

UPLUS NEW TECHNOLOGY BATTERY EBU1-4

UPLUS U1 Riding Lawn Mower Battery Instruction Manual

Brand: UPLUS NEW TECHNOLOGY BATTERY | **Model:** EBU1-4

1. INTRODUCTION

This manual provides essential information for the safe and effective use, installation, and maintenance of your UPLUS U1 Riding Lawn Mower Battery. This 12V 20Ah AGM battery is designed to provide reliable starting power for a wide range of lawn and garden tractors.

2. SAFETY INFORMATION

Always prioritize safety when handling batteries. While UPLUS AGM batteries are sealed and maintenance-free, certain precautions must be observed:

- Keep away from open flames, sparks, and heat sources.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling the battery.
- Do not short-circuit the battery terminals.
- Ensure proper ventilation if charging in an enclosed space.
- Keep out of reach of children.
- Refer to the warning labels on the battery for additional safety guidelines.

3. PRODUCT FEATURES

- **Longevity Over 5 Years:** Designed for extended service life.
- **Maintenance Free AGM:** Sealed Lead Acid (AGM) technology requires no water checks or electrolyte top-ups. No spills, no leaks.
- **High Cranking Performance:** Provides 320A/330A Cold Cranking Amps (CCA), ensuring reliable starts even in cold temperatures (down to -22°F).
- **Pure Primary Lead Construction:** Utilizes 99.99% pure primary lead for better charging efficiency, reduced toxic fumes, and enhanced reliability.
- **Wide Compatibility:** Suitable for John Deere, Cub Cadet, Husqvarna, Craftsman, Toro, Ariens, Poulan Pro, Troy-Bilt, and other garden tractors and riding mowers.
- **Integrated Handles:** Features convenient handles for easy installation and removal.
- **Vibration Resistant:** Tightly packed construction and calcium-reinforced grids provide excellent resistance to shock and vibration.

MAINTENANCE FREE AGM STARTING BATTERY

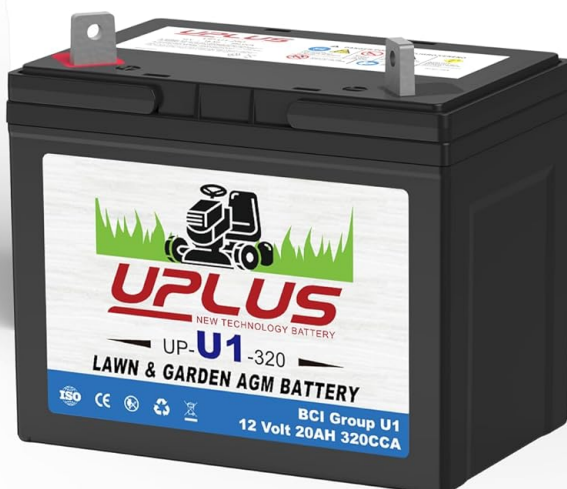
For Lawn, Tractors and Mowers

AGM

Battery Technology

360A

Cranking Amps



Voltage
12V



Cold Cranking Amps
320A



10 Amp Hour Rate
20AH



Reserve Capacity
32min

Figure 3.1: Key specifications including AGM technology, 320A Cold Cranking Amps, 20Ah capacity, and 32-minute Reserve Capacity.

4. SETUP AND INSTALLATION

Installing your UPLUS U1 battery is a straightforward process. Always ensure the vehicle is turned off and the ignition key is removed before beginning.

4.1. Pre-Installation Check

- Verify the battery dimensions (7.68L x 4.92W x 6.93H inches) match your vehicle's battery tray.
- Ensure the new battery is fully charged upon receipt.



Figure 4.1: Detailed dimensions of the UPLUS U1 battery, weighing 14.6 lbs.

4.2. Removal of Old Battery

1. Locate the battery in your lawn mower or garden tractor.
2. Using a 7/16 inch wrench or impact driver, disconnect the negative (-) terminal first, followed by the positive (+) terminal.
3. Carefully lift and remove the old battery from the tray. Utilize the handles if available on the old battery, or exercise caution due to its weight.

4.3. Installation of New UPLUS U1 Battery

1. Place the new UPLUS U1 battery into the battery tray. The integrated handles make this process easier.

2. Remove the red and black terminal protectors from the new battery.
3. Connect the positive (+) terminal first, followed by the negative (-) terminal. Use the supplied 10mm bolts for a secure connection. Ensure connections are snug to prevent vibration and ensure optimal performance.
4. Confirm all connections are tight and secure.

