

FZSoNick SMC Battery



Sodium Metal Chloride (SMC) batteries are the latest generation of the secondary batteries developed specifically to the constraints of heavy industrial applications. They use metal-based cathode and molten sodium anode to provide exceptionally safe and reliable power backup that is enclosed in the industrial-grade steel case and equipped with integrated battery monitoring. Stable chemical reaction, zero maintenance and insensitivity to temperature and storage aging making them one of the best choices for Oil & Gas, Power Generation, Transmission and Distribution, Communications, Rail and other Industrial use.



FZSoNick
+ -

Eco Friendly



Extreme Temperature



Integrated Monitoring



Recyclable



High Energy Density



No Active Cooling Required



Maintenance Free



No Flammable Gases Emitted



Availability

- Zero self-discharge when stored, at any state of charge
- Zero ageing in floating or storage condition
- Integrated system (BMS) for monitoring, diagnostics and data logging
- Module level redundancy

Operational

- Up to 80% reduction in footprint and 3 times in weight than conventional batteries
- Status LED on front panel
- Low total cost of ownership (TCO)
- Scalable modules in parallel
- Expandable without limitation on battery age
- Parallel operation with other batteries
- Hot swappable
- Boost charging not required
- No memory effect
- Compatible with most industrial AC and DC UPS

Environment

- No active cooling required
- Constant performance and 20 years design life at -20°C to +60°C continuous operation and -40°C to +75°
- Suitable for outdoor installation and marine environment
- Module ingress protection of IP55 and up to IP65
- Free of toxic material and 100% recyclable

Safety

- No gassing or emission
- No risk of explosion even in presence of external fire
- Safest among existing high energy density batteries in all conditions: transport, storage and operation
- Embedded DC protection for load disconnection and short circuit protection
- Ready for remote monitoring
- Double stainless steel case



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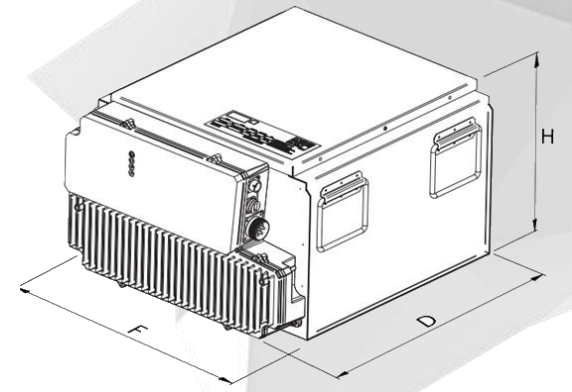


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General Characteristics

| | |
|-----------------------------|---|
| Operating Temperature Range | -20°C / +60°C continuous and -40°C / +75°C peak |
| Storage Duration | Indefinite (-40°C / +60°C) |
| Recharge Time (0-90% SOC) | <7 hours |
| Recharge Time (0-100% SOC) | <12 hours |
| Design Life | 20 years |
| Ingress Protection | IP55 (IP65 as optional) |
| Max Charging Current | Self limited up to 0.2C |
| Short Circuit Current | 6C limited to 100ms |
| Power Connector* | MS3102 to MIL-DTL 5015 Series I |
| Data Connector** | MS3110 to MIL-C-26482 Series I |
| Cycles | > 4500 Cycles at 80% DoD |



| | TEST | CRITERIA | RESULTS |
|---------------------|----------------------------|--|--|
| ENVIRONMENTAL TESTS | Salt water immersion | Fully operative and energized battery is submerged for 3h into salt water. No tracking or conductivity was observed. | ✓ No explosion ✓ Case without break |
| | Fire exposure | Battery is exposed for 30 mins to petrol fire | ✓ No explosion ✓ No fire growth |
| | Seismic and vibration test | Seismic and vibrational test carried out on storage systems | ✓ No explosion ✓ No fire |

Manufactured in Switzerland

A country strongly committed to sustainable development

Recycling output: 69% Metals

Recycling output: 30% Slag

Process in place since 2001

No additional costs for recycling

FZSoNick Manufacturing

- Made in Switzerland
- ISO 9001 – Quality Management System
- ISO 14001 – Environmental Management System

Applicable Standards

- EN 61000-6-2 / EN 6100-6-4
- CE
- UL9540A (Safety)
- Design to comply with UL1973 ed.2
- IEC62984 / IEC60529

ANY PROJECT. ANYWHERE.



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