

# HOVER-1 H1-RCKET Hoverboard with LED Headlights Instruction Manual

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## HOVER-1 H1-RCKET Hoverboard with LED Headlights



## **WARNING**

PLEASE READ THE USER MANUAL THOROUGHLY.

Failure to follow the basic instructions and safety precautions listed in the user manual can lead to damage to your Rocket, other property damage, serious bodily injury, and even death. Thank you for purchasing the Hover-1 Rocket Electric Scooter. Please read all instructions carefully before using and retain this manual for future use and reference. This manual applies to the Rocket Electric Scooter.

- In order to avoid dangers that are caused by collisions, falls, and loss of control, please learn how to ride the Rocket safely.
- You can learn operating skills by reading the product manual and watching videos.
- This manual includes all operating instructions and precautions, and users must read it carefully and follow the instructions.
- Hover-1 can not be held liable for damage or injury caused by failure to understand and follow the warnings and instructions in this manual.

## **ATTENTION**

1. Use only the supplied charger with this scooter. Charger Manufacturer: Shenzhen Fuyuandian Power Co. Ltd  
Model: FY0184200400
2. The operating temperature range of the Rocket is 32-104° F (Q-400 C).
3. Do not ride on icy or slippery surfaces.
4. Read the user manual and warning labels before riding.
5. Store the Rocket in a dry, ventilated environment.
6. When transporting the Rocket, avoid violent crashes or impacts.

## **LOW TEMPERATURE WARNING**

Low temperature will affect the lubrication of moving parts inside the Rocket scooter, increasing internal resistance. At the same time, in low temperatures, the discharge capacity and the capacity itself of the battery will be significantly decreased. Use caution when riding the Rocket in cold temperatures (below 40 degrees F). Doing so may increase the risk of mechanical failures of the scooter, which may lead to damage to your Rocket, other property damage, serious bodily injury and even death.

## **SAFETY INSTRUCTIONS**

- Keep the Rocket away from heat sources, direct sunlight, humidity, water and any other liquids.
- Do not operate the Rocket if it has been exposed to water, moisture or any other liquids to prevent against electric shock, explosion and/or injury to yourself and damage to the Rocket.
- Do not use the Rocket if it has been dropped or damaged in any way.
- Repairs to electrical equipment should only be performed by the manufacturer. Improper repairs void the warranty and may place the user at serious risk.
- Do not puncture or harm the exterior surface of the product in any way.
- Keep the Rocket free from dust, lint, etc.
- Do not use this Rocket for anything other than its intended use or purpose. Doing so may damage the Rocket or lead to property damage, injury or death.
- This product is not a toy. Keep out of reach of children.
- Do not expose batteries, battery packs, or batteries installed to excessive heat, such as direct sunlight, or

open flame.

- Do not allow hands, feet, hair, body parts, clothing or similar articles to come in contact with moving parts, wheels or drivetrain, while the engine is running.
- Do not operate or allow others to operate the Rocket until the user understands all instructions, warnings and safety features described in this manual.
- Check with your doctor if you have a medical condition that could affect your ability to use the Rocket.
- Persons with head, back or neck ailments or prior surgeries to those areas of the body are not recommended to use the Rocket.
- Do not operate if you are pregnant, have a heart condition, or have both.
- Persons with any mental or physical conditions that may make them susceptible to injury or impair their physical or mental capabilities to recognize, understand and perform all of the safety instructions and to be able to assume the hazards inherent in unit use, should not use the Rocket.

#### **NOTES:**

In this manual, the above symbol with the word “NOTES” indicates instructions or relevant facts the user should remember prior to using the device.

#### **CAUTION!**

In this manual, the above symbol with the word “CAUTION” indicates a hazardous situation which, if not avoided, can cause minor or moderate injury.

#### **WARNING!**

In this manual, the above symbol with the word “WARNING” indicates a hazardous situation which, if not avoided, can cause death or serious injury.

#### **SERIAL NUMBER**

Please keep the serial number on file for warranty claims as well as proof of purchase.

