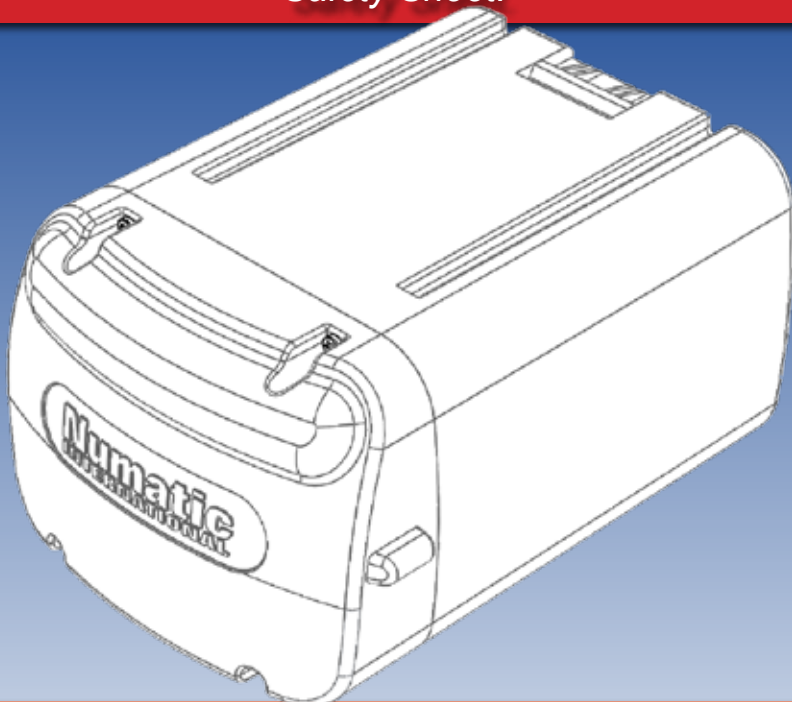


Numatic Lithium-Ion Battery

Usage and Storage.

Safety Sheet.



Product name: Numatic Lithium-Ion Battery.
Battery Type: 36V 5200 mAh.



Always read and observe the instruction manual of the NUMATIC appliance powered by this battery.



If the battery is found to be faulty at any time, contact Numatic International, or your supplier for information on disposal.

Temperature Range Table

Charging	0°C~40°C
Discharging	0°C~60°C
Storage	
Optimum	Below 20°C
Limit	Below 55°C

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Care and Disposal of Lithium-Ion Batteries

DEFECTIVE BATTERIES



ATTENTION

Please follow all safety guidelines set out.

A defective battery should not be stored inside buildings on any account.



1. If a customer wishes to return a battery to a supplier, then collection of the battery must be arranged by the supplier, however, ***Faulty batteries must not be returned through the postal system or by courier.***
2. If on return to a supplier, OR at a customer base, a suspected defective battery shows any signs of impact damage, distortion, blistering, loose parts or leakage then on no account should it be offered for condition checking. It must be considered defective and the procedures described from item 8 below should be followed.
3. If, on return to a supplier, OR at a customer base, a suspected defective battery, that shows No signs of impact damage, distortion, blistering, loose parts or leakage, may be offered for condition checking with an appropriate battery condition checking device operated by a competent person.
4. If checking shows the battery to be defective then the procedures described from item 8 below should be followed.
5. If on checking the battery is found to be operational then a single recharge cycle under observation can be attempted with the appropriate Numatic charger.
6. If the battery recharges correctly on this single recharge cycle then it can be deemed a good battery.
7. If the battery fails to recharge correctly on this single recharge cycle then it must be deemed a defective battery and the procedures described from item 8 below should be followed. ***On no account must any further attempt to recharge be made.***

A defective battery should not be stored inside buildings on any account.

