



# STECO GRANIT A Series: Powering Industrial Systems with Advanced Lead-Acid Technology

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### When Reliability Meets Innovation: The GRANIT A Series Advantage

Imagine running a hospital's emergency power system during a blackout, where every second of uninterrupted electricity literally holds lives in balance. This is the real-world scenario where STECO's GRANIT A Series batteries demonstrate their engineering prowess. As part of STECO Group's premium gel lead-acid battery lineup, these 2V industrial powerhouses combine German precision with French engineering flair to deliver exceptional performance in mission-critical applications.

### Core Technical Specifications That Matter

**Voltage & Capacity:** Available in 2V configurations with capacities ranging from 200Ah to 1000Ah (GRANIT A200 to A1000)

**Cycle Life:** 1,500+ deep discharge cycles at 80% DoD - 3x longer than standard AGM batteries

**Temperature Tolerance:** Stable operation from -30°C to +60°C without capacity fade

**Recharge Efficiency:** 95% energy recovery rate with 8-hour fast-charge capability

### Industrial Applications Redefined

Unlike consumer-grade batteries that shy away from tough environments, the GRANIT A Series thrives where others fail. A recent case study at a Siberian mining operation showed these batteries maintaining 92% capacity after 18 months in -25°C conditions - outperforming competitor models by 40%.

### Key Market Segments Served

Telecom infrastructure backup systems

Railway signaling and traction power

Off-grid solar/wind energy storage

Industrial UPS and DC power systems

### The Gel Technology Edge

STECO's proprietary gel electrolyte acts like a molecular sponge - immobilizing the acid while allowing efficient ion transfer. This design eliminates electrolyte stratification issues common in flooded batteries, achieving 99.99% recombination efficiency. Compared to standard VRLA batteries, the GRANIT A Series shows 30% lower internal resistance, enabling higher surge currents when your systems need it most.

### Maintenance Features That Save Costs



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Zero electrolyte top-ups required

3-year water loss warranty

Patented pressure relief valves prevent case deformation

## Global Compliance Meets Local Support

With certifications including IEC 60896-21, UL 1989, and ISO 14001, these batteries meet the strictest international standards. STECO's Chinese service network through Beijing Lusheng Power provides localized technical support - a key differentiator when dealing with complex industrial installations. Their field engineers recently completed a 48-hour emergency battery replacement for a Shanghai metro project without disrupting train schedules.

## Future-Ready Battery Architecture

The modular design allows capacity expansion through parallel connections - a feature that helped a Malaysian data center scale its backup power incrementally as server loads increased. With optional IoT-enabled monitoring modules, operators can now track cell voltages and internal temperatures in real time through SCADA integrations.

Web: <https://www.sphoryzont.edu.pl>