

Hanaix 12V 3.5Ah Ni-MH Replacement Battery

Hanaix 12V 3.5 Ah Ni-MH Replacement Battery User Manual

For Bosch 12V Power Tools and Compatible Battery Models

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Hanaix 12V 3.5 Ah Ni-MH replacement battery. This battery is engineered to deliver reliable power for a wide range of Bosch 12V power tools and is compatible with numerous original Bosch battery models.

The Hanaix 12V 3.5 Ah Ni-MH battery offers a high capacity of 3500mAh, providing extended run-time for your tools. It is built with high-quality SC cells and utilizes a lead-free SMT process, ensuring durability and consistent performance without the memory effect commonly associated with older battery technologies. This product meets stringent quality standards, holding CE, FCC, PSE, and RoHS certifications.



Image 1.1: The Hanaix 12V 3.5 Ah Ni-MH Replacement Battery, designed for compatibility with Bosch power tools.

Replace for Bosch 12V Battery

100% Compatible With Original

3500mAh



CAPACITY

3500mAh



VOLTAGE

12V



TYPE

Ni-MH

Image 1.2: Visual representation of the battery's key specifications: 3500mAh capacity, 12V voltage, and Ni-MH cell type.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage to the battery or your tools, please observe the following safety precautions:

- Do not short-circuit the battery terminals.
- Do not expose the battery to fire, high temperatures (above 60°C / 140°F), or direct sunlight.
- Do not disassemble, crush, or modify the battery.
- Keep the battery away from water, moisture, and flammable liquids.
- Store the battery out of reach of children.
- Dispose of used batteries according to local regulations. Do not dispose of in household waste.
- Use only compatible Ni-MH chargers. Using an incompatible charger may cause damage or fire.
- If the battery shows signs of damage, leakage, or overheating, discontinue use immediately.

The Hanaix battery incorporates intelligent multiple protection features to enhance safety:

- **Over-heating Protection:** Prevents damage from excessive temperatures.

- **Over-charge Protection:** Safeguards against overcharging, which can reduce battery life.
- **Over-voltage Protection:** Protects against voltage surges.
- **Over-current Protection:** Manages current flow to prevent damage.
- **Over-discharge Protection:** Prevents deep discharge, preserving battery health.
- **Short-circuit Protection:** Automatically cuts off power in case of a short circuit.



Image 2.1: Diagram illustrating the intelligent multiple protection features integrated into the battery for enhanced safety.



Image 2.2: The battery carries CE, FCC, and RoHS certifications, indicating compliance with safety and environmental standards.

3. SETUP AND INSTALLATION

Follow these steps to properly install and remove the Hanaix replacement battery from your compatible Bosch 12V power tool:

1. **Preparation:** Ensure your power tool is switched off and disconnected from any power source before handling the battery.
2. **Installation:** Align the battery's metal connectors with the corresponding slot on your Bosch 12V power tool. Slide the battery firmly into place until you hear and feel a distinct click. This click confirms that the battery is securely locked.
3. **Removal:** To remove the battery, locate the red release buttons on the sides of the battery pack. Press these buttons simultaneously and slide the battery out of the tool.



Image 3.1: Close-up view of the battery's metal connector and the press-and-pull mechanism for easy installation and removal.

4. OPERATING INSTRUCTIONS

Proper charging and usage are crucial for maximizing the performance and lifespan of your Hanaix battery.

4.1 Initial Charging

For optimal performance and to condition the battery, it is recommended to fully charge the battery before its first

use. This helps to ensure the battery reaches its full capacity.

4.2 Charging the Battery

- Use only original Ni-MH chargers and power adapters specifically designed for Bosch 12V Ni-MH batteries. Using an incompatible charger can damage the battery and void the warranty.
- Connect the charger to a power outlet and insert the battery into the charger. Follow the charger's instructions for charging indicators.
- The Hanaix Ni-MH battery can be charged or discharged as needed, as it does not suffer from the memory effect. This means you do not need to fully discharge the battery before recharging it.

4.3 Using the Battery

- Once fully charged and installed in your power tool, operate the tool according to its manufacturer's instructions.
- Monitor the tool's performance. Recharge the battery when you notice a significant decrease in power or speed, rather than waiting for it to completely drain.
- Avoid operating the tool in extreme temperatures, as this can affect battery performance and lifespan.



Image 4.1: A graph illustrating the extended run-time of the 3500mAh Hanaix battery compared to standard 3000mAh batteries.

5. MAINTENANCE

Proper maintenance will help extend the life and performance of your Hanaix battery.

- **Storage:** When not in use for extended periods, store the battery in a cool, dry place (ideally between 10°C and 25°C / 50°F and 77°F). Charge the battery to approximately 50-70% before long-term storage to prevent deep discharge.
- **Cleaning:** Regularly inspect and clean the battery terminals with a dry, clean cloth to ensure good electrical contact.
- **Avoid Extreme Temperatures:** Do not store or operate the battery in extremely hot or cold conditions, as this can degrade performance and shorten lifespan.
- **Cycle Life:** The battery is designed to withstand over 500 recharge cycles. Following proper charging and storage guidelines will help achieve this lifespan.
- **Environmental Benefits:** Ni-MH batteries are a more environmentally conscious choice compared to Ni-Cd batteries, as they do not contain cadmium and exhibit lower self-discharge rates.