Video 4.1: Demonstrates the process of replacing an old lawn mower battery with a new UPLUS U1 battery, highlighting the use of tools and the convenience of the integrated handles and supplied bolts.



Figure 4.2: Close-up view of the battery terminal connection, showing the nut and bolt mechanism for secure attachment.

5. OPERATING INSTRUCTIONS

Once the UPLUS U1 battery is correctly installed, your lawn mower or garden tractor is ready for operation. The high Cold Cranking Amps (CCA) ensure quick and reliable starts, especially beneficial in cooler climates.

- Ensure all safety mechanisms on your equipment are engaged before attempting to start.

- Turn the ignition key to the 'Start' position. The battery's robust cranking power will initiate the engine.
- Allow the engine to run for a few minutes to ensure the battery receives a charge from the alternator.

The graphic features a dark blue background with a starry pattern. At the top, the text "US LOCAL OFFICE PROVIDE" is written in large, bold, white capital letters. Below this, a large, metallic shield contains the number "15" in a light blue font, with the words "Months Warranty" written in smaller white text underneath. Below the shield is a map of the United States with state boundaries outlined in white. Several locations are marked with icons: a location pin for "SALES OFFICE" and a circle with a dot for "WAREHOUSE". These are located in the West Coast, the South, and the Northeast. At the bottom of the graphic, there are two icons: a wrench and screwdriver for "Professional technical support" and a clock with "12" for "Respond Within 12hrs".

Figure 5.1: The UPLUS U1 battery is suitable for various applications including lawn tractors, garden tractors, and ride-on mowers.

6. MAINTENANCE

The UPLUS U1 is a Maintenance-Free AGM battery, significantly reducing the need for regular upkeep compared to traditional lead-acid batteries. This means:

- No need to check electrolyte levels.
- No need to add distilled water.
- No risk of acid spills or leaks.

6.1. General Care

- Keep the battery terminals clean and free of corrosion. Use a wire brush and a mixture of baking

soda and water if corrosion is present, then rinse and dry thoroughly.

- Ensure battery cables are securely fastened to the terminals. Loose connections can lead to poor performance and potential damage.
- Store the battery in a cool, dry place when not in use for extended periods. A trickle charger can be used to maintain charge during off-season storage.

7. TROUBLESHOOTING

If your lawn mower or garden tractor is experiencing starting issues, consider the following troubleshooting steps related to the battery:

7.1. Common Issues and Solutions

Symptom	Possible Cause	Solution
Engine cranks slowly or not at all	Low battery charge; Loose or corroded terminals; Internal battery damage (e.g., sulfation)	Charge the battery with a compatible charger; Clean and tighten terminals; Test battery health with a battery tester (if available). If health is low despite full charge, replacement may be necessary.
Battery not holding a charge	Faulty charging system (alternator/regulator); Parasitic drain; End of battery life	Inspect charging system; Check for electrical shorts; Replace battery if it fails load test.
Clicking sound when trying to start	Severely discharged battery; Faulty starter solenoid	Charge battery; Test starter solenoid.

Note: A battery tester can indicate battery health. For example, a reading of 'REPLACE' suggests the battery's internal capacity is degraded, even if it shows 100% charge.

8. SPECIFICATIONS

Specification	Value
Model Number	EBU1-4
Product Dimensions (L x W x H)	7.68 x 4.92 x 6.93 inches
Item Weight	14.6 pounds

Specification	Value
Battery Cell Composition	Lead-Acid, AGM
Voltage	12V
Battery Capacity	20 Amp Hours (Ah)
Cold Cranking Amps (CCA)	320A/330A
Recommended Uses	Yard Lawn Mowers, Garden Tractors, Riding Mowers, Lawn Tractors, Ride On Mowers

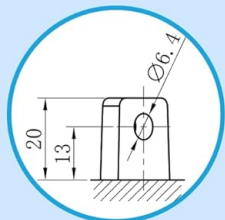
9. WARRANTY AND SUPPORT

UPLUS is committed to providing high-quality products and excellent customer service.

- **Warranty:** Your UPLUS U1 battery comes with a 15-month warranty. Additionally, a 60-day refund window is provided.
- **Local After-Sales Support:** UPLUS maintains fixed offices and warehouses in California, ensuring prompt local support. Our dedicated after-sales team aims to respond to inquiries within 12 hours.

For any questions, technical assistance, or warranty claims, please contact UPLUS customer support through the official channels provided at the point of purchase or on the UPLUS website.

FITS MOST CABLE ASSEMBLIES WITH QUICK INSTALLATION



Nut & Bolt •



Figure 9.1: UPLUS provides local after-sales support with professional technical assistance and a 12-hour response time.