

∞Power

6.25 MWh 2h

Liquid-cooled energy storage system



Preliminary

Liquid-cooled energy storage system based on HiTHIUM prismatic LFP ESS Cells 587 Ah with high cyclic lifetime.

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:
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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GENERAL

Configuration	8*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	0.5 P / 0.5 P
Round Trip Efficiency	$\geq 94 \%$ ^{1,2}

¹ 0.5 P / 0.5 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, Report 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

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