your surroundings, anticipate potential hazards, and use hand signals for turns and stops.
- **Avoid riding in adverse conditions:** Extreme weather, poor visibility, or slippery surfaces can compromise safety.
- **Do not exceed weight limits:** The maximum load capacity for the Heybike Ranger S is 400 lbs.
- **Secure the battery:** Always ensure the battery is properly locked in place before riding.

## 3. SETUP & ASSEMBLY

The Heybike Ranger S comes partially assembled. Follow these steps to complete the setup:

### 3.1 Unboxing and Component Identification

Carefully remove the bike and all components from the packaging. Verify all parts are present according to the packing list

in your user manual.

#### Video: Heybike Ranger S Electric Bike Assembly Guide

This video provides a step-by-step guide on how to properly assemble your Heybike Ranger S ebike.

### 3.2 Front Wheel Installation

1. Locate the front fork and remove the protective stud bolts.
2. Remove the black retainer from the brake caliper.
3. Take the front wheel and insert one of the stud bolts through the center shaft from the brake disc side. Tighten slightly with a gear wrench.
4. Carefully position the front wheel between the forks and slide the sub bolts into the threaded part of the fork dropouts.
5. Use a gear wrench to tighten the stud bolts securely.
6. Cover the screws on both sides of the front wheel with the provided screw covers.

### 3.3 Handlebar Assembly

1. Locate the head parts, loosen the fastening screw, and remove the washer.
2. Place the handlebar onto the head parts and adjust the handlebar angle to ensure the bike is straight in line.
3. Open the quick-release lever.
4. Use a smaller Allen wrench to tighten the screws around the head parts.
5. Use an Allen wrench to tighten the screw and lock the quick-release lever.

### 3.4 Headlight & Front Fender Assembly

1. Locate the headlight stud bolts and attach the headlight and front fender.
2. Use a gear wrench and an Allen wrench to fasten the headlight and fenders above the front fork.
3. Connect the power cable of the headlight with the handlebar's cable. Also, connect the display cable to the handlebar's cable.
4. Loosen the two screws located on both sides of the front fork, align the coils of the two arms of the fender with the holes, then use an Allen wrench to tighten the screws.

### 3.5 Pedal Assembly

1. Locate the right/left side pedal. Each pedal should have a sticker with an 'R'/L' on it to indicate which side it belongs to.
2. Take the right pedal and gently thread it onto the right crank by hand, turning it clockwise. Be careful not to cross-thread the pedal. Once it is threaded correctly, use an Allen wrench to tighten the pedal securely. Repeat step 2 for the left pedal, threading it onto the left crank by hand and tightening it with an Allen wrench.
3. Check the chain alignment. Rotate the right pedal and crank toward the back of the bike as though pedaling backward. Watch the chain and ensure the chain runs through the drive train (the rear cog, chain tensioner, and around the front chainring) smoothly.

### 3.6 Seat Assembly

1. Open the clamp under the seat post and push the seat down.
2. Set it to a height that fits the rider, then use the clamp to secure the seat in place.

## 4. COMPONENTS OVERVIEW

The Heybike Ranger S is equipped with advanced features for a superior riding experience.

#### 4.1 Powerful Brushless Motor

## POWERFUL BRUSHLESS MOTOR



**28MPH**

MAX SPEED



**1400W**

PEAK MOTOR



**30°**

GRADEABILITY



**0-28MPH**

ONLY 5 S



Image: Powerful Brushless Motor

The Heybike Ranger S features a 750W brushless geared motor with a peak output of 1400W, capable of tackling steep 30-degree inclines and reaching speeds of 28+ MPH.