#### **WARNING!**

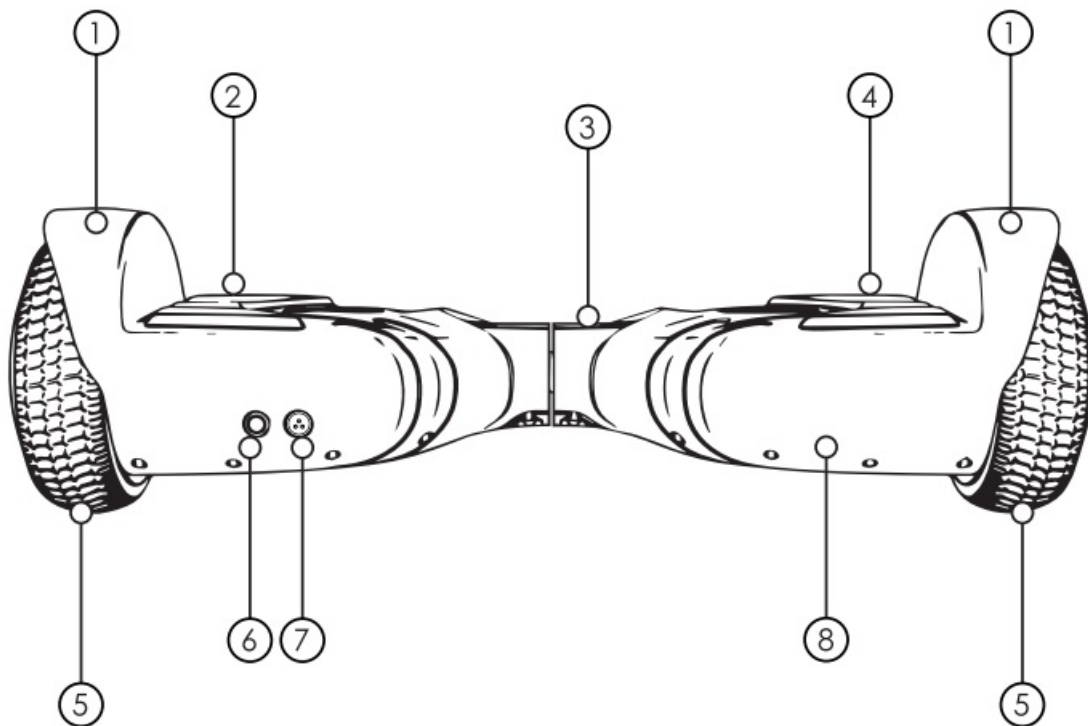
WARNING: Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials. Store Indoors When Not in Use.

## **INTRODUCTION**

The Hover-1 Rocket is a personal transporter. Our technology and production processes are developed with strict testing for each Rocket scooter. Operating the Rocket without following the contents of this manual may lead to damage to your Rocket or bodily injury. This manual is designed to give you the information you need for the safe operation and maintenance of your Rocket. Please read it thoroughly before riding your Rocket.

## **PACKAGE CONTENTS**

- Hover-1 Rocket Electric Scooter
- Wall Charger
- Operation Manual



## FEATURES/PARTS

1. Fender
2. Left Foot Mat
3. Battery Indicator
4. Right Foot Mat
5. Tire
6. Power Button
7. Charge Port
8. Protective Chassis Casing

## OPERATING PRINCIPALS

The Rocket uses digital electronic gyroscopes and acceleration sensors to control balance and motion, depending on the user's center of gravity. The Rocket also uses a control system to drive the motors that are located within the wheels. The Rocket has a built-in inertia dynamic stabilization system that can help assist with balance when moving forward and backwards, but not while turning.

**TIP** To increase your stability, you must shift your weight in order to overcome the centrifugal force during turns, especially when entering a turn at higher speeds.

## SPECIFICATIONS

Model:	Hover-1™ Rocket (H1-RCKT)
Net Weight:	13.6 lbs (6.2 kg)
Load:	44-160 lbs (20-72.5 kg)
Max Speed:	Up to 7 mph (11.3 km/h)
Max Distance Range:	Up to 3 miles (4.8 km)
Max Incline Angle:	10°
Minimum Turning Radius:	0°
Charge Time:	Up to 6 hours
Battery Type:	Lithium-ion
Battery Voltage:	36 V
Battery Capacity:	2.0Ah
Power Requirement:	AC 100-240V, 50/60Hz
Ground Clearance:	1.5 Inches (3.81 cm)
Platform Height:	4.5 Inches (11.43 cm)
Tire Type:	Non-Pneumatic Solid Tires

## CONTROLS AND DISPLAY

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

### TURNING YOUR DEVICE ON/OFF

**Power On:** Take your Rocket out of the box and place it flat on the floor. Press the power button (located on the rear of your Rocket) once. Check the LED indicator (located in the center of your Rocket). The battery indicator light should be lit, indicating the Rocket is powered on.