8. The defective battery should be discharged by placing it in a container of salt water. This container should contain 25 litres minimum of saline water at a concentration of 15gr common salt / litre of water. The container should have a closed locked lid but should not be sealed. The battery should be left fully immersed in the water to a depth of at least 100mm for at least 2 weeks. The water should be disposed of as hazardous waste when the discharge is complete.
9. The defective discharged battery can then be stored in a locked battery waste container which should be plastic or plastic lined and placed away from buildings and clearly signed as a defective battery container with appropriate warnings.
10. The batteries should then be sent for waste disposal according with your country's waste regulations.



An example of a waste battery storage bin well away from buildings.



ATTENTION

Please follow all safety guidelines set out.



Good batteries should be stored in a protected area away from sources of direct heat and sunlight and should be kept dry.

The temperature should not exceed 55 °C but preferably not be above 20 °C to maintain good battery performance.

Storage area should be of low humidity, non dusty and a non corrosive atmosphere.



An example of a well protected area with a cage to protect against accidental impact damage and with the batteries stored in a Protective container to protect from heat, impact and accidental spillage of liquids.

Care when handling / moving with forklift trucks or pallet trucks is needed at all times to avoid any physical damage to the batteries.

If a good battery at any time is mishandled or subjected to any conditions that may damage it, as described in the battery Instruction manual supplied, it must then be considered as defective and procedures followed from Item 2 of this document overleaf.

It is important that you observe the following information and warnings.

Section 1 - Hazards Identification

- Electrolyte may escape from damaged batteries. Avoid contact.
- Contact can cause skin irritation, burns and chemical burns.
- If liquid comes into contact with eyes, seek medical attention.
- Avoid inhaling any vapours formed or released – caustic.

Section 2 - First Aid Measures

In the event of contact with released electrolyte or electrolyte vapours.

- Eye contact – flush eyes for at least 15 minutes with plenty of clean water without rubbing and seek medical attention.
- Skin contact – wash affected areas of skin with plenty of water and soap; if irritation persists, seek medical attention.
- Inhalation – provide fresh air or administer oxygen immediately and seek medical attention.
- Ingestion – if electrolyte has been ingested, seek medical attention immediately.

Information for physicians –

- Contains caustic alkaline electrolytes in cells with lithium oxide, nickel oxide and cobalt/lithium manganese oxide cathodes.
– NO LITHIUM METAL OR LITHIUM ALLOYS.

Section 3 - Fire Fighting Measures

- In case of fire – Keep clear of vapours and gases generated, take wind direction into consideration. If possible without danger, remove batteries from the vicinity of the fire. In principle, cooling or extinguishing with water is possible, but should only be done by trained personnel with sufficiently large quantities of water.
- If the hazard situation is unclear, extinguish only with ABC powder extinguishers (Class D extinguishers for fires involving metals are especially suitable). Fire fighters should only approach the fire wearing protective clothing and self-contained breathing apparatus.
- Once the fire has been extinguished, as a rule, the area should be monitored (fire watch) and cleaned up by trained and appropriately equipped personnel; fire residue should be contained and disposed of properly.

Section 4 - Accidental Release

- Disposal – Wear protective gear, wipe up with absorbent textile and dispose of as hazardous waste at collection points for hazardous waste according to national regulations.

Section 5 - Handling and Storage

Danger!

Improper handling can lead to an explosion or ignite a fire!
Store batteries out of reach of children.

- Insert the battery in the machine only when it is in use:
Always remove the battery from the machine for transport and when it is not in use.
- Storage temperature range: Below 55°C
Temperatures must not exceed 55°C
- Relative humidity range: 45 to 85%
Optimum preservation of functionality: + Below 20°C

WARNING:

- Do not open the battery, disassemble it or allow it to fall from a substantial height.
- Protect the battery against short-circuiting – danger of explosion!
- Protect the battery against rain, do not immerse in liquids – danger of short-circuiting.
- Protect the battery against direct sunlight, heat and fire.
- Do not incinerate the battery –danger of explosion!
- Do not use defective or deformed batteries.

Use only original NUMATIC chargers to charge the battery.

