



Manuals.plus /

- › UPG /
- › UPG UB1250 12V 5AH Sealed Lead Acid Battery Instruction Manual

UPG UB1250

UPG UB1250 12V 5AH Sealed Lead Acid Battery Instruction Manual

Model: UB1250 | Brand: UPG

1. OVERVIEW

The UPG UB1250 is a 12V 5AH Sealed Lead Acid (SLA) battery designed for reliable power delivery across various applications. Manufactured with high-quality components, this non-spillable battery is compatible with original equipment in diverse systems. Its robust design ensures consistent performance for critical functions.

Common applications include:

- Medical devices
- Emergency lighting
- Mobility scooters and devices
- Security systems
- Uninterruptible Power Supplies (UPS)

2. SETUP AND INSTALLATION

Before installation, ensure the battery's specifications (voltage, amperage, and dimensions) match the requirements of your device. Always refer to your equipment's specific instruction manual for detailed installation procedures. Handle the battery with care to prevent damage to terminals or casing.

2.1. Physical Dimensions

Verify the physical fit of the UB1250 battery in your equipment. The approximate dimensions are 3.54 inches (D) x 2.76 inches (W) x 4.21 inches (H).

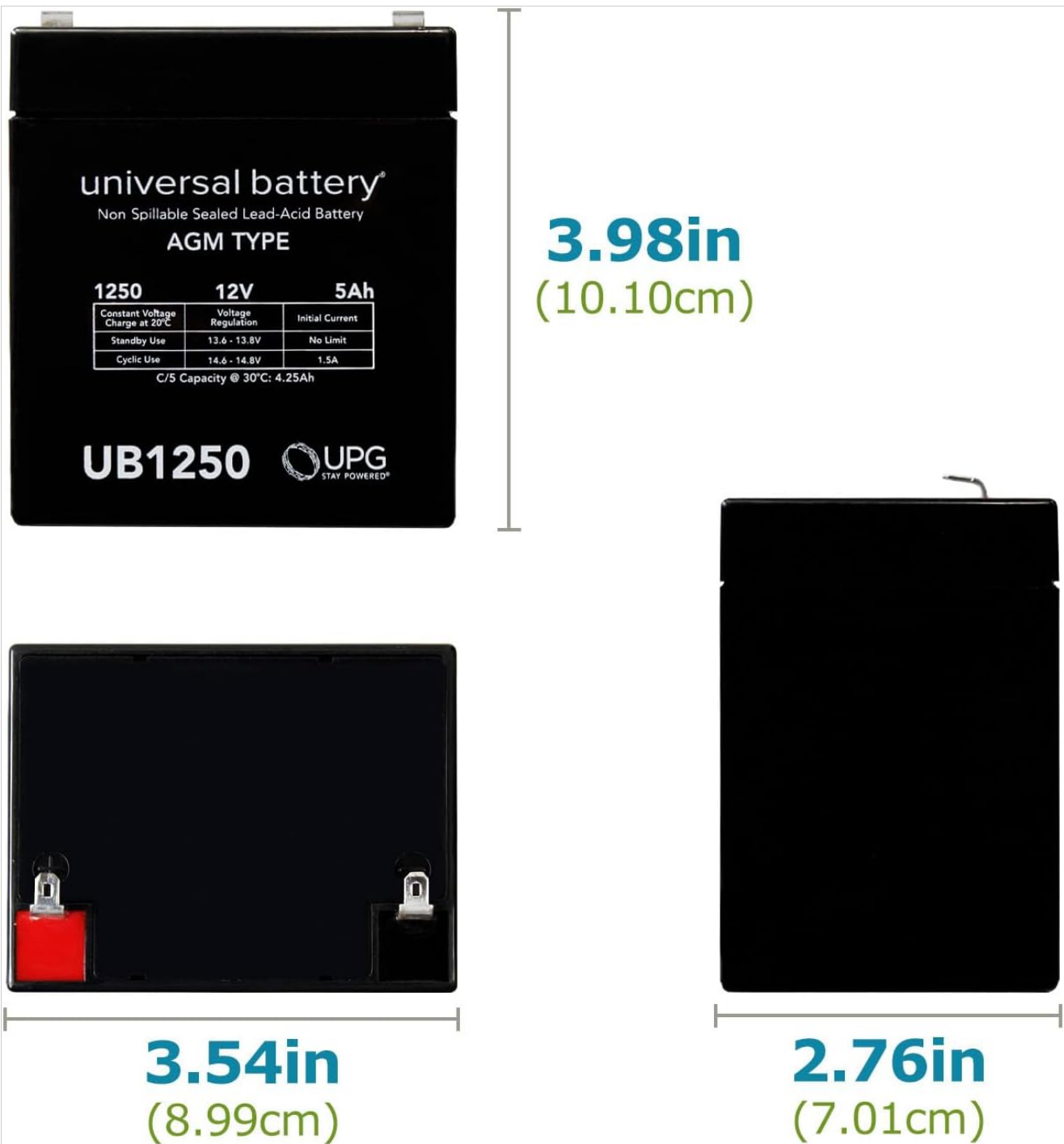


Image 1: UPG UB1250 battery showing its length (3.54in), width (2.76in), and height (3.98in, which is approximately 4.21in including terminals).

2.2. Terminal Connections

Connect the battery terminals according to your device's wiring diagram. Typically, the red terminal is positive (+) and the black terminal is negative (-). Ensure connections are secure to prevent arcing or poor performance. **Do not short circuit terminals.**

2.3. Installation Guidance Video

For a visual guide on general sealed lead acid battery installation, please watch the following video. Note that specific steps may vary based on your equipment model.

Your browser does not support the video tag.

Video 1: A seller-provided video titled 'What You Should Know - UB1250 Sealed Lead Acid Batteries' offering general information and installation tips for the UB1250 battery.

3. OPERATING INSTRUCTIONS

The UPG UB1250 battery is designed for both standby and cyclic use. It is a maintenance-free, non-spillable battery, meaning it does not require water replenishment.

3.1. Charging

