

Serrmi



CUSTOM BATTERY SOLUTIONS

Railroad-focused battery solutions designed for critical backup power, proven in the field with long life, consistent performance, and dependable support.



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WHO WE ARE

Serrmi is a trusted supplier of high-performance signal power and electrical infrastructure components for the rail industry. With a legacy of excellence since 1986, we’ve expanded our offering to include long-life battery solutions built for railroad environments, delivering reliable backup power, low maintenance, and consistent performance.

A. Exclusivity & Experience

- Our products are already deployed in over 7,000 installations with major short lines such as Watco and Genesee & Wyoming.
- Our battery solutions are built on proven cell technology used in demanding, mission-critical environments, where reliability, durability, and predictable performance are non-negotiable.
- We understand the specific operational and environmental needs of railroad signaling infrastructure and design our solutions accordingly.

B. Why Our Batteries Outperform

- Lead-Acid J&A Deep Cycle: Up to 20-year design life, proven in harsh environments, with float/trickle charging and minimal maintenance required.
- NiCd (GAZ Lomain™): Exceptionally stable in extreme temperatures, with a long operational life and virtually no risk of sudden failure.
- Fully compliant with ISO 9001, ISO 14001, and other relevant standards.

C. Logistics & Inventory Strategy

- Serrmi offers inventory floor planning based on customer demand forecasts.
- Lead times are typically 3 months, with proactive stock management for critical projects.

D. Safety & Regulatory Assurance

- Products meet or exceed applicable safety and environmental standards, including 36-hour backup power requirements.
- Safety Data Sheets, recycling guidelines, and regional disposal disclaimers are included.

The Serrmi Advantage

- ✓ Battery solutions engineered specifically for railroad signal backup power
- ✓ Over three decades of experience in railroad signal infrastructure
- ✓ Trusted by major rail clients with thousands of successful deployments
- ✓ U.S.-based support and custom inventory programs

The Serrmi & J&A Connection

J&A Industries is part of the Serrmi organization, bringing decades of experience supporting railroad signal infrastructure with field-proven battery solutions. J&A’s history in signal components and backup power applications helps ensure the batteries we supply are aligned with real-world railroad requirements, not just lab specs. Together, Serrmi and J&A combine manufacturing capability, technical support, and rail-specific know-how to deliver dependable power solutions, responsive service, and consistent product availability.

Your Power Partner in Rail

Serrmi supports rail teams with proven, reliable battery solutions backed by deep railroad signal experience. We help streamline specifications, confirm sizing and compatibility, and support field needs during installation and maintenance. Beyond the product, we work with customers to build inventory strategies that reduce risk on critical projects, including forecast-based stocking and proactive planning for lead times. Our goal is simple: consistent backup power performance, clear communication, and responsive support you can count on.

PAST/CURRENT INDUSTRY USAGE

J&A Signal Batteries: Trusted Performance Across North America

J&A signal batteries are engineered for durability, reliability, and long-lasting performance in the most demanding rail, industrial, and energy environments. With over 7,000 batteries currently in use across North America, J&A has become a trusted name in powering signal systems where failure is not an option. Our batteries support Class I operations, regional railroads, short lines, ports, municipalities, utility providers, and industrial leaders.

Why J&A?

- Proven performance in the field
- Exceptional service life
- Reliable operation in extreme conditions
- Scalable solutions for rail and industrial clients
- Backed by industry expertise and responsive customer support

Expanding Trust Across North America and Beyond

J&A batteries are actively being field tested with Union Pacific Railroad (UP), reflecting our commitment to innovation and meeting the rigorous standards of a Class I network. We are proud to report that BNSF Railway is already using our batteries in their day-to-day operations.

In extreme cold environments, Alaska Railroad Company has deployed J&A batteries to maintain consistent performance under harsh conditions, demonstrating dependable operation in low-temperature climates.

