



Sodium Ion UPS Battery

Salt Vault High Power Cabinet

Safer, scalable energy storage with Salt Vault Sodium-Ion batteries

Integrated battery packs engineered for mission-critical UPS applications

- Ready for AI Electrical Loads
- 10,000 deep discharge cycles
- Wide temperature operating range
- Designed for data centers, behind-the-meter grid storage, and mission critical applications
- No thermal runaway for Sodium Chromium Oxide (NaCrO_2) batteries



Built for mission-critical UPS

- Grid-scale energy storage
- Commercial and industrial ESS
- Renewable energy integration
- Microgrids and backup power systems

Rack-ready sodium-ion UPS battery for critical infrastructure

System Specification:

CHEMISTRY	UNIGRID 70Ah Na-Ion
VOLTAGE	522VDC (Min: 360V, Max: 612V)
CAPACITY	73.08 kWh
DISCHARGE CURRENT	350A (Half Rack) 700A (Full Rack)
CHARGE CURRENT	140A
RACK HEIGHT	48U
DIMENSIONS	(25.3" x 23" x 90") LxWxH 643 x 584 x 2286 mm
WEIGHT	680 kg (1500 lbs)
CYCLE LIFE	10k Cycles @ standard charge/discharge currents
COOLING METHOD	Air Cooled
COMMUNICATION	RS485, Ethernet, Modbus
CONFIGURABILITY	12 modules per rack
CERTIFICATIONS PROVIDED	UL9540, UL9540A, UL1973 UN38.3



Design Benefits

UPS Compatibility

Designed for seamless integration with a wide range of uninterruptible power supply (UPS) systems, the platform supports standard DC bus architectures and can be deployed across multiple UPS manufacturers without requiring system-level redesign.

Power Connection and Frame Integration

The system utilizes a frame-integrated power distribution architecture designed for safe, scalable, and low-resistance electrical interconnection between modules and external systems.

Each module interfaces directly with a common DC bus structure embedded within the rack frame. This eliminates the need for external cabling between modules and ensures consistent electrical performance across the system.

Service-Friendly Layout

All key touchpoints are positioned for quick access, minimizing service time and eliminating the need for specialized tools or rear-side intervention.



Enabling rapid service operations while maintaining consistent system performance and uptime.

More Power. More Energy. Proper Voltage.



Benchmarked against the incumbent tier 1 LFP system, our Salt Vault delivers significantly higher power and energy density per rack, giving customers more capability in less space, with fewer failure points.

Per-rack Comparison

Our Technology

Proper Voltage Salt Vault

365 kW

Power per rack

73 kWh

Energy per rack

12 modules

Modules per rack

Incumbent Technology

Incumbent Tier 1 LFP

184 kW

Power per rack

34.6 kWh

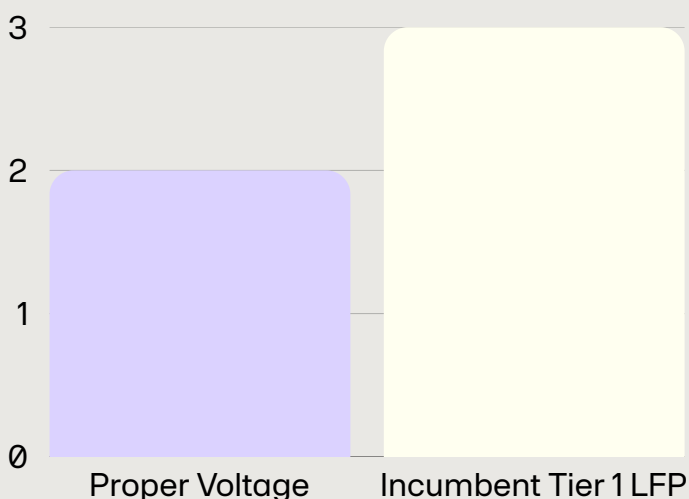
Energy per rack

17 modules

Modules per rack

59% more power per rack. 111% more energy per rack.

Racks Required for a 500 kW Deployment



- Data centers and mission-critical facilities pay a premium for floor space, denser storage directly reduces infrastructure cost and build-out complexity.
- Fewer racks to deploy and manage means faster installation, lower maintenance overhead, and reduced system integration risk.



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