Always use a charger compatible with 12V sealed lead acid batteries. Overcharging or undercharging can significantly reduce battery life. Refer to the battery's label or datasheet for specific voltage regulation and initial current recommendations.

Battery Specifications

Voltage	12 Volt
Capacity	5 Amp
Weight	3.09 lbs
Terminal	F1



Image 2: Close-up of the UPG UB1250 battery label, detailing constant voltage charge at 20°C for standby use (13.6-13.8V) and cyclic use (14.6-14.8V), with initial current less than 1.5A.

3.2. Discharge

Avoid total discharging (deep discharge) as this can permanently damage the battery. For optimal lifespan, avoid discharging below recommended levels. The battery is designed to provide 5 Amp-hours of capacity.

4. MAINTENANCE

While the UB1250 is a maintenance-free battery, regular checks can help ensure its longevity and optimal performance.

- **Visual Inspection:** Periodically inspect the battery for any signs of physical damage, cracks, or swelling. Ensure terminals are clean and free of corrosion.
- **Voltage Check:** Occasionally check the battery's voltage with a multimeter to ensure it is within the recommended range (e.g., 12.8V-13.2V for a fully charged 12V battery).
- **Storage:** When storing the battery for extended periods, ensure it is fully charged and stored in a cool, dry place. Avoid storing it in direct sunlight or areas with extreme temperatures (above 65°C or below -15°C).
- **Replacement:** It is recommended to replace the battery every 3-5 years, or sooner if performance degrades significantly.

5. TROUBLESHOOTING

If you experience issues with your UPG UB1250 battery, consider the following:

- **Battery Not Holding Charge:** This could indicate an aging battery, a faulty charger, or excessive discharge. Test the charger's output voltage and consider replacing the battery if it's old.
- **Low Voltage Output:** Check all connections for looseness or corrosion. Ensure the battery is fully charged. If the issue persists, the battery may be at the end of its lifespan.
- **Swollen Casing:** A swollen battery casing is a sign of internal damage, often due to overcharging or overheating. Discontinue use immediately and replace the battery.
- **Device Not Powering On:** Verify that the battery is correctly installed and fully charged. Check the device's fuses or circuit breakers.

