

ESS Container

6.25 MWh

Liquid-cooled energy storage system



Preliminary

Liquid-cooled energy storage system based on HiTHIUM prismatic LFP ESS Cells 1175 Ah with high cyclic lifetime.

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

- Product certifications*:
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

High safety

- Specialized flame retardant top cover.
- High thermal stability thanks to liquid cooling.
- Multi-stage, active fire protection system, compliance to NFPA 855.
- Use of highly safe prismatic HiTHIUM LFP cells.
- Dedicated cell monitoring and protection system.

Low LCOS (Levelised Cost of Storage)

- Eco-friendly: low noise, new type of eco-friendly refrigerant, high recyclability.
- 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.
- High PCS compatibility: string or central PCS compatible.

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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	≥ 130 Wh/kg
Volumetric ED	≥ 145 Wh/L
Application Altitude	≤ 4,000 m

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	≥ 95 %

¹ 0.25 P / 0.25 P

² 25°C +/- 2.0

³ ambient temperature

* The certifications are in-progress.

MECHANICAL

Dimensions (L x W x H)	6,058 x 2,438 x 2,896 mm
Weight	≤ 48,000 kg
Protection Level	IP 55

TEMPERATURE RANGE

Operating	-30 °C ... 60 °C ³
Storing (Recommended)	-20 °C ... 35 °C ³

PRODUCT CERTIFICATIONS*

Certificates and Reports	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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