

Powering Defense Operations with High-Performance, Non-Flammable, Sodium-ion Batteries

Safe, Stealthy Energy Storage. Deploys Where Lithium-Ion Can't.



Ensuring mission readiness with safe, resilient, and domestically secured energy storage for any environment.

- ➖ Mission readiness requires reliable battery performance in extreme climates without creating a heat signature.
- ➖ Reliance on Foreign Entities of Concern (FEOC) creates strategic weaknesses and undermines mission assurance.
- ➖ Lithium-ion fire and toxicity hazards strictly limit battery placement near personnel or critical infrastructure.
- ➖ Connected battery systems from foreign suppliers can have backdoors that leave secure defense networks vulnerable.

The Alsym Solution: Safety Without Compromise

-  **Extreme Environment Stability:**
Operates reliably from -40°C to 60°C without thermal derating. This removes the need for noisy cooling, ensuring a zero-heat signature for stealth.
-  **Cybersecure Architecture:**
U.S. manufacturing and transparent architecture prevent foreign backdoors. All energy assets remain secure against bad actors and cyber-attacks.
-  **Tactical Siting Flexibility:**
Non-flammable chemistry allows indoor siting without safety setbacks. Deploy in confined bunkers or ships where lithium-ion is prohibited.
-  **Reduced Lifecycle Costs:**
Eliminating auxiliary cooling and fire suppression lowers total ownership costs. High cycle life ensures years of low-maintenance service.
-  **Domestic Security:**
U.S.-made using abundant, non-conflict materials. This eliminates foreign dependency and ensures a secure, long-term supply chain.
-  **Rapid Mission Deployment:**
Safely transport via air or sea at 0% state of charge. Systems allow for immediate deployment and high-voltage commissioning in-field.

A Better Battery for Defense



Optimized for Defense Applications

Alsym Na-Series is a versatile energy asset designed to provide stealthy, secure, and reliable power for modern military missions.

Forward Deployed Power:

Reliable microgrid power for remote bases without dangerous fuel convoys. This increases operational independence and enhances tactical safety.

Critical Infrastructure Backup:

Non-flammable energy storage ensures continuity for command centers and bases. Safe for installation in secure underground bunkers.

Safe Storage & Rapid Deployment:

Transport batteries safely via air and deploy immediately in any climate. Provides instant power for rapid-response tactical teams.

Shipboard Energy Storage:

High-density storage in confined vessel spaces without fire or toxicity risks. This safely supports modern naval weapon systems and sensors.

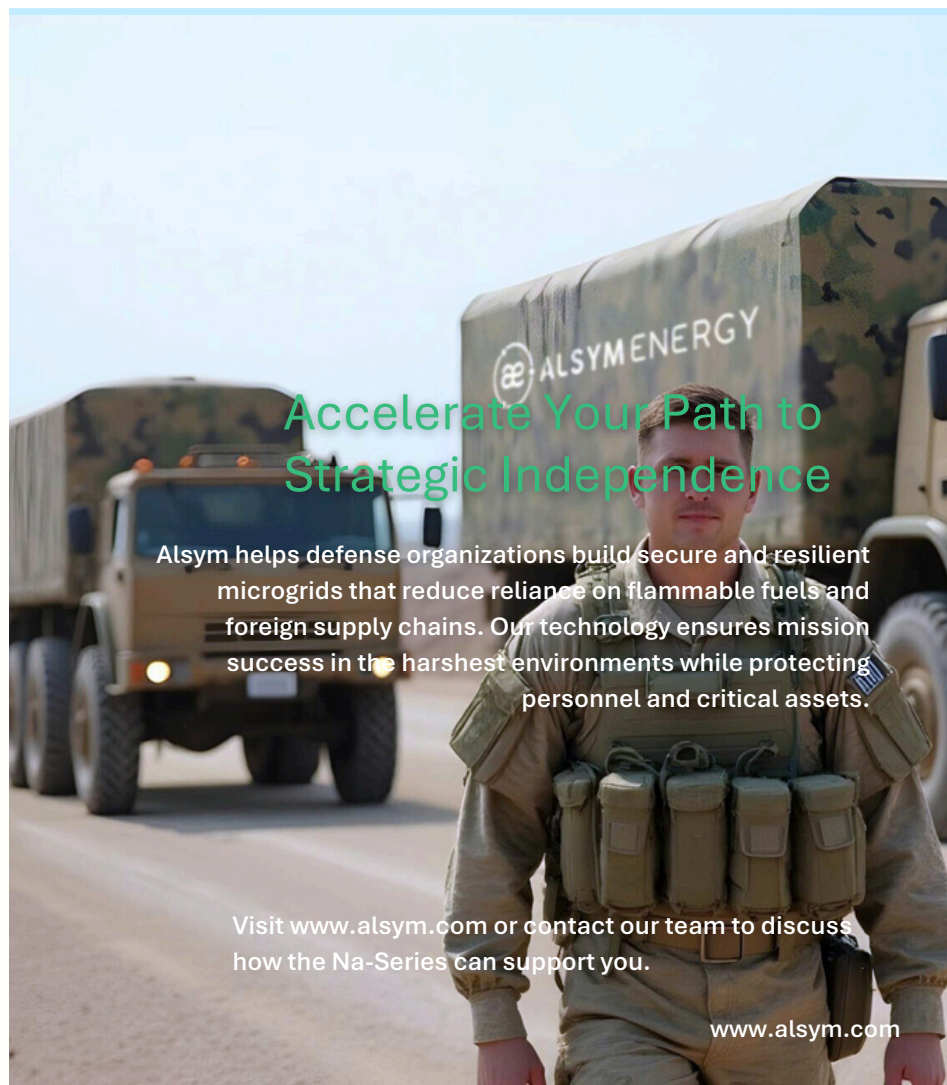
Silent Watch Operations:

Power critical surveillance gear without heat or noise from cooling fans. This maintains stealth during extended electronic system operation.



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 Strategic Independence

Alsym helps defense organizations build secure and resilient microgrids that reduce reliance on flammable fuels and foreign supply chains. Our technology ensures mission success in the harshest environments while protecting personnel and critical assets.

Visit www.alsym.com or contact our team to discuss how the Na-Series can support you.

www.alsym.com