

4.5 MWh | Immersion-Cooled Battery Container

Utility storage • Immersion cooling • LFP

High-capacity battery container with flow immersion cooling and configurable safety monitoring for utility-scale storage projects.



Reference model: KBS-H-DI4700

ROCAS product illustration. Final appearance depends on the selected configuration.

SYSTEM PARAMETERS

Rated capacity	4.5 MWh
Battery voltage range	1,000–1,500 V
Battery type	LFP; 3.2 V / 587 Ah
Cycle lifespan	10,000 (test conditions not specified)
Module grouping	1P104S
Battery module	332.8 V / 195.35 kWh
Cluster grouping	4 × 1P104S
System composition	6 × 1P416S
Voltage sampling ratio	1:1
Temperature sampling ratio	1:2, optional
BMS balancing	Active balancing, optional
Thermal management	Flow immersion liquid cooling
Cell temperature difference	≤2°C (catalog claim)
Fire suppression	Active early warning + PACK coolant + PACK-level special gas + container-level gas + water-based system (optional)

GENERAL DATA

IP rating	IP54
Noise	<80 dB
Operating temperature	-35 to +50°C
Relative humidity	0–95%, non-condensing
Weight	≤44 t
Communication protocols	Modbus TCP / TCP/IP / CAN / RS485
Dimensions L × D × H	6,058 × 2,438 × 2,896 mm
Listed standards	IEC 62619; IEC 61000; UN 38.3
Rated power	Not specified in catalog

Specifications follow the newly supplied 4.5 MWh product sheet. Source model code KBS-H-DI4700 is retained. Rated power and cycle-life test conditions are not specified.

Listed standards are source references; model-specific conformity documentation must match the delivered configuration.