**Power Off:** Press the power button once.

### MAT SENSOR

There are four sensors under the foot mats on your Rocket. When riding the scooter, you must ensure you are stepping on the foot mats. Do not step or stand on any other area of your scooter. The Rocket may vibrate or spin in one direction, if weight and pressure are applied to only one foot mat.

### BATTERY INDICATOR

The display board is located in the middle of the Rocket.

- Green LED Light indicates the hoverboard is fully charged.
- Red flashing LED light and beeping indicates low battery.
- Yellow light indicates the board is charging.

### RUNNING INDICATOR

When the operator triggers the foot mats, the Running Indicator LED will light up, which means that the system enters the running state. When the system has an error during operation, the running LED light will turn red (for more details see SAFETY ALERTS).

## BEFORE RIDING

It is important that you fully understand all elements of your Rocket. If these elements are not used correctly, you will not have full control of your Rocket. Before you ride, learn the functions of the various mechanisms on your scooter. Practice using these elements of your Rocket at slower speeds in a flat, open area before taking the Rocket out in public areas.

## PRE-RIDE CHECKLIST

Ensure that your Rocket is in proper working order each and every time you ride. If a part of the scooter does not function correctly, please contact our Customer Support Center.

**WARNING** Any Rocket that does not work properly can cause you to lose control and fall. Do not ride a Rocket with a part that is damaged; replace the damaged part before riding.

- Ensure the battery is fully charged before riding your scooter.
- Ensure that the screws on the front and back tires are locked firmly before each ride.
- Please wear all appropriate safety and protective gear as previously mentioned in the User Manual before operating your Rocket.
- Make sure to wear comfortable clothes and flat closed-toe shoes when operating your Rocket.
- Please carefully read the User Manual, which will assist in explaining the basic working principles and provide tips on how to best enjoy your experience.

## SAFETY PRECAUTIONS

Different localities and countries have different laws governing riding on public roads, and you should check with local officials to ensure you are complying with these laws. Hover-1 is not liable for tickets or violations given to riders who do not follow local laws and regulations.

- For your safety, always wear a helmet that meets CPSC or CE safety standards. In the event of an accident, a helmet can protect you from serious injury and in some cases, even death.
- Obey all local traffic laws. Obey red and green lights, one-way streets, stop signs, pedestrian crosswalks, etc.
- Ride with traffic, not against it.
- Ride defensively; expect the unexpected.
- Give pedestrians the right-of-way.
- Do not ride too close to pedestrians and alert them if you intend to pass them from behind.
- Slow down at all street intersections and look to the left and right before crossing.

Your Rocket is not equipped with reflectors. It is not recommended that you ride in conditions of low visibility.

### WARNING

When you ride in low-visibility conditions such as fog, dusk, or night, you might be difficult to see, which could lead to a collision. In addition to keeping your headlight on, wear bright, reflective clothing when riding in poor lighting conditions.

Think about safety when you ride. You can prevent many accidents if you think about safety. Below is a helpful checklist for Compact riders.

## SAFETY CHECKLIST

- Do not ride above your skill level. Ensure you have had enough practice with all functions and features of your Rocket.
- Before stepping on your Rocket, make sure it is placed flat on level ground, the power is on, and the Running Indicator light is green. Do not step on if the Running Indicator light is red.
- Do not try to open or modify your Rocket. Doing so, voids the manufacturer warranty and may cause your Rocket to fail, resulting in injury or death.
- Do not use the Rocket in a manner that would put people or property in danger.

