LiTHELi U20LM02-0A220+2BY

Litheli 18" 2x20V Electric Lawn Mower User Manual

Brand: LiTHELi | **Model:** U20LM02-0A220+2BY

1. User Guide Overview

This manual provides essential information for the safe and efficient operation, assembly, maintenance, and troubleshooting of your Litheli 18\" 2x20V Electric Lawn Mower. Please read this manual thoroughly before initial use and retain it for future reference.



Figure 1: Litheli 18\" 2x20V Electric Lawn Mower with included 4x4.0Ah batteries. This image displays the overall design of the mower, highlighting its compact and modern appearance.

2. Safety Instructions

Always prioritize safety when operating power tools. Failure to follow these instructions may result in serious injury or property damage.

- **Read the Manual:** Familiarize yourself with all controls and proper use before operation.
- **Personal Protective Equipment (PPE):** Always wear appropriate eye protection, hearing protection, and sturdy footwear. Long pants are recommended.
- **Clear the Area:** Before mowing, clear the area of objects such as rocks, sticks, wires, and toys that could be thrown by the blade.
- **Keep Bystanders Away:** Ensure children, pets, and other people are at a safe distance (at least 50 feet) from the mowing area.
- **Inspect Before Use:** Check the mower for any loose parts, damage, or wear before each use. Ensure the blade is securely fastened.
- **Battery Safety:** Only use Litheli-approved batteries and chargers. Do not expose batteries to water or extreme temperatures. Remove batteries when not in use or during maintenance.
- **Avoid Wet Grass:** Do not operate the mower in wet grass, as this can cause slipping and reduce cutting

efficiency.

- **Slope Operation:** Exercise extreme caution when mowing on slopes. Mow across the face of slopes, never up and down. Avoid excessively steep slopes.
- **Maintenance:** Disconnect the battery before performing any maintenance, cleaning, or when clearing a clogged chute.
- **Storage:** Store the mower in a dry, secure location out of reach of children.

3. Package Contents

Verify that all items are present upon unpacking:

- Litheli 18\" Electric Lawn Mower Unit
- Upper Handle Assembly
- Lower Handle Assembly
- Grass Collection Bag (10.57 Gallon / 8 Gallon capacity)
- 4 x 4.0Ah 20V Batteries (U20 4.0Ah / 20000mAh)
- Charging Cable (USB-C)
- User Manual

4. Assembly

The Litheli lawn mower is designed for quick and easy assembly. Follow these steps:

1. **Attach Lower Handle:** Secure the lower handle assembly to the main mower unit using the provided fasteners.
2. **Attach Upper Handle:** Connect the upper handle assembly to the lower handle. Ensure all locking mechanisms are engaged.
3. **Install Grass Collection Bag:** Hook the grass collection bag onto the rear discharge chute of the mower. Ensure it is securely attached to prevent grass clippings from escaping.

5. Setup

5.1 Battery Charging and Installation

Your Litheli lawn mower is powered by two 20V 4.0Ah batteries. For optimal performance, ensure batteries are fully charged before use. Note that the charger is not included with this model.

- **Charging:** Connect the provided USB-C charging cable to the battery's Type-C port. Use a compatible USB power adapter (not included). The batteries feature a 20000mAh capacity and support fast charging.
- **Installation:** Open the battery compartment cover on the top of the mower. Insert the two charged batteries into their respective slots. Ensure they click securely into place. The mower requires both batteries to operate.
- **Removal:** To remove batteries, press the release button next to each battery and lift them out.



Figure 2: The battery compartment showing two 20V 4.0Ah batteries. These batteries provide up to 80 minutes of operating time and can be fully charged in approximately 240 minutes.

5.2 Height Adjustment

The mower features a 6-position height adjustment lever, allowing you to select cutting heights from 0.98 inches to 2.95 inches. Adjust the height according to your lawn's condition and desired grass length.

- Locate the height adjustment lever on the side of the mower deck.
- Pull the lever outwards and move it forward or backward to select the desired cutting height.
- Release the lever to lock it into position. Ensure all wheels are at the same height setting.