#### 4.2 Removable Large Battery

# REMOVABLE LARGE BATTERY

48V 14.4A ,Travel Farther, Explore More



**691WH**  
HIGH CAPACITY



**UL**  
CERTIFICATION



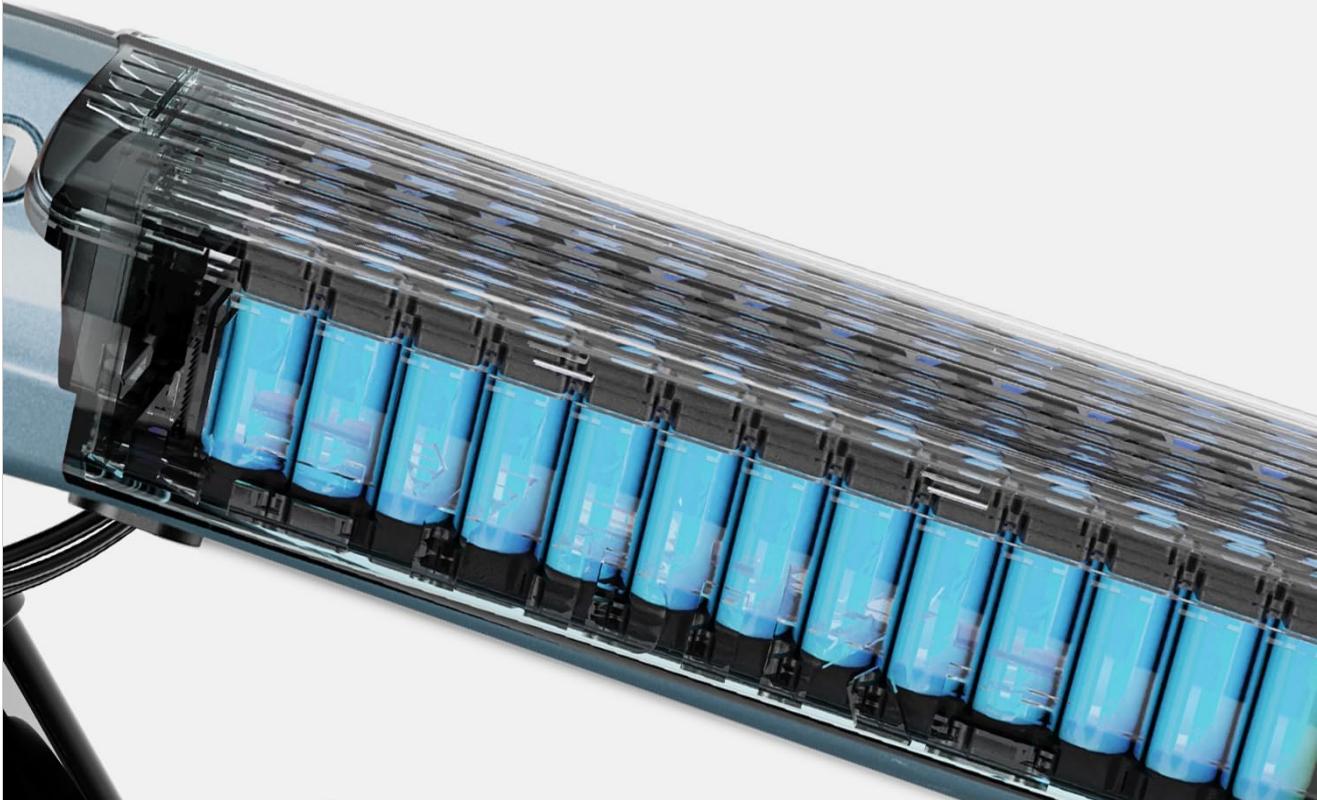
**3 HRS**  
FAST CHARGING



**55 Miles**  
MAX RANGE



**BMS**  
SAFETY & SAVING



**Image: Removable Large Battery**

A 720Wh (48V 14.4Ah) removable battery provides up to 55 miles of range on a single charge, with a fast charging time of 3-4 hours.

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**Video: How to remove the Heybike Ranger S Battery**

This video demonstrates the process of removing the battery from your Heybike Ranger S electric bike.