Conversely, our batteries have also proven highly reliable in hotter southern climates. Ferrovial in Mexico uses J&A batteries in challenging high-temperature operating conditions, showcasing their performance versatility across geographic extremes.

In addition, we are proud to partner with Siemens Mobility, a leading global transportation solutions provider. Siemens trusts and integrates J&A batteries into their infrastructure, further validating our quality and alignment with industry leaders.

Who Uses J&A Signal Batteries?

We are proud to serve a broad range of customers, from local terminals to nationally recognized operators. Our clients rely on J&A batteries to support vital switching, signaling, and backup systems.



Delivering excellence in Railroad & Signal products since 1986.

LEAD ACID BATTERIES



J&A's Lead Acid Batteries are available in sizes 250, 300, 400, 500, and 800, providing reliable power solutions for railroad and industrial applications. Engineered for durability and long-lasting performance, these batteries deliver consistent energy with minimal maintenance. With a robust design, they handle various environmental conditions, ensuring efficiency across extended periods of use. Each size offers high-capacity power, making them ideal for demanding applications requiring dependable energy storage and distribution. Trust J&A's Lead Acid Batteries for superior performance in critical rail operations.

	CAPACITY	OPERATING TEMPERATURE	WEIGHT	DIMENSIONS	MAX. DISCHARGE CURRENT (5 SECONDS)
JAB 250	250Ah @ 10hr-rate to 1.80V per cell @77°F	-40°F ~ 140°F	40 lbs.	7"x4.5"x15.25"	1,250Ah
JAB 300	300Ah@10hr-rate to 1.80V per cell @25	-40°F ~ 140°F	35 lbs.	7" x6.1"x13.5"	1,500Ah
JAB 400	400Ah @ 10hr.-rate to 1.80V per cell @68°	-40°F ~ 140°F	62 lbs.	7.125"8.125"x15.25"	2,000Ah
JAB 500	500Ah @ 10hr.-rate to 1.80V per cell @68°	-40°F ~ 140°F	75 lbs.	7.125"x9.875"x15.25"	2,500Ah
JAB 800	800Ah @ 10hr.-rate to 1.80V per cell @68°	-40°F ~ 140°F	94 lbs.	12.25"x7.25"x15.25"	3,500Ah

Ni-Cd BATTERIES



GAZ® Ni-Cd batteries German quality since 1884, offer several key advantages for the railroad industry. They provide long-lasting durability with a service life of up to 20 years, reducing the need for frequent replacements. These batteries perform exceptionally well in extreme temperature conditions, making them reliable in harsh rail environments. Their high reliability ensures a consistent power supply without the risk of sudden failure, and they require minimal maintenance, lowering downtime and costs. Additionally, GAZ® Ni-Cd batteries are safe to recycle and offer a low life-cycle cost, making them a cost-effective solution for long-term use.

-  **Ni-Cd has exceptionally long operational lifetime**
-  **Ni-Cd is the most reliable battery**
-  **Ni-Cd has low life-cycle cost**
-  **Ni-Cd is suited for the use in every sector**
-  **Ni-Cd operates even in relentless temperatures**
-  **Ni-Cd is perfect for most applications**
-  **Ni-Cd can be safely recycled**
-  **Ni-Cd means no risk of sudden failure**

- Gas drying or flame arresting vent
- Safety Terminal
Redundant leak protection minimizes carbonate formation.
- Electrode Edge
Connected to pole bolt by screwing or welding.
- Electrode Frame
Consisting of electrode edge and side bars. Seals the plates and works as a current collector.
- Corrugated perforated plastic seperator or bar seperator
Insulates the plates and allows free circulation of electrolyte.
- Horizontal Pockets
Formed by perforated steel strips containing the active material.
- Distance Plate
Prevents movement of the electrode pack.



