

Akkuman.de Akkutechnik vom Fachmann KPH75-12NE

Kung Long KPH75-12NE M6 12V 75Ah Replacement Battery User Manual

Model: KPH75-12NE



1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, installation, and maintenance of your Kung Long KPH75-12NE M6 12V 75Ah replacement batteries. These high-quality, sealed lead-acid (VRLA) batteries are specifically designed for cyclic applications, offering reliable power for devices such as electric wheelchairs, mobility scooters (e.g., Pride Ranger, Victory XL, Victory 130), and golf caddies. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in fire, explosion, electric shock, or other injury or damage.

- **Do not incinerate:** Batteries may explode if disposed of in fire.
- **Do not short the battery terminals:** Accidental shorting can cause severe burns, fire, or explosion. Use insulated tools.
- **Do not charge in a gas-tight container:** Ensure adequate ventilation during charging to prevent gas accumulation.
- **Electrolyte contact:** If contact is made with electrolyte (acid), flush the affected area with water immediately and seek medical attention.
- **Temperature:** Do not expose batteries to temperatures above 60°C (140°F).
- **Disassembly:** Do not disassemble, modify, or puncture the battery. There are no user-serviceable parts inside.
- **Handling:** Batteries are heavy. Use appropriate lifting techniques and equipment to prevent injury.



Image 2.1: Close-up of the product label on a Kung Long KPH75-12NE M6 12V 75Ah battery. The label includes critical safety warnings such as 'Do not incinerate,' 'Do not short the battery terminals,' and 'Risk of fire, explosion, or burns.' It also lists technical details like 'Rechargeable Sealed Lead-Acid Battery,' 'DC power, constant voltage charge,' 'Cycle use: 14.4-15.0V (25°C),' and 'Standby use: 13.5-13.8V (25°C). This information is crucial for safe handling and proper charging.

3. PRODUCT OVERVIEW

The Kung Long KPH75-12NE M6 12V 75Ah batteries are high-performance, maintenance-free, valve-regulated lead-acid (VRLA) batteries. They are designed for deep cycle applications, meaning they can be repeatedly charged and discharged without significant loss of capacity or lifespan. These batteries are a superior replacement solution for various mobility devices.

Key Features:

- **Industrial Quality:** Manufactured to high industrial standards for reliability.
- **Low Internal Resistance:** Ensures efficient power delivery and resilience under load.
- **High Cycle Stability:** Optimized for frequent charging and discharging cycles, leading to a long service life (up to 10 years under ideal conditions).
- **Leak-Proof Design:** Sealed construction allows for operation in various positions without leakage.
- **Integrated Safety Valve:** Maintains optimal internal pressure for safe operation.
- **Quick-Charge Capable:** Designed to accept charge efficiently.
- **Rechargeable:** Fully rechargeable for extended use.
- **100% Maintenance-Free:** No need to check electrolyte levels or add water.



Image 3.1: This image displays two Kung Long KPH75-12NE M6 12V 75Ah sealed lead-acid batteries. The batteries are dark gray with red and blue terminal caps, and a yellow and black product label indicating the model number, voltage, capacity, and safety warnings. They are ready for installation as a pair.



Image 3.2: A collage illustrating various applications for the batteries, including individuals using mobility scooters and electric wheelchairs in outdoor environments such as parks and scenic landscapes. This highlights the product's suitability for medical technology and leisure applications requiring reliable power.

4. SPECIFICATIONS

Refer to the following technical specifications for the Kung Long KPH75-12NE M6 12V 75Ah batteries:

Specification	Value
Model	KPH75-12NE
Voltage	12 Volts
Capacity	75 Ampere-hours (Ah) / 20 hours
Battery Composition	VRLA Lead-Acid
Dimensions (L x W x H)	260 mm x 169 mm x 205 mm (approx.)

Specification	Value
Weight per battery	24.4 kg (approx.)
Terminal Type	M6 Screw Connection
Cycle Use Voltage (25°C)	14.4 - 15.0 V
Standby Use Voltage (25°C)	13.5 - 13.8 V
Initial Current	22.5 A MAX



Image 4.1: A single Kung Long KPH75-12NE M6 12V 75Ah battery is shown with its physical dimensions clearly marked: 260 mm in length, 170 mm in width, and 205 mm in height. This provides essential information for fitment and space requirements.

5. INSTALLATION/SETUP

These batteries are designed as direct replacements for compatible mobility devices. Professional installation is recommended to ensure correct wiring and safety.