Section 6 - Exposure Controls, Personal Protection

Respiratory Protection.

In case of battery venting, providing as much ventilation as possible.

Avoid confined areas with venting batteries.

Respiratory Protection is not necessary under conditions of normal use.

Ventilation.

Not necessary under conditions of normal use.

Protective Gloves.

Not necessary under conditions of normal use.

Other Protective Clothing or Equipment.

Not necessary under conditions of normal use.

Personal Protection is recommended for venting batteries:

Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

Section 7 - Do

- Do - Use NUMATIC batteries only with NUMATIC appliances and charge them only using NUMATIC chargers.
- Do - Charge battery before use.
- Do - Store the battery out of the reach of children.
- Do - Secure the appliance against unintentional start up – remove the battery from the appliance before transporting or storing the appliance.
- Do - Protect from rain – do not immerse in fluids.
- Do - Protect from direct sunlight, heat, and open flames.
- Do - Keep a battery that is not in use away from metal objects, (e.g. nails, coins, jewellery).
- Do - Follow the disposal advice of the manufacturer and any internal waste management guidance.
- Do - Use and store the battery with-in temperature range. (as shown in Temperature Range Table).

Warning: The battery included in this product must only be charged by the Numatic Charger and docking system supplied with the product and in NO circumstances should an alternative non Numatic charger be used as there is risk severe damage and fire could result.

Section 8 - Do Not

- Do Not - Throw battery into fire – risk of explosion.
- Do Not - Charge or use a defective, damaged or deformed battery.
- Do Not - Open, damage or drop the battery.
- Do Not - Expose the battery to microwaves or high pressure.
- Do Not - Insert objects in the battery's cooling slots.
- Do Not - Bridge (short circuit) the battery terminals with metallic objects since this may damage the battery.
- Do Not - Use metal containers for transporting batteries.
- Do Not - Expose the batteries to high temperatures including direct sunlight.
- Do Not - Leave rechargeable lithium batteries to recharge unattended overnight.
- Do Not - Crush, break open or physically abuse the batteries or the equipment that contains them.

Section 9 - Distributor take-back / disposal



On the basis of Battery Directive, the manufacturers take responsibility for financing collection, treatment and recycling of batteries used in devices. To this end, batteries must be handed over for disposal to the collection systems established for this under national law. Disposal of batteries together with household waste is prohibited; batteries must be collected separately according to type. Return the battery free of charge to your NUMATIC servicing dealer for disposal or hand it over to an appropriate public collection point.

Warning!

The machine must not to be used by persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction.

This machine is not a toy; children shall not play with this machine.

Instructions for Use – Charging Batteries

The charger is intended for use only on flat surfaces, place horizontally on floor or work surface. The charger is intended for use with the detachable power cord supplied, the power unit is capable of operating at different voltages without user adjustment.

If the charger is damaged or does not charge anymore, please return to service centre.

Charging Procedure:

1. Ensure the battery is fully inserted into the charger.
2. Fit the mains power cord to charger and suitable power supply.
3. Please Note: If the battery is above its optimum charging temperature (due to ambient temperature or it if was recently discharged) the charger LED will illuminate on/off RED for a maximum of 40 minutes whilst the battery temperature falls to an acceptable level for charging to begin.
4. The LED should show RED to indicate charging.
5. Once fully charged the LED will show GREEN.
6. If power is supplied to the charger with no battery fitted the LED will show GREEN to indicate STAND-BY status.

CAUTION!

- Check the mains cord regularly for any sign of damage.
- Do not use damaged devices.
- If the mains cord of the charger is damaged, it must be replaced by an original NUMATIC INTERNATIONAL cord available from the manufacturer or service agent.

Lithium-Ion Battery Warranty

Numatic International will guarantee your Numatic Lithium-Ion battery for 550 recharging cycles, providing the cycles have been carried out to the manufacturer's specifications and requirements.

Failure to use the correct Numatic charger will void your warranty.





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