Lomain Batteries offer a “less is more” approach, minimizing maintenance costs while maximizing durability and efficiency. With less recharge time and more safety, they provide a cost-effective solution for long-term use. These batteries feature the proven NiCd pocket plate design and the GAZ® Lomain™ concept, ideal for low rates of discharge over extended periods (1 to 100 hours). Suited for infrequent discharges, they excel in applications requiring reliable, long-lasting power. Their lower life cycle costs and high performance make them an exceptional choice for rail and industrial needs.



JA #	CAPACITY	OPERATING TEMPERATURE RANGE*	WEIGHT	DIMENSIONS	MAX. DISCHARGE CURRENT (30 SECONDS)
030116-000	100Ah @10hr.-rate to 1.15V per cell @68°	-4°F ~ 104°F	13.89 lbs.	2.7"x5.3"x14.3"	100Ah
030117-000	175Ah @10hr.-rate to 1.15V per cell @68°	-4°F ~ 104°F	22.93 lbs.	4.3"x6.5"x14.3"	175Ah
030118-000	255Ah @10hr.-rate to 1.15V per cell @68°	-4°F ~ 104°F	24.47 lbs.	4.3"x6.5"x14.3"	255Ah
030119-000	350Ah @10hr.-rate to 1.15V per cell @68°	-4°F ~ 104°F	37.48 lbs.	6.5"x6.2"x14.3"	350Ah
030120-000	420Ah @10hr.-rate to 1.15V per cell @68°	-4°F ~ 104°F	40.79 lbs.	6.5"x6.2"x14.3"	420Ah
030121-000	555Ah @10hr.-rate to 1.15V per cell @68°	-4°F ~ 104°F	62.39 lbs.	6.9"x9.7"x15.0"	555Ah

*short term fluctuations are allowed between -58°F – 158°F

BATTERY PRICING

NiCd

Item ID	Description	List Price
030116-000	BTRY,NiCd,100Ah,ULM,SING,1.2V	\$190.00
030117-000	BTRY,NiCd,175Ah,ULM,SING,1.2V	\$325.00
030118-000	BTRY,NiCd,255Ah,ULM,SING,1.2V	\$410.00
030119-000	BTRY,NiCd,350Ah,ULM,SING,1.2V	\$550.00
030120-000	BTRY,NiCd,420Ah,ULM,SING,1.2V	\$625.00
030121-000	BTRY,NiCd,555Ah,ULM,SING,1.2V	\$808.00

LEAD-ACID

Item ID	Description	List Price
030093-000	BATTERY, JAB-250, VRLA	\$339.00
030094-000	BATTERY, JAB-400, VRLA	\$486.00
030098-000	BATTERY, JAB-500, VRLA	\$518.00
030099-000	BATTERY, JAB-800, VRLA	\$540.00

YOUR POWER PARTNER IN RAIL

Proven Performance. Trusted Technology.

When reliability matters, Serrmi delivers. Through our exclusive partnerships, rail and industrial teams gain access to world-class battery technology rooted in aerospace, defense, and industrial excellence.

Our batteries are deployed across thousands of installations in extreme environments, from the heat of Mexico to the cold of Alaska. Clients include Union Pacific, BNSF, Watco, Genesee & Wyoming, and Alaska Railroad.

We understand your operating conditions. Our solutions are built to match them.

Why Serrmi

- Built for Signal Power**
Engineered specifically for railroad signal backup power with predictable performance and long service life.
- Proven in the Field**
Over 7,000 units in service with a 20-plus year design life and 30 percent longer cycle life.
- Ready for Harsh Conditions**
Ideal for high heat, extreme cold, and bungalows without cooling systems.
- Reliable Fulfillment**
U.S. warehousing with forecast-based inventory and a standard three-month lead time for large orders.
- Credibility That Counts**
Built on proven cell technology used in mission-critical environments where failure is not an option.

Let’s Build Something That Lasts

Serrmi supports rail teams with performance-driven battery solutions and straightforward, responsive support.

If you’re evaluating backup power options, we welcome the opportunity to provide batteries for field testing. Let us demonstrate real-world reliability in your environment and earn your confidence through performance.