## 4.3 Dual Hydraulic Suspension & Brakes

## DUAL HYDRAULIC SUSPENSION

Absorbs shocks for smoother, safer riding

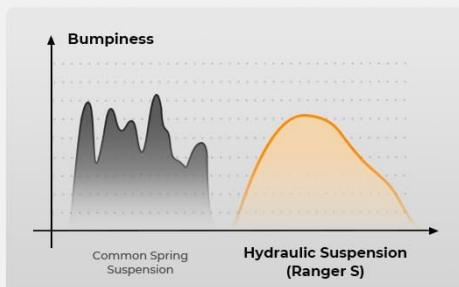
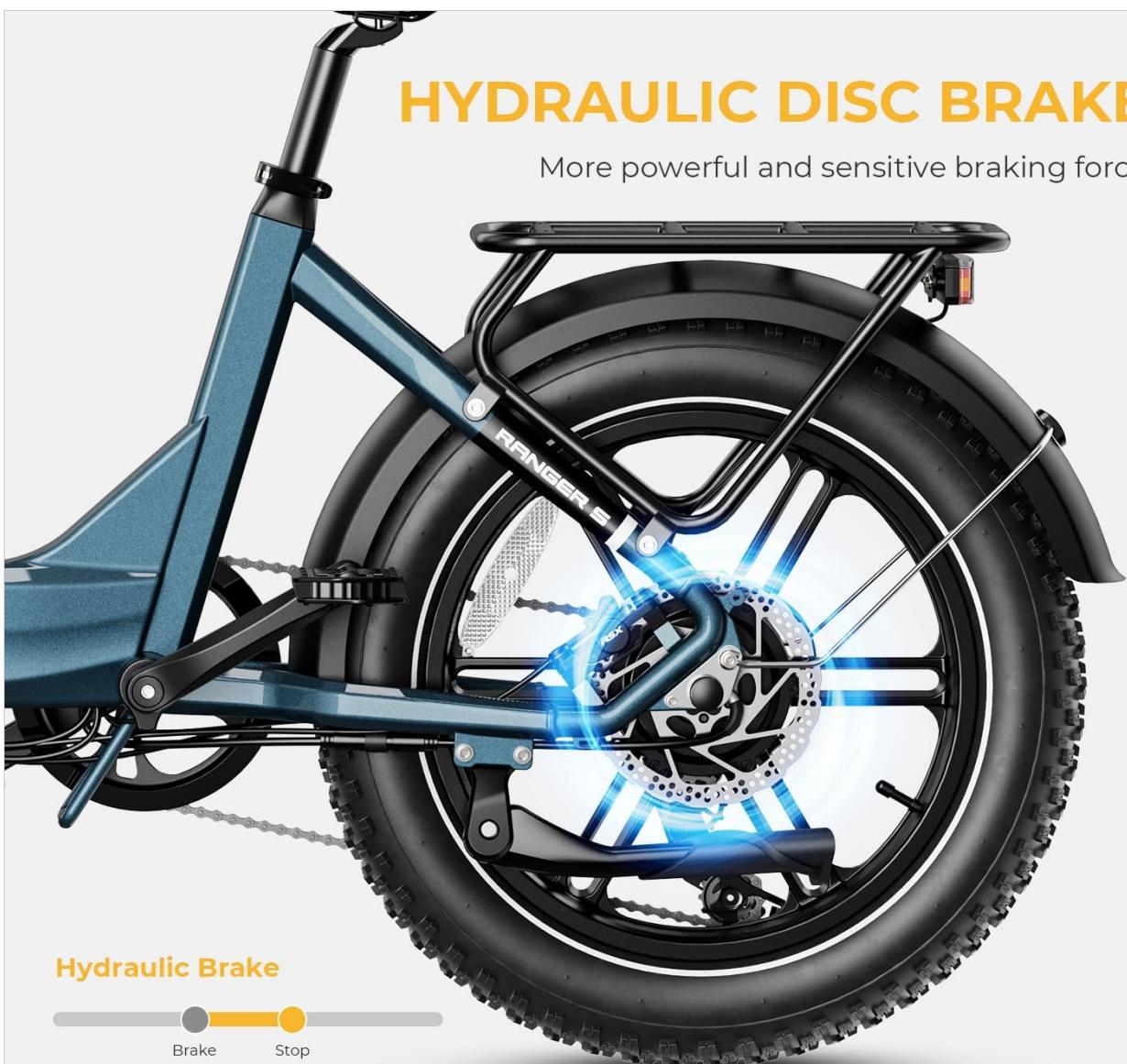


