

**Next Generation**

# Nilar ReOx<sup>®</sup> 2 batteries

## The sustainable choice



It has never been easier to do good while doing what's best for you and the planet



The high performance battery  
for your energy needs

Reliable. Smart. Efficient.



**LONG LIFE & ROBUST DESIGN**

The robust Nilar Hydride<sup>®</sup> chemistry combined with our patented bi-polar construction, contributes to the long service life of the battery. This provides a reliable source of power designed to last.

**SOPHISTICATED BATTERY MANAGEMENT SYSTEM (BMS)**

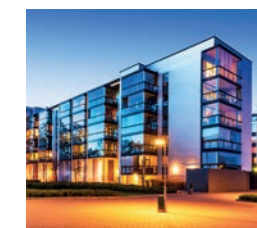
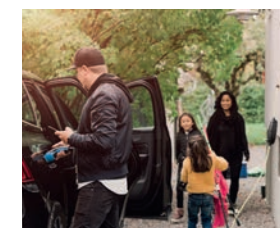
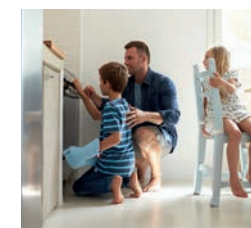
The Nilar BMS monitors, controls and protects batteries to maintain a long service life. The fine-tuned management system optimizes battery operation for best-in-class reliability, safety and efficiency at all time.

**NEW STATE-OF-THE-ART COOLING BLOCK FOR EVEN BETTER PERFORMANCE**

With the new cooling technology the air flow between the battery modules is controlled, enabling cooling on the entire surface of each module. Through these technological advancements, the ReOx<sup>®</sup> battery provides more cycles, generating more energy throughput, and an increased power (C-rate). In addition, the new casing acts as a protecting casing and facilitates installation and safe placement.

**EXTENDED LIFETIME WITH REOX<sup>®</sup>**

Our patented ReOx<sup>®</sup> technology balances the electrodes and replenishes the electrolyte by adding a controlled amount of oxygen. This process brings your Nilar Hydride<sup>®</sup> battery back to its initial 100% capacity, extending its useful life by more than three times.



When selecting batteries for an office building, shopping mall or electrical vehicle charging station, minimising risk is essential. Nilar batteries is the safest choice for storing energy. The modular Nilar battery supports a range of scalable energy storage solutions to meet the needs of different applications.





The safest technology  
for you and your home



## Water-based, non-flammable technology with superior safety benefits



### THE SAFEST CHOICE

Unlike many other batteries, Nilar batteries cannot spontaneously short circuit internally. Therefore, there is no risk of a dangerous and uncontrolled chain reaction where one cell heats up followed by the next and the next, causing an explosion.

Why? Because the water-based, non-flammable electrolyte used is chemically stable so heat generating reactions cannot occur between the electrodes.

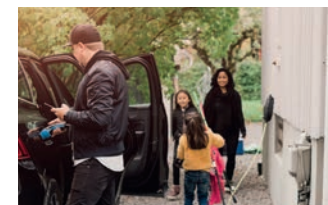
This makes Nilar batteries the safer choice.

### NO RISKS OF A CHAIN REACTION FROM A FIRE

Thanks to the non-flammable, water-based chemistry, Nilar batteries won't release poisonous gases even if there is an external fire close by. There is no risk of explosion, so the emergency services will be able to swiftly respond to the fire without any restrictions – which is not the case for many other battery technologies.

### SAFER THAN SAFE AND EASY TO INSTALL

Thanks to all these safety features, Nilar batteries can be installed safely and easily in your property, whether it is your home, office building or industrial property. In fact, Nilar batteries are so safe that you can transport them by air without any restrictions. Most other batteries require dangerous goods documentation and expensive explosion-proof containers when transporting them. That says it all...



We believe that home owners and tenants should be able to sleep well at night knowing that they have a safe and sustainable energy storage with batteries that are designed to be safer than "safe". That makes Nilar batteries the obvious choice.



It has never been easier to do good while doing what's best for you and the planet

**REDUCE**  
**x3**

Our battery production requires 3 times less energy than conventional battery production.

**RENEWABLE**  
**100%**

Produced with 100% renewable energy.

**REVIVE**  
**x3**

Reoxygenate with ReOx® and extend battery life threefold.

**REUSE & RECYCLE**  
**100%**

100% of our batteries are reused or recycled.

# Reduce. Renew. Revive. Reuse & Recycle



## SUSTAINABLE BY DESIGN

Unlike most industrial batteries, the Nilar battery chemistry is water-based. Thanks to this it does not contain any cadmium, mercury or lead and only has a minimal amount of hard to recover raw materials.

## PRODUCED IN GÄVLE, SWEDEN WITH 100% FOSSIL-FREE ENERGY

To keep our carbon footprint to a minimum, Nilar batteries are manufactured from cell to system at our fully automated production plant in Gävle, Sweden using 100% clean fossil-free and renewable energy.

## GET THREE BATTERIES IN ONE WITH NILAR REOX®

Nilar batteries are not only rechargeable, they can also be revived to full capacity at least 3 times through the Nilar patented ReOx® process. This brings savings to your wallet, but above all, makes it easy for you to do the right thing for our planet.

## BATTERIES BUILT ON BATTERIES, BUILT ON BATTERIES...

Contributing to a circular economy is part of everything we do, from design to completion and recycling of batteries. The flat cell construction of our batteries is designed to simplify disassembly. This allows for material to be reused and recycled.

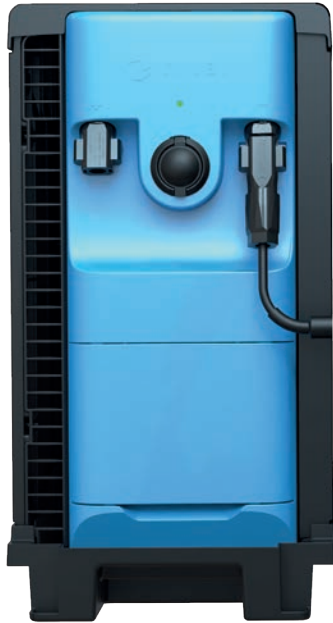
Nilar's batteries are the sustainable choice.



The phasing out of fossil fuels is an important part of the UN's Agenda 2030 and four of the 17 goals are addressed directly by Nilar's solutions. Nilar's goal is to support society's electrification with sustainable solutions. Through efficient energy storage with Nilar batteries, renewable energy can be used when it's needed and not just when it's produced.







The high performance battery  
for today's energy needs



The safest technology  
for you and your home



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good while doing what's best  
for you and the planet

# Nilar ReOx<sup>®</sup> 2 batteries

## The sustainable choice

**Nilar products are compliant with the following directives and regulations:**

- EU-directive 2006/66/EG ('Battery Directive'). The batteries do not contain the heavy metals mercury or cadmium.
- Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU.
- Restrictions of certain hazardous substances according to RoHS Directive 2011/65/EU.
- Nilar products are in compliance with Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and the Restriction of Chemicals (REACH).

VISIT OUR WEBSITE AT [WWW.NILAR.COM](http://WWW.NILAR.COM)

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