Figure 3: Close-up of the 6-position height adjustment lever. This feature allows for precise control over grass cutting length, ranging from 0.98 inches to 2.95 inches.

6. Operating Instructions

Before starting, ensure the grass collection bag is properly attached and the cutting height is set.

1. **Starting the Mower:**
    - Press and hold the safety button on the handle.
    - While holding the safety button, pull the bail switch lever towards the handle. The mower will start.
    - Release the safety button once the mower is running.
2. **Stopping the Mower:** Release the bail switch lever. The blade will stop rotating.
3. **Mowing Technique:**
    - Push the mower at a steady, comfortable pace.
    - Overlap cutting swaths slightly to ensure even coverage.
    - For best results, avoid cutting more than one-third of the grass blade length at a time.

4. **Grass Collection:** The 10.57-gallon grass collection bag efficiently gathers clippings, reducing the need for frequent emptying. Monitor the bag and empty it when full to maintain optimal performance.



Figure 4: The 18-inch cutting deck of the Litheli lawn mower. This wider cutting path allows for more efficient mowing, saving approximately 30% more time compared to 16-inch models.



Figure 5: The 8-gallon grass collection bag being emptied. Its generous capacity minimizes interruptions during mowing.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your lawn mower.

- **Blade Care:** The mower features a high manganese steel blade designed for durability and a 3x longer lifespan. Regularly inspect the blade for sharpness and damage. Sharpen or replace as needed. *Always disconnect batteries before inspecting or servicing the blade.*



Figure 6: The durable high manganese steel blade, engineered for extended sharpness and longevity.

- **Cleaning:** After each use, clean the mower deck and grass collection bag. Remove any accumulated grass clippings and debris. Do not use water directly on electrical components.
- **Storage:** The mower is lightweight (42.33 pounds) and features a tool-free, space-saving foldable design for easy storage. Fold the handle down and store in a dry, protected area.



Figure 7: The mower in its folded position, demonstrating its compact design for easy storage. Dimensions are reduced from 43.31\" height to 18.1\" height.

8. Troubleshooting

If you encounter issues with your Litheli lawn mower, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Mower does not start	Batteries not installed correctly or discharged. Safety button/bail switch not engaged.	Ensure batteries are fully charged and properly seated. Fully engage both the safety button and bail switch.
Poor cutting performance	Dull blade. Grass bag full. Cutting height too low for grass type.	Sharpen or replace blade. Empty grass bag. Adjust cutting height higher.
Excessive vibration	Damaged or unbalanced blade. Loose components.	Inspect blade for damage; replace if necessary. Check all fasteners for tightness.

Problem	Possible Cause	Solution
Motor stops during operation	Overload due to thick grass. Discharged batteries.	Raise cutting height or reduce mowing speed. Recharge batteries.

For issues not listed here, please contact Litheli customer support.

9. Specifications

Feature	Specification
Brand	LiTHELi
Model Number	U20LM02-0A220+2BY
Power Source	Battery Powered (2x20V)
Motor Type	Brushless Motor
Cutting Width	18 Inches
Cutting Height Positions	6 Positions
Min. Adjustable Cutting Height	0.98 Inches
Max. Adjustable Cutting Height	2.95 Inches
Grass Collection Bag Capacity	10.57 Gallons (approx. 8 Gallons in some descriptions)
Battery Type	4 x 4.0Ah 20V (U20 4.0Ah / 20000mAh)
Approx. Operating Time (with 4x4.0Ah)	60+ minutes (up to 80 minutes for 6000 sqft)
Item Weight	42.3 pounds
Product Dimensions (Unfolded)	31.1\"D x 18.9\"W x 43.31\"H
Product Dimensions (Folded)	Approx. 31.1\"D x 18.9\"W x 18.1\"H
UPC	740907588972

10. Warranty and Support

For warranty information, product registration, or technical assistance, please contact Litheli customer support directly. Keep your purchase receipt and model number handy for faster service.
Manufacturer: Litheli
Contact: Refer to the official Litheli website or the contact information provided on the product packaging for the most up-to-date support details.