- If riding near others, keep a safe distance to avoid collision.
- Be sure to keep your feet on the pedals at all times. Moving your feet off your Rocket while driving is dangerous and may cause the Rocket to stop or veer sideways.
- Do not operate the Rocket while under the influence of drugs and/or alcohol.
- Do not operate the Rocket when you are restless or sleepy.
- Do not ride your Rocket off of curbs, ramps, or attempt to operate in a skate park, empty pool, or in any way similar to a skateboard or scooter. The Rocket IS NOT A SKATEBOARD. Misuse of your Rocket, voids the manufacturer warranty and may lead to injury or damage.
- Do not continuously spin in place, it will cause dizziness and increases risk of injury.
- Do not abuse your Rocket, doing so can damage your unit and cause failure to the operating system leading to injury. Physical abuse, including dropping your Rocket, voids the manufacturer warranty.
- Do not operate in or near puddles of water, mud, sand, stones, gravel, debris or near rough and rugged terrain.
- The Rocket can be used on paved surfaces that are flat and even. If you encounter uneven pavement, please lift your Rocket over and past the obstruction.
- Do not ride in inclement weather: snow, rain, hail, sleet, on icy roads or in extreme heat or cold.
- Bend your knees when riding on bumpy or uneven pavement to absorb the shock and vibration and help you keep your balance.
- If you are unsure if you can safely ride on a specific terrain, step off and carry your Rocket. ALWAYS BE ON THE SIDE OF CAUTION.
- Do not attempt to ride over bumps or objects greater than ½ in. even when prepared and bending your knees.
- PAY ATTENTION – look at where you are riding and be conscious of the road conditions, people, places, property and objects around you.
- Do not operate the Rocket in crowded areas.
- Operate your Rocket with extreme caution when indoors, especially around people, property, and narrow spaces.
- Do not operate the Rocket while talking, texting, or looking at your phone.
- Do not ride your Rocket where it is not permitted.
- Do not ride your Rocket near motor vehicles or on public roads.
- Do not travel up or down steep hills.
- The Rocket is intended for use by a single individual. DO NOT attempt to operate the Rocket with two or more people.
- Do not carry anything while riding the Rocket.
- Individuals with lack of balance should not attempt to operate the Rocket.
- Pregnant women should not operate the Rocket.
- The Rocket is recommended for riders ages 8 and older.
- At higher speeds, always take into consideration longer stopping distances.
- Do not step forward off of your Rocket.
- Do not attempt to jump on or off your Rocket.
- Do not attempt any stunts or tricks with your Rocket.
- Do not ride the Rocket in dark or poorly lit areas.
- Do not ride the Rocket off-road, near or over potholes, cracks or uneven pavement or surfaces.
- Keep in mind that you are 4.5 inches ( 11.43 cm) taller when operating the Rocket. Make sure to go through

doorways safely.

- Do not turn sharply, especially at high speeds.
- Do not step on the fenders of the Rocket.
- A void driving the Rocket in unsafe places, including near areas with flammable gas, steam, liquid, dust or fiber, which could cause fire and explosion accidents.
- Do not operate near swimming pools or other bodies of water.

### **WARNING**

When a hoverboard and a kart (sold separately) are being used, it is NOT ADVISABLE to ride the combo uphill. If using on a steep incline above Er 1 CJ', a safety mechanism built into the hoverboard will activate, which will shut down your hoverboard automatically. If this happens, dismount your hoverboard, place it on a flat surface, wait 2 minutes, and then power your hoverboard on again.

### **WARNING:**

To reduce the risk of injury, adult supervision is required. Never use in roadways, near motor vehicles, on or near steep inclines or steps, swimming pools or other bodies of water; always wear shoes, and never allow more than one rider.

## **RIDING YOUR ROCKET**

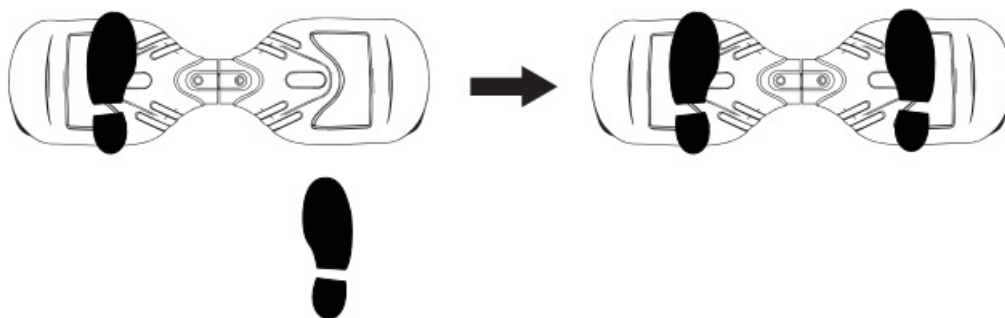
FAILURE TO FOLLOW ANY OF THE FOLLOWING SAFETY PRECAUTIONS CAN AND MAY LEAD TO DAMAGE TO YOUR ROCKET, VOID YOUR MANUFACTURER'S WARRANTY, LEAD TO PROPERTY DAMAGE, CAUSE SERIOUS BODILY INJURY, AND CAN LEAD TO DEATH.