6. SPECIFICATIONS

Detailed technical specifications for the UPG UB1250 12V 5AH Sealed Lead Acid Battery:

Specification	Value
Brand	UPG
Model Number	85983/D5741
Voltage	12 Volts
Battery Capacity	5 Amp Hours (5Ah)
Battery Cell Composition	Lead Acid
Product Dimensions (D x W x H)	3.54"D x 2.76"W x 4.21"H
Item Weight	448 Grams (approx. 0.99 lbs)
Manufacturer	UPGI
Included Components	Battery

6.1. Detailed Datasheet

For comprehensive technical data, including discharge characteristics, shelf life, and temperature effects, please refer to the manufacturer's datasheets:

Specification

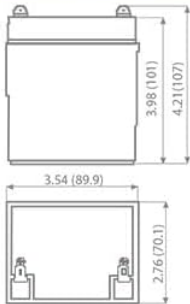
Nominal Voltage	12 volts		
Nominal Capacity	77° F (25° C)		
20-hr. (0.25A)	5.00 Ah		
10-hr. (0.47A)	4.65 Ah		
5-hr. (0.85A)	4.25 Ah		
1-hr. (3.00A)	3.00 Ah		
Approximate Weight	3.09 lbs (1.4 kgs)		
Internal Resistance (approx.)	32mΩ		
Shelf Life (% of normal capacity at 68° F (20° C))			
3 Months	6 Months	12 Months	
91%	83%	64%	
Temperature Dependency of Capacity	(20 hour rate)		
104° F (40°C)	77° F (25°C)	32° F (0°C)	5° F (-15°C)
102%	100%	85%	65%
AGM Operational Temperature			
Charge	32°F to 104°F (0°C to 40°C)		
Discharge	5°F to 113°F (-15°C to 45°C)		
AGM Storage Temperature	5°F to 104°F (-15°C to 40°C)		



Due to continuous improvements to our products, product may vary slightly from depiction.

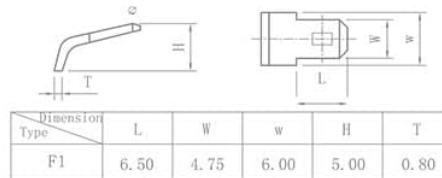
Charge Method (Constant Voltage)		
Cycle Use (Repeating Use)		
Initial Current	1.5 A or smaller	
Control Voltage	14.6 - 14.8 V	
Float Use		
Control Voltage	13.6 - 13.8 V	

Physical Dimensions: in (mm)

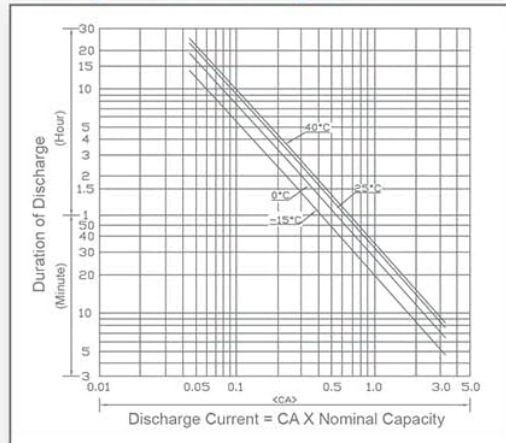


L: 3.54 in (89.9 mm)
W: 2.76 in (70.1 mm)
H: 3.98 in (101 mm)
TH: 4.21 in (107 mm)
Tolerances are +/- 0.04 in. (+/- 1 mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Terminals