Image: Dual Hydraulic Suspension

The hydraulic front suspension absorbs shocks for a smoother, safer ride, enhancing stability on various terrains.

## HYDRAULIC DISC BRAKE

More powerful and sensitive braking force



### Hydraulic Brake



### Mechanical Brake



### Image: Hydraulic Disc Brake

Advanced hydraulic disc brakes provide powerful and sensitive stopping force in all weather conditions, ensuring superior control and reliability.

## 4.4 Foldable and Step-Thru Design

# FOLDABLE DESIGN

Save space and go anywhere you want



## Image: Foldable Design

The convenient foldable design allows for easy storage in car trunks, garages, or RVs, ideal for limited spaces or transport.

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## Video: Heybike Ranger S Folding Electric Bike

This video demonstrates the folding mechanism of the Heybike Ranger S electric bike for compact storage and transport.



**Image: Step-Thru Design**

The step-through frame design ensures easy mounting and dismounting, suitable for riders of all ages and mobility levels.

#### **4.5 Smart App Control**

# EASY APP CONTROL

Ride smarter and safer

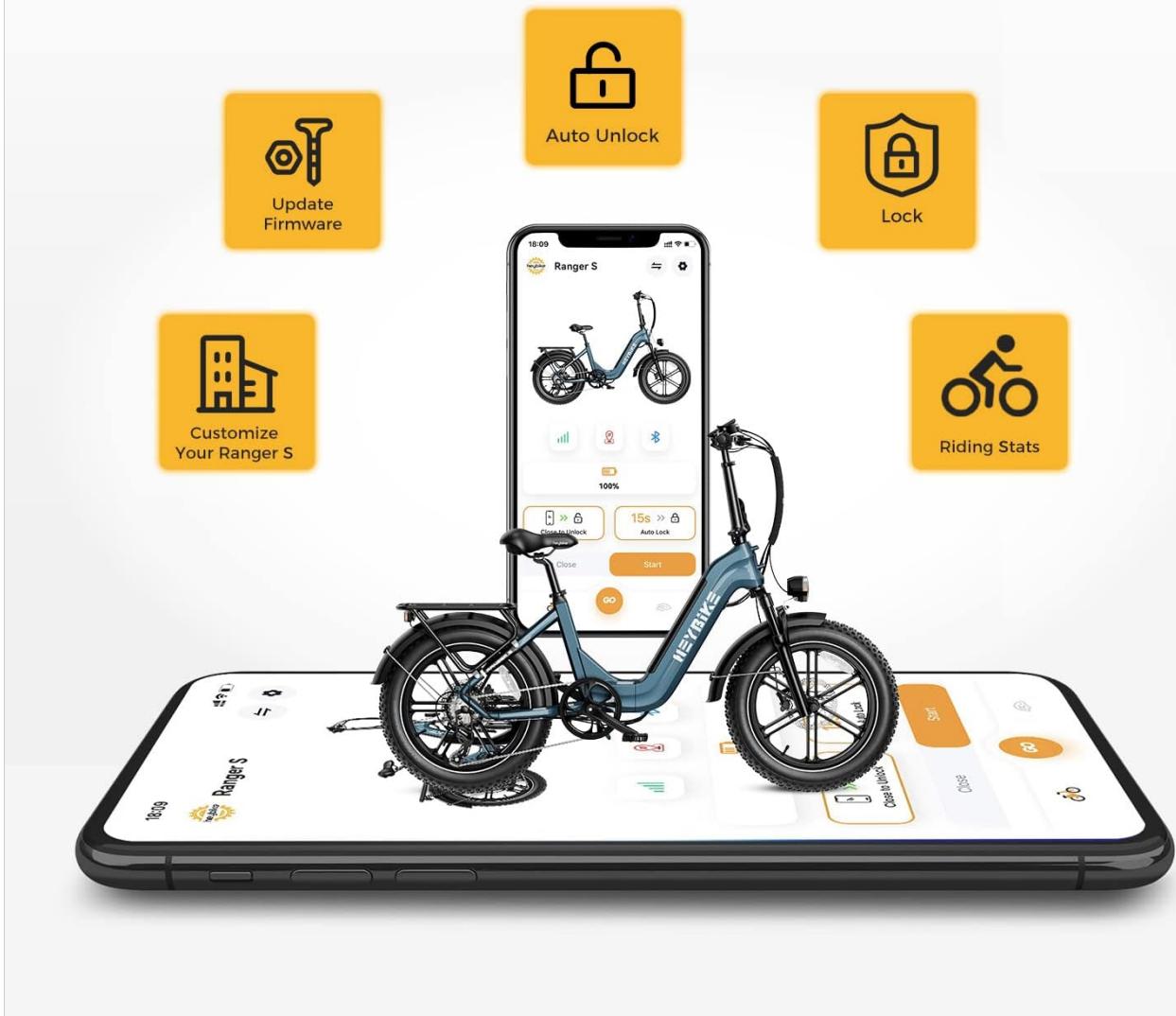


Image: Easy App Control

The Heybike app offers features like anti-theft protection, auto lock/unlock, and firmware updates for enhanced security and customization.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

Before riding, ensure the battery's power switch is turned ON. To turn the bike on or off, press and hold the power button on the handlebar display.

### 5.2 Display and Controls

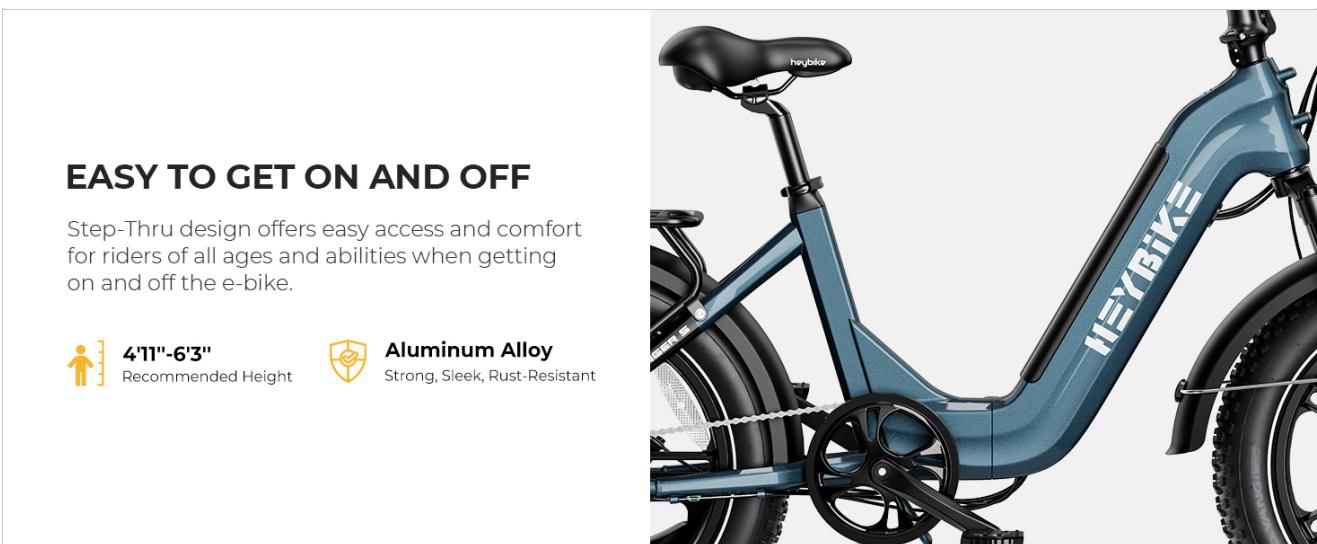


**Image: Handlebar Controls Overview**

The clear LCD display provides real-time information including speed, battery level, and Pedal Assist System (PAS) level.

