

CONTAINER SOLUTIONS



5.016MWh

LIQUID-COOLED ENERGY STORAGE SYSTEM

Liquid-cooled energy storage system using prismatic LFP ESS Cells 314Ah with high cycle lifetime.

Improved safety characteristics specifically optimised for the highest requirements on safety, reliability and performance. Suitable for industrial, utility, and grid serving applications.

- + **Product certifications and compliance:**
IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855, UN 38.3
- + **Company certifications:**
ISO 9001, ISO 14001, ISO 45001, SA 8000
- + **Environmental compliance:**
RoHS, REACH, Cobalt free
- + **Eco-friendly:**
New type of eco-friendly refrigerant, high recyclability.
- + **Flexible solution:**
String or central PCS compatible.
- + **Superior cycle life:**
9,125 Cycles at 100% DOD with 70% SOH at EOL

HIGH SAFETY

- + High thermal stability from innovative liquid cooling design.
- + Multi-stage, active fire detection and protection system, compliance to NFPA 855.
- + 3-level BMS for cell and system monitoring and protection.

LOW LCOS (LEVELISED COST OF STORAGE)

- + High cycle life and low auxiliary consumption due to excellent thermal management improves energy throughput by ensuring optimal operating temperature.
- + Highly integrated: including thermal management system, fire protection system, BMS, etc.
- + Supports back to back and side by side installations.



**ON-SITE COMMISSIONING +
TECHNICAL SUPPORT**



**REMOTE MONITORING +
MANAGEMENT**



**PRECISION
LIQUID COOLING**



**INTELLIGENT FIRE
SUPPRESSION SYSTEM**

TECHNICAL DATA

GENERAL

SPECIFICATIONS

Configuration	6*2P416S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric ED	≥ 125Wh/kg
Volumetric ED	≥ 117Wh/L
Application Altitude	≤ 4.000m

ELECTRICAL

Nominal Voltage	1.331,2V
Operating Voltage	1.040V ... 1.500V
Nominal Energy	5.016kWh ^{1,2}
Nominal SOC at Delivery	27% ²
Nominal Charge/Discharge Rate	0,5P/0,5P
Round Trip Efficiency	≥ 94% ^{1,2}

MECHANICAL

Dimensions (L x W x H)	6.058 x 2.438 x 2.896mm
Maximum Weight	40.000kg
Protection Level	IP55

TEMPERATURE RANGE

Operating	-30°C ... 55°C ³
Storing (Recommended)	-20°C ... 35°C ³

PRODUCT CERTIFICATIONS AND COMPLIANCE

Certificates, Report and Compliance	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855
Safe Transportation	UN 38.3
Corrosion Rating	C5-M (Marine Grade)

ENVIRONMENTAL

Compliance	RoHS, REACH, Cobalt free
Battery Regulation (EU)	2023/1542

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001, SA 8000

¹ 0,5P/0,5P

² 25°C +/- 2°C

³ Ambient temperature