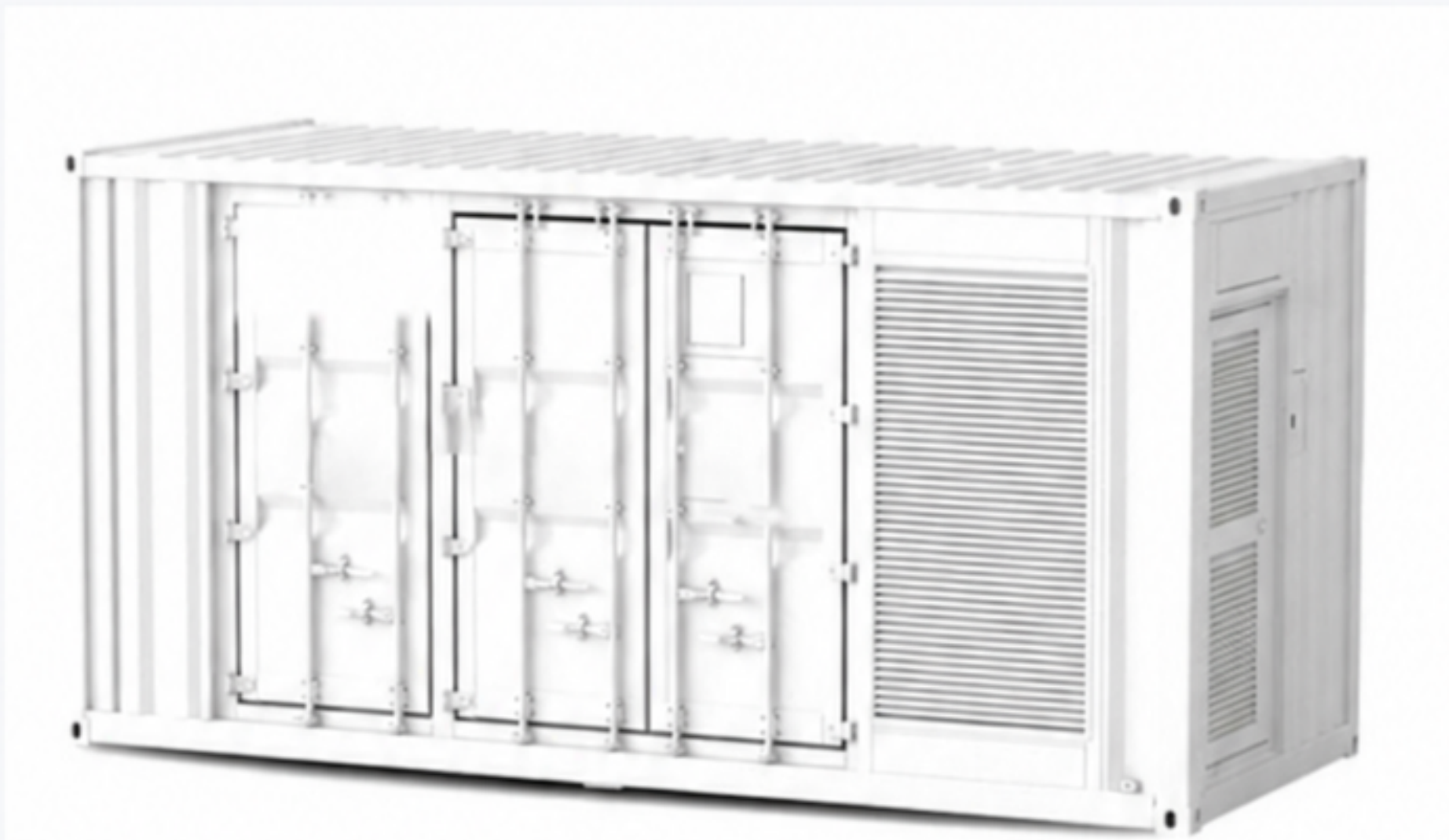


2.42 MWh Sodium-Ion Liquid-Cooled BESS Container

Complete turnkey DC energy storage cabinet for high-safety, high-density stationary storage projects.



2.42 MWh

Marketed system capacity

624-1435.2

DC operating voltage range

20-ft HC

6058 x 2438 x 2896 mm footprint

25 years

Designed service life

Quotation scope

Complete turnkey DC energy storage cabinet. Includes battery modules, battery packs, fire protection, liquid thermal management, auxiliary systems, BMS / EMS and containerized enclosure. PCS / voltage boosting cabin and customer EMS integration are configured by project interfaces.

Liquid-cooled

Sodium-Ion

High-voltage DC

Project-specific interfaces

Integrated DC Cabinet Design

A standardized 20-ft high container integrating sodium-ion battery clusters, liquid cooling, fire protection, monitoring and control systems into a modular DC energy storage platform.

Core configuration

- 12 liquid-cooled battery clusters
- 96 battery modules with 1P52S configuration
- Each cluster: 8 PACKs connected in series
- 2.85 V / 170 Ah sodium-ion cell platform
- BMS / EMS management system with real-time monitoring



Front-view container visual

Technology highlights

Liquid thermal management

40 kW liquid-cooled unit plus 1.5 kW dehumidifying air conditioner to regulate battery temperature and humidity.

Fourfold safety concept

PACK-level and cluster-level detection and spraying, passive gas suppression and water-based suppression system.

Modular serviceability

Front-access high-voltage boxes, MSDs, sensors and auxiliary systems for simplified installation, inspection and maintenance.

Typical applications

Renewable energy integration, C&I peak shaving, utility-scale storage, microgrids, grid support and long-duration stationary storage projects.

Project interface note

DC cabinet supplied as turnkey battery container. PCS, transformer, voltage boosting cabin and customer EMS integration are aligned by project.

Technical Data

Key technical parameters for the 2.42 MWh sodium-ion liquid-cooled DC cabinet. Final interfaces and project-specific configuration to be confirmed during quotation and engineering review.

Parameter	Value
Marketed capacity	2.42 MWh
Cell platform	2.85 V / 170 Ah sodium-ion
Battery assembly	1P416S per cluster
Nominal system voltage	1189.7 V
DC voltage range	624 - 1435.2 V
Standard charge / discharge	0.5 C / 0.5 C
Charge temperature	0°C to 55°C
Discharge temperature	-40°C to 60°C
Storage temperature	-20°C to 40°C
Heat dissipation	Liquid cooling, cell delta <= 3°C
Communication	CAN, RS485, TCP/IP
Fire protection	Automatic fire extinguishing system
Protection level	IP54
Noise	75 dB @ 1 m
Dimensions	6058 x 2438 x 2896 mm
Weight	<= 43 t estimated
Corrosion grade	C3
Cycle life reference	>= 8,000 cycles @ 0.5 C

Certification & documentation references

Mentioned for commercial and technical discussions; final certificate scope and customer documentation package to be confirmed for the project and shipment configuration.

[UN38.3](#)[MSDS / SDS](#)[UL9540A](#)[IEC 62619](#)[CE](#)

AuroraCell - Sodium-Ion BESS Solutions

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