

6.25 MWh 4h

Liquid-cooled energy storage system



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

- Product certifications and compliance*:
UL 1973, UL 9540A, UL 9540, NFPA 855, UN 38.3
- Company certifications:
ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental compliance*:
RoHS, REACH, Cobalt free
- Eco-friendly:
Low noise, new type of eco-friendly refrigerant, high recyclability.
- Flexible solution:
String or central PCS compatible.

High safety

- Specialized flame retardant module top cover.
- High thermal stability thanks to innovated 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 cyclic life and low auxiliary consumption due to excellent thermal management improve 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.

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Liquid-cooled energy storage system based on prismatic LFP cells with very high cyclic lifetime



GENERAL

Configuration	4*1P416S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric ED	$\geq 130 \text{ Wh/kg}$ ($\geq 59 \text{ Wh/lb}$)
Volumetric ED	$\geq 145 \text{ Wh/L}$ ($\geq 549 \text{ Wh/gal}$)
Application Altitude	$\leq 4,000 \text{ m}$ ($\leq 13,123 \text{ ft}$)

ELECTRICAL

Nominal Voltage	1,331.2 V
Operating Voltage	1,040 ... 1,500V
Nominal Energy	6,250 kWh ^{1,2}
Nominal SOC at Delivery	27 % ²
Nominal Charge/Discharge Rate	0.25 P / 0.25 P
Round Trip Efficiency	$\geq 95 \%$ ^{1,2}

¹ 0.25 P / 0.25 P

² 25 °C +/- 2 °C
(73.4 °F ... 80.6 °F)

³ ambient temperature

* In progress

MECHANICAL

Dimensions (L x W x H)	6,058 x 2,438 x 2,896 mm (238 ½ x 96 x 114 in)
Maximum Weight	48,000 kg (105,822 lb)
Protection Level	IP 55

TEMPERATURE RANGE

Operating	-30 °C ... 55 °C ³ (-22 °F...131 °F ³)
Storing (Recommended)	-20 °C ... 35 °C ³ (-4 °F...95 °F ³)

PRODUCT CERTIFICATIONS AND COMPLIANCE*

Certificates and Compliance	UL 1973, UL 9540A, UL 9540, NFPA 855
Safe Transportation	UN 38.3

ENVIRONMENTAL*

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

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001,
ISO 45001, SA 8000