Installation Steps:

1. **Safety First:** Ensure the device is turned off and disconnected from any power source before beginning installation. Wear appropriate personal protective equipment, including insulated gloves and eye protection.
2. **Locate Old Batteries:** Identify the location of the existing batteries in your device. Note their orientation and how they are connected.
3. **Disconnect Old Batteries:** Always disconnect the negative (black) terminal first, followed by the positive (red) terminal. This minimizes the risk of accidental short circuits.
4. **Remove Old Batteries:** Carefully remove the old batteries. Be mindful of their weight.
5. **Inspect Battery Compartment:** Clean the battery compartment and inspect for any corrosion or damage.
6. **Install New Batteries:** Place the new Kung Long KPH75-12NE batteries into the compartment, ensuring they are correctly oriented.
7. **Connect New Batteries:** Connect the positive (red) terminal first, then the negative (black) terminal. Ensure all connections are tight and secure. The M6 screw terminals require a suitable wrench for proper tightening.
8. **Secure Batteries:** Ensure the batteries are securely fastened within the compartment to prevent movement during operation.
9. **Initial Charge:** It is recommended to fully charge the new batteries before their first use. Refer to the 'Operation' section for charging guidelines.

Note: If you are unsure about any step of the installation process, consult a qualified technician or the device manufacturer's manual.

6. OPERATION

These batteries are designed for cyclic use in applications requiring regular discharge and recharge cycles. They provide consistent and reliable power throughout their operational life.

Charging Guidelines:

- **Use Compatible Charger:** Always use a charger specifically designed for 12V VRLA lead-acid batteries with a suitable current output for 75Ah capacity.
- **Charge Voltage:** For cyclic use, charge between 14.4V and 15.0V at 25°C. For standby use (float charge), maintain between 13.5V and 13.8V at 25°C.
- **Initial Current:** The maximum initial charging current should not exceed 22.5A.
- **Full Charge:** Ensure batteries are fully charged after each significant discharge to maximize lifespan. Avoid prolonged partial charges.
- **Temperature:** Charge batteries in a well-ventilated area at ambient temperatures. Extreme temperatures can affect charging efficiency and battery life.

The batteries are designed to be maintenance-free, meaning no water addition is required. However, proper charging practices are crucial for their longevity.

7. MAINTENANCE

The Kung Long KPH75-12NE batteries are 100% maintenance-free, eliminating the need for electrolyte level checks or water replenishment. However, routine care can help ensure their optimal performance and lifespan.

Recommended Maintenance Practices:

- **Keep Clean:** Periodically clean the battery tops and terminals with a damp cloth to remove dust and dirt. Ensure terminals are free of corrosion.

- **Check Connections:** Regularly inspect terminal connections to ensure they remain tight and secure. Loose connections can lead to power loss and heat buildup.
- **Avoid Deep Discharge:** While designed for deep cycles, consistently discharging batteries to extremely low levels can reduce their overall lifespan. Recharge promptly after use.
- **Storage:** If storing the device or batteries for an extended period, ensure the batteries are fully charged and stored in a cool, dry place. Periodically check and recharge them every 3-6 months to prevent self-discharge below critical levels.
- **Temperature Control:** Operate and store batteries within recommended temperature ranges to prevent performance degradation.

8. TROUBLESHOOTING

If you encounter issues with your batteries, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Device not powering on	Batteries are discharged; Loose terminal connections; Faulty charger	Charge batteries fully; Check and tighten all connections; Test charger functionality
Short operating time after full charge	Batteries not fully charged; Batteries reaching end of life; Excessive load on device	Ensure proper charging cycle; Consider battery replacement if old; Reduce device load if possible
Batteries not charging	Charger malfunction; Loose connection between charger and battery/device; Battery fault	Verify charger operation; Check all charging connections; Consult a technician if battery is suspected faulty
Unusual heat from batteries during operation/charging	Overcharging; Internal short circuit; Excessive current draw	Disconnect immediately; Check charger voltage settings; Consult a professional; Replace battery if necessary

If problems persist after attempting these solutions, please contact customer support or a qualified service technician.

9. WARRANTY AND SUPPORT

These Kung Long KPH75-12NE batteries are manufactured to high-quality standards and are designed for a long service life, potentially up to 10 years under optimal conditions and proper maintenance.

For specific warranty details, claims, or technical support, please refer to the purchase documentation or contact the seller directly. Ensure you have your purchase information and battery model number available when seeking support.

10. RECYCLING INFORMATION

These batteries contain lead and other materials that must be recycled responsibly. Do not dispose of batteries with household waste.

- **Recycle:** Always return spent batteries to an authorized battery recycling facility.
- **Local Regulations:** Consult your local waste management authority for information on battery recycling programs in your area.



Image 10.1: The battery label clearly indicates the 'Pb' symbol for lead and the 'crossed-out wheeled bin' symbol, signifying that the battery must not be disposed of as unsorted municipal waste and must be recycled.