

# Powering Residential Homes with High-Performance, Non-Flammable, Sodium-ion Batteries

Safe, Simple Energy Storage. Can Go Where Lithium-Ion Can't.



Homeowners need to lower electricity bills , ensure reliable backup power , and achieve versatile performance —without compromising the safety of their property or pets.

- ➖ Expensive safety add-ons make batteries unaffordable for many.
- ➖ Families and home insurers require batteries that are safe for property, people, and pets
- ➖ Power is needed for diverse needs, from emergency backups to peak demand response.
- ➖ Traditional batteries face performance issues in extreme weather and strict rules on where they can be placed.

## The Alsym Solution: Safety Without Compromise

-  **Unmatched Safety for Families:**  
Alsym's NFPP+ chemistry is non-flammable and safe for people and pets. It eliminates the risk of thermal runaway or dangerous toxic gases.
-  **Extreme Resilience:**  
Stable cell structures maintain performance in temperatures from -40°C to 60°C, ensuring reliability for backup power regardless of climate conditions.
-  **Flexible Siting:**  
Site indoors or outdoors without fire codes or weather constraints dictating the location. Easily place in garages, basements, or utility rooms.
-  **Versatile Performance:**  
High-efficiency cycling supports daily tasks like Time-of-Use savings and VPP participation. Our batteries provide consistent power without the degradation.
-  **Avoid Hidden Costs:**  
Non-flammability lowers costs by removing the need for expensive fire safety and detection equipment.
-  **Secure Supply Chain:**  
Using globally abundant, non-FEOC (Foreign Entity of Concern) sourced materials ensures long-term price stability and protects against geopolitical bottlenecks.

## A Better Battery for Residential



# Optimized for Residential Applications

The Alsym Na-Series helps homeowners access safer, more affordable energy storage that provides reliable power for modern household needs.

## Primary Power Cycling:

Reliable daily cycling provides consistent energy for off-grid homes or high-usage residential properties.

## Extended Backup Power:

Discharge to 0% to keep lights and appliances running longer during grid blackouts. Maximize your usable energy during emergencies without damaging the battery..

## Peak Shaving & VPP:

Shift energy usage to avoid high utility rates and participate in Virtual Power Plant programs. VPP-optimized to lower your monthly bills while supporting the local grid.

## Safe Indoor Storage:

Place your battery in closets or mechanical rooms where lithium-ion is often restricted. Alsym simplifies indoor installations and meets strict fire codes.

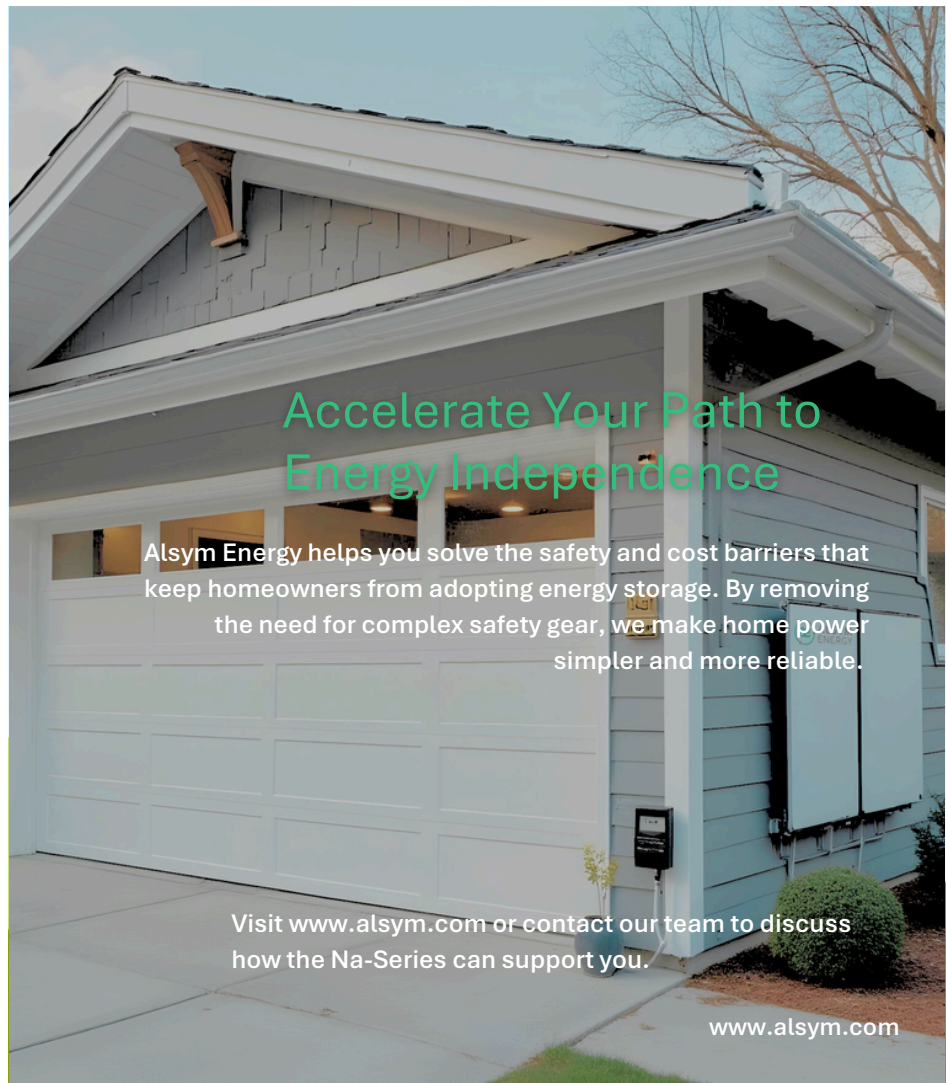
## All-Weather Resilience:

Maintain power during extreme winter storms or summer heatwaves. Wide operating range ensures your backup is ready when the weather is at its worst.



## Na-Series: Technical Overview

Cycle Life	10,000+
Energy Efficiency	95%+ Round Trip Efficiency (RTE)
Duration	1- 100 hour backup
Charge/Discharge	2C - C/100
Operating Range	0% to 100% SoC (no degradation at 0%)
Safety Certs	UL 9540A (pending) & UL 1973 (pending)



Accelerate Your Path to Energy Independence

Alsym Energy helps you solve the safety and cost barriers that keep homeowners from adopting energy storage. By removing the need for complex safety gear, we make home power simpler and more reliable.

Visit [www.alsym.com](http://www.alsym.com) or contact our team to discuss how the Na-Series can support you.

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