- **PAS Levels:** Use the '+' and '-' buttons to adjust the pedal assist level (0-5). Level 0 provides no motor assistance.
- **Throttle:** The thumb throttle provides instant power without pedaling.
- **Headlight:** Press the headlight button to turn the front light on or off.
- **Turn Signals:** Use the turn signal control to activate the integrated turn signals for increased visibility.
- **Brakes:** The bike is equipped with hydraulic disc brakes for responsive stopping power.

## 5.3 Riding Modes



**Image: Power Your Ride, Your Way**

The Heybike Ranger S offers multiple riding modes to suit your preference and terrain.

- **Pure Electric Mode:** Use the throttle for motor power without pedaling.
- **Pedal Assist Mode:** The motor provides assistance as you pedal, with adjustable levels.
- **Manual Mode:** Ride the bike like a traditional bicycle without motor assistance.
- **Walk Mode:** Provides low-speed assistance for walking the bike.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Heybike Ranger S.

- **Tire Pressure:** Check tire pressure before each ride. Maintain recommended PSI for optimal performance and safety.

- **Brake Inspection:** Regularly inspect brake pads and rotors for wear. Ensure brake levers are responsive and provide adequate stopping power.
- **Chain Lubrication:** Keep the chain clean and lubricated to prevent rust and ensure smooth gear changes.
- **Fastener Checks:** Periodically check all bolts, nuts, and quick releases to ensure they are securely tightened.
- **Battery Care:** Store the battery in a cool, dry place and charge it regularly, even when not in use, to prolong its lifespan.
- **Cleaning:** Clean your e-bike with a damp cloth. Avoid high-pressure washing directly on electrical components.

## 7. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Bike does not power on	Battery switch off, low battery, loose connections	Ensure battery switch is ON, charge battery, check all cable connections.
Motor not assisting	PAS level 0, brake levers engaged, motor cable loose	Increase PAS level, ensure brake levers are fully released, check motor cable connection.
Brakes feel weak	Worn brake pads, air in hydraulic line, misaligned caliper	Inspect/replace brake pads, bleed hydraulic system (professional service recommended), adjust caliper alignment.
Unusual noises	Loose components, dry chain, rubbing parts	Check all fasteners, lubricate chain, identify and adjust rubbing components.

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

## 8. SPECIFICATIONS

Feature	Specification
Motor	750W Brushless Geared Hub Motor (1400W Peak)
Battery	720Wh (48V 14.4Ah) Removable Lithium-Ion
Max Speed	28+ MPH
Max Range	Up to 55 Miles per charge
Charging Time	3-4 Hours (with 48V/4A charger)
Tires	20" x 4.0" Fat Tires
Brakes	Hydraulic Disc Brakes (Front & Rear)
Frame Material	Aluminum Alloy
Frame Type	Foldable, Step-Thru
Suspension	Front Hydraulic Suspension
Gears	7-Speed Shimano Derailleur
Max Load Capacity	400 lbs

Feature	Specification
Recommended Rider Height	4'11" - 6'3"
Bike Weight	72 lbs
Special Features	APP Control, LCD Display, Integrated Lighting System (Headlight, Turn Signals, Brake Lights), Cargo Rack

## 9. WARRANTY & SUPPORT

For detailed warranty information, please refer to the warranty card included with your Heybike Ranger S or visit the official Heybike website. If you require technical assistance, spare parts, or have any questions, please contact Heybike customer support through their official channels. Keep your purchase receipt and serial number handy for faster service.