

BESS Container

5.015 MWh

Liquid-cooled battery storage system



Preliminary

Liquid-cooled battery storage system based on HiTHIUM prismatic LFP BESS Cells 314 Ah with very 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:
IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, UN 38.3
- Company certifications:
ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental Compliance:
RoHS, REACH, Cobalt free

High safety

- 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)

- 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

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



GENERAL	
Battery Type	HiTHIUM LFP314-2P52S
No. of Battery Modules	48 (6 x 8)
Configuration	12P416S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric	≥ 119 Wh/kg
Volumetric	≥ 117 Wh/l
Application Altitude	≤ 4,000 m

ELECTRICAL	
Nominal Voltage Container	1,331.2 V
Operating Voltage Container	1123.2 ... 1497.6V
Nominal Energy Container	5,015.96 kWh ^{1, 2}
Nominal SOC at delivery	27 % ²
Nominal Charge/Discharge Rate	0.5 P / 0.5 P
Round Trip Efficiency	> 94 %

¹ 0.5 P / 0.5 P
² 25°C +/- 2.0
³ ambient temperature

MECHANICAL	
Dimensions (L x W x H)	6,058 x 2,438 x 2,896 mm
Weight Container (20 ft.)	< 42,000 kg
Protection Level	IP 55

TEMPERATURE RANGE	
Operating	-30 °C ... 55 °C ³
Storing (recommended)	-20 °C ... 35 °C ³

PRODUCT CERTIFICATIONS	
Certificates and Reports	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855
Safe Transportation	UN 38.3

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

COMPANY CERTIFICATIONS	
ISO 9001, ISO 14001, ISO 45001, SA 8000	

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