

NoahX-1500/5015-L2-EU

Energetic Liquid Cooling Battery Energy Storage Container

(EU Version)



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Overview

NoahX-1500/5015-L2-EU Energetic liquid cooling battery energy storage system is a container level system rated at 2.5MW/5.015MWh in terms of power and energy. The container adopts Sunwoda self-developed high energy density liquid cooling battery PACK, suitable for accessing to centralized or distributed power conversion system (PCS). It can be configured in the power generation end, transmission& distribution end and user end, used to expand the capacity of the power supply system, to help improve the grid power quality and improve the reliability of power supply.

The system is a 20-foot standard container containing 12 LFP battery clusters, thermal control system, fire protection system, grounding system and on-site monitoring system. It adopts a compartmentalized design: battery PACK, high voltage box, and supporting fire components and liquid cooling system pipe network are placed in the battery cabinet; while the equipment cabinet houses the DC distribution unit, auxiliary power module, monitoring module, chiller, and fire supervision system.

Multiple liquid cooling pipes are set up inside to achieve the best cooling effect;

Cabinet level aerosol and water FSS dual fire protection design;

Set the explosion vent to ensure the safe operation of the system;

Single-sided external maintenance for easy operation and maintenance.

Data sheet

No.	Items		Specification	Remarks
1	Nominal Energy		5015kWh	DC side
2	Rated Charging Power		2500kW	DC side (0.5P)
3	Rated Discharge Power		2500kW	DC side (0.5P)
4	DC Voltage Range		1164.8V~1497.6VDC	2.8-3.6 VDC
5	Operating Temperature Range		-30℃~55℃	/
6	Storage Ambient Temperature Range		-30℃~60℃	/
7	Operating Relative Humidity		5~95%	No condensation
8	Storage Relative Humidity		5~95%	No condensation
9	Operating Altitude		≤3000m	/
10	Noise		≤85dB	Test on 1m away container & 1.5m above ground level
11	Ingress Protection		IP55	/
12	Dimension (W*D*H)		6058*2438*2896mm	/
13	Weight		<45t	/
14	Container Port	DC Power Output port	6 Channels	DC side
		Auxiliary Power Supply Port	1 Channel	400VAC,50Hz,3P4W
		Grounding Port	4 Channels	/
		Communication Port	Dry Contacts/ CAN/ Ethernet	/
15	Transportation		Land/sea transportation	/
16	Cooling Method		Liquid Cooling	/
17	Fire Fighting Method		Aerosol/ Water FSS	Cabinet level