Discharge Time vs. Discharge Current



Discharge Characteristics

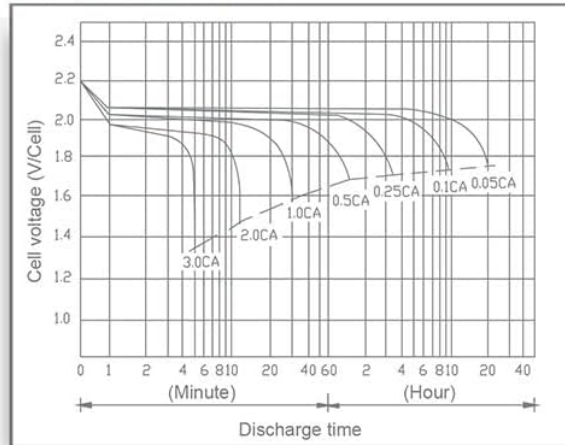
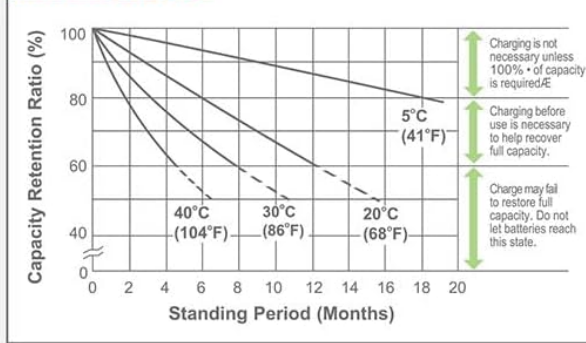
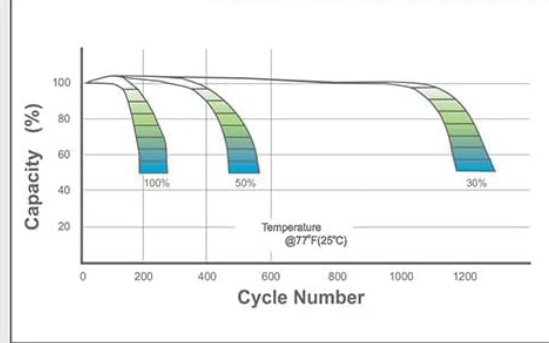


Image 3: UPG UB1250 battery datasheet, page 1, showing nominal capacity, internal resistance, temperature dependency, charge methods, and physical dimensions.

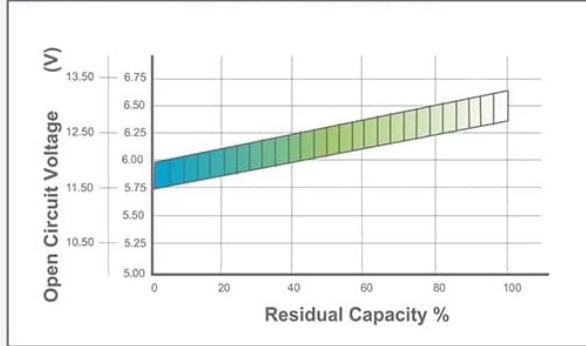
Shelf Life & Storage



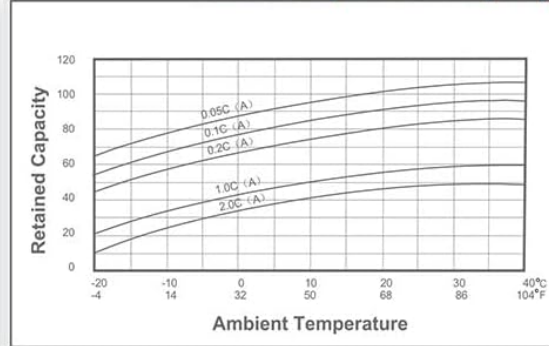
Cycle Life vs Depth of Discharge



Open Circuit Voltage vs Residual Capacity



Effect of Temperature on Capacity



Charge Current & Final Discharge Voltage

Application	Charge Voltage (V/Cell)			Max. Charge Current	Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
	Temperature	Set Point	Allowable Range						
Cycle Use	25°C (77°F)	2.45	2.43-2.47	0.30°C	Discharge Current(A)	0.2C > (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C
Standby	25°C (77°F)	2.28	2.27-2.30						

Image 4: UPG UB1250 battery datasheet, page 2, illustrating shelf life vs. storage, cycle life vs. depth of discharge, open circuit voltage vs. residual capacity, and effect of temperature on capacity.

7. WARRANTY

The UPG UB1250 battery comes with a **one-year warranty** from Advanced Battery Systems, Inc. Please retain your proof of purchase for warranty claims.

8. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact the manufacturer or your point of purchase. Always ensure proper disposal of old batteries by contacting your local government or waste management company for hazardous material regulations.