Before using your Rocket, be sure to familiarize yourself with the operating procedures.

### **OPERATING YOUR ROCKET**

Make sure the Rocket is fully charged before initial use. For charging instructions, please follow details under CHARGING YOUR ROCKET.

Stand directly behind your Rocket and place one foot on the corresponding foot mat (as described in the diagram below). Keep your weight on the foot which is still on the ground, otherwise the Rocket may begin to move or vibrate, making it difficult to step on evenly with your other foot. When you are ready, shift your weight to the foot already placed on the Rocket and step on with your second foot quickly and evenly (as described in the diagram below).



Find your center of gravity. If your weight is distributed correctly on the foot mats and your center of gravity is level, you should be able to stand on your Rocket just as if you were standing on the ground. On average, it takes 3-5 minutes just to get comfortable standing on your Rocket and maintaining proper balance. Having a spotter will help you feel more secure. The Rocket is an incredibly intuitive device; it senses even the slightest bit of motion, so having any anxiety or reservation about stepping on may cause you to panic and trigger unwanted movement. When you first begin using your Rocket, the fastest way to move in your desired direction is to focus in that direction. You will notice that just thinking about which way you would like to go will shift your center of gravity, and that subtle movement will propel you in that direction. Your center of gravity determines which direction you move, accelerate, decelerate, and come to a complete stop. As described in the diagram below, tilt your center of gravity in the direction you wish to move. To turn, focus on the direction you wish to turn and stay relaxed.

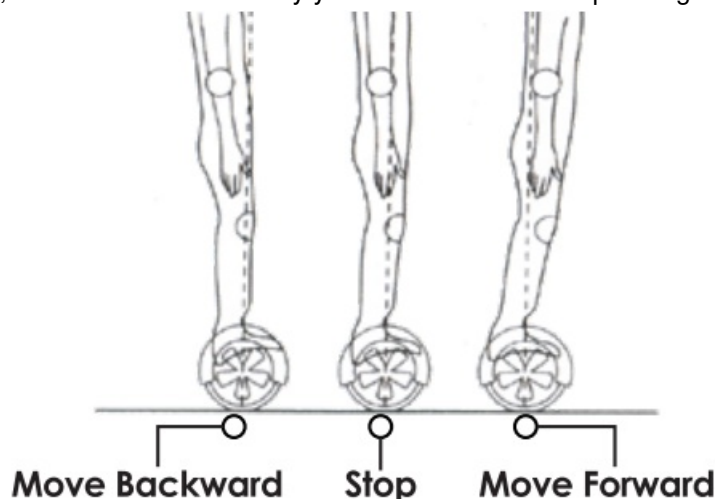
### **WARNING**

Do not turn sharply or at high speeds to avoid danger. Do not turn or ride quickly along slopes, as it may cause

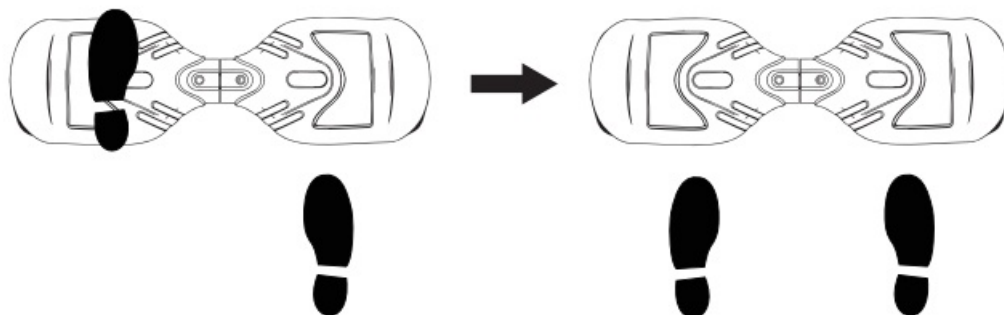


injury.