Encourage to use Ni-MH battery



Ni-MH

long life
high capacity
memory effect: no
recharge cycles: >500
environment pollution: no
self-discharge: low

Ni-Cd

short life
low capacity
memory effect: yes
recharge cycles: >300
pollute environment: serious
self-discharge: serious

Image 5.1: Comparison highlighting the advantages of Ni-MH batteries (long life, high capacity, no memory effect, low self-discharge, environmentally friendly) over Ni-Cd batteries.

6. TROUBLESHOOTING

If you encounter issues with your Hanaix replacement battery, refer to the following common troubleshooting steps:

- **Battery Not Charging:**

- Ensure the charger is correctly plugged into a working power outlet.
- Verify that the battery is properly seated in the charger.
- Confirm that you are using a compatible Ni-MH charger for 12V batteries.
- Check for any visible damage to the battery or charger terminals.

- **Reduced Run-time:**

- Ensure the battery is fully charged before each use.
- Battery performance can be affected by extreme temperatures; allow the battery to reach room temperature before use.
- If the battery is old, reduced run-time may indicate it is nearing the end of its operational lifespan.

- **Battery Not Fitting Tool:**

- Double-check the compatibility list in this manual to ensure your tool model is supported.
- Ensure the battery is aligned correctly with the tool's battery slot and inserted with sufficient force until it clicks.

7. SPECIFICATIONS

Brand	Hanaix
Model	12V 3.5Ah Ni-MH Replacement Battery
Voltage	12V
Capacity	3500mAh (3.5 Ah)
Battery Cell Composition	Ni-MH (Nickel-Metal Hydride)
Certifications	CE, FCC, PSE, RoHS
Item Weight	1.35 pounds
Package Dimensions	5.3 x 4.9 x 4.3 inches
Compatible Bosch Battery P/N	BAT043, BAT045, BAT046, BAT049, BAT120, BAT139, 2607335249, 2607335261, 2607335262, 2607335273, 2607335274, 2607335374, 2607335375, 2607335395, 2607335414, 2607335415, 2607335416, 2607335429, 2607335430, 2607335442, 2607335454, 2607335455, 2607335463, 2607335471, 2607335487, 2607335526, 2607335531, 2607335541, 2607335542, 2607335555, 2607335675, 2607335676, 2607335684, 2607335692, 2607335697, 2607335709, 2607336002, 2609200306
Compatible Bosch Tools	22612, 23612, 3360, 32612, 3360K, 3455, 3455-01, EXACT 8, EXACT 12, EXACT 700, GBH 12VRE, GLI 12 V, GLI 12V (Flash light), GSB 12 VE-2, GSR 12 VE-2, GSR 12-1, GSR 12-2, PAG 12V, PLI 12V, PSB 12 VE-2, PSR 12, PSR 12VE, PSR 12VE-2



100% Professional Replacement Battery

Replace for Battery:

Bosch 12 volt Battery BAT043, BAT045, BAT046, BAT049, BAT120, BAT139, 2607335249, 2607335261, 2607335262, 2607335273, 2607335375, 2607335395, 2607335414, 2607335415, 2607335416, 2607335429, 2607335430, 2607335442, 2607335454, 2607335455, 2607335463, 2607335471, 2607335487, 2607335526, 2607335531, 2607335541, 2607335542, 2607335555, 2607335675, 2607335676, 2607335684, 2607335692, 2607335697, 2607335709, 2607336002, 2609200306, 2607335274, 2607335374

Compatible with Tools:

Bosch 12 volt Power Tool 22612, 23612, 3360, 32612, 3360K, 3455, 3455-01, EXACT 8, EXACT 12, EXACT 700 GBH 12VRE, GLI 12 V, GLI 12V (Flash light), GSB 12 VE-2, GSR 12 VE-2, GSR 12-1, GSR 12-2, PAG 12V, PLI 12V, PSB 12 VE-2, PSR 12, PSR 12VE, PSR 12VE-2



Image 7.1: A detailed list of compatible Bosch battery part numbers and power tool models for the Hanaix replacement battery.

8. WARRANTY AND SUPPORT

Hanaix stands behind the quality of its products. Your Hanaix 12V 3.5 Ah Ni-MH replacement battery is covered by the following:

- **1-Month Full Refund:** If you are not completely satisfied within one month of purchase, you are eligible for a full refund.
- **12-Month Part Refund or Replacement:** For any quality problems encountered within 12 months of purchase, Hanaix offers a part refund or a replacement battery.

For warranty claims, technical support, or any inquiries regarding your Hanaix battery, please contact Hanaix customer service through the platform where you made your purchase. Please have your order details ready to facilitate the support process.