As you get comfortable on the Rocket, you will notice it becomes easier to maneuver. Remember at higher speeds, it is necessary to shift your weight to overcome the centrifugal force. Bend your knees if you encounter bumps or uneven surfaces, then dismount and carry your Rocket to a safe operating surface.



Dismounting your Rocket can be one of the easiest steps, yet when done incorrectly, may cause you to fall. To properly dismount, from a stopped position, lift one leg up and set your foot back down on the ground (STEPPING BACK). Then step off completely as described in the following diagram .



### WEIGHT AND SPEED LIMITATIONS

Speed and weight limits are set for your own safety. Please do not exceed the limits listed here in the manual.

- Maximum Weight: 160 lbs
- Minimum Weight: 44 lbs
- Maximum Speed: Up to 7 mph

### WARNING

Overweight exertion on the Rocket may increase possibility of injury or product damage.

### NOTES:

To prevent injury, when max speed is reached, the Rocket will beep to alert the user and tilt the rider slowly back.

### OPERATING RANGE

The Rocket can travel a distance up to 3 miles on a fully charged battery in ideal conditions. The following are some of the major factors that will affect the operating range of your Rocket.

- Terrain: Riding distance is highest when riding on a smooth, flat surface. Riding uphill and/or on rough terrain will reduce distance significantly.
- Weight: A lighter user will have further range than a heavier user.
- Ambient temperature: Please ride and store the Rocket under recommended temperatures, which will

increase riding distance, battery life, and overall performance of your Rocket.

- Speed and Riding Style: Maintaining a moderate and consistent speed while riding produces maximum distance. Traveling at high speeds for extended periods, frequent starts and stops, idling and frequent acceleration or deceleration will decrease overall distance.

## **BALANCE & CALIBRATION**

If your Rocket is unbalanced, vibrating, or not turning properly, you can follow the below steps to calibrate it.

- First, place the Rocket on a flat, horizontal surface such as the floor or a table. The foot mats should be even with each other and not tilted forward or backward. Make sure the charger is not plugged in and the board is turned off.
- Press and hold the ON/OFF button for a total of 15 seconds. The scooter will turn on, lighting the battery indicator on the board.
- After the light flashes 5 times consecutively you may release the ON/OFF button.
- Turn the board off and then turn the board back on. Calibration will now be completed.

## **SAFETY ALERTS**

While riding your Rocket, if there is a system error or improper operation performed, the Rocket will prompt the user in a variety of ways. You will notice the Running Indicator Light will turn RED and you will hear a beep sound alerting you to take precautions and cease operation, which may make the device stop suddenly. The following are common occurrences where you will hear the Safety Alerts. These notices should not be ignored, but appropriate action should be taken to correct any illegal operation, failure or errors.

- Unsafe riding surfaces {uneven, too steep, unsafe, etc.}
- When you step on the Rocket, if the platform is tilted more than 10 degrees forward or backward.
- Battery voltage is too low.
- The Rocket is still charging.
- During operation, the platform self initiates to tilt due to excess speed.
- Overheating, or motor temperature is too high.
- The Rocket has been rocking back and forth for over 30 seconds.
- If the system enters protection mode, the alarm indicator will light up and the board will vibrate. This typically occurs when the battery is about to run out of power.
- If the platform is tilted forward or backward more than 10 degrees, your Rocket will power off and stop suddenly, possibly causing the rider to lose balance or fall off.
- If any or both tires are blocked, the Rocket will stop after 2 seconds.
- When the battery level has depleted below protection mode, the Rocket engine will power off and stop after 15 seconds.
- While sustaining a high discharge current during use (such as driving up a steep slope for a long period of time), the Rocket engine will power off and stop after 15 seconds.

## **WARNING**

When the Rocket turns off during a Safety Alert, all operating systems will halt. Do not continue attempting to ride the Rocket when the system initiates a stop. Turn your Rocket off and back on to unlock it from a Safety Lock.

## CHARGING YOUR ROCKET

- Ensure that the charging port is clean and dry.
- Make sure that there is no dust, debris or dirt inside the port.
- Plug the charger into a grounded wall outlet. The charging indicator light ON THE CHARGER will be green.
- Connect the cable with the power supply (100V ~ 240V; 50/60 Hz).
- Align and connect the 3-pin charging cable into the charging port of the Rocket. DO NOT FORCE THE CHARGER INTO THE CHARGE PORT, AS THIS MAY CAUSE THE PRONGS TO BREAK OFF OR PERMANENT DAMAGE TO THE CHARGE PORT.
- Once attached to the board, the charging indicator light ON THE CHARGER should change to RED, indicating that your device is now being charged.
- When the RED indicator light on your charger turns to GREEN, then your Rocket is fully charged.
- A full charge may take up to 6 hours. While charging, you will see a yellow flashing light on the scooter, which also indicates charging. Do not charge for more than 7.5 hours.
- After fully charging your Rocket, unplug the charger from your Rocket and from the power outlet.

## BATTERY CARE/ MAINTENANCE

### BATTERY SPECIFICATIONS

**Battery Type:** Rechargeable lithium-ion battery

**Charge Time:** Up to 6 hours

**Voltage:** 36V

**Initial Capacity:** 2.0 Ah

### BATTERY MAINTENANCE

The lithium-ion battery is built into the Rocket. Do not disassemble the Rocket to remove the battery or attempt to separate it from the Rocket.

- Use only the charger and charging cable supplied by Hover-1. Use of any other charger or cable may lead to damage to the product, overheating and risk of fire. Use of any other charger or cable voids the manufacturer warranty.
- Do not connect or attach the Rocket or the battery to a power supply plug or directly to a car's cigarette lighter.
- Do not place the Rocket or batteries near a fire, or into direct sunlight. Heating the Rocket and/or the battery can cause additional heating, breaking, or ignition of the battery inside the Rocket.
- Do not continue charging the battery if it does not recharge within the specified charging time. Doing so may cause the battery to become hot, rupture, or ignite.

To preserve natural resources, please recycle or dispose of batteries properly. This product contains lithium-ion batteries. Local, state, or federal laws may prohibit disposal of lithium-ion batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.

- Do not attempt to modify, change, or replace your battery.
- Use only the charger and charging cable supplied by Hover-1.

Use of any other charger or cable may lead to damage to the product, overheating and risk of fire. Use of any other charger or cable voids the manufacturer's warranty.

- Do not use your Rocket if the battery begins to emit odor, overheats, or begins to leak.
- Do not touch any leaking materials or breathe fumes emitted.
- Do not allow children and animals to touch the battery.

- The battery contains dangerous substances, do not open the battery, or insert anything into the battery.
- Only use the charger provided by Hover-1.
- Do not attempt to charge the Rocket if the battery has discharged or emits any substances. In that case, immediately distance yourself from the battery in case of fire or explosion.
- Lithium-ion batteries are considered to be hazardous materials. Please follow all local, state and federal laws in regards to recycling, handling and disposing of Lithium-ion batteries.
- Do not expose the Rocket to liquid, moisture, or humidity to avoid damage to the product's internal circuitry.
- Do not use abrasive cleaning solvents to clean the Rocket.
- Do not expose the Rocket to extremely high or low temperatures as this will shorten the life of the electronic components, destroy the battery, and/or distort certain plastic parts.
- Do not dispose of the Rocket in fire as it may explode or combust.
- Do not expose the Rocket to contact with sharp objects as this will cause scratches and damage.
- Do not allow the Rocket fall from high places, as doing so may damage the internal circuitry.
- Do not attempt to disassemble the Rocket.
- Use only the charger provided by Hover-1.

### **WARNING**

Avoid using water or other liquids for cleaning. If water or other liquids enter the Rocket, it will cause permanent damage to the internal components.

### **WARNING**

Users who disassemble the Rocket scooter without permission will void the warranty.

### **WARRANTY**

For warranty information, please visit us at: [www.hover-1.com](http://www.hover-1.com)

### **Documents / Resources**



[HOVER-1 H1-RCKT Hoverboard with LED Headlights](#) [pdf] Instruction Manual  
H1-RCKT Hoverboard with LED Headlights, Hoverboard with LED Headlights, LED Headlights, Headlights