

BESS **Container**

3.44 MWh

Liquid-cooled battery storage system



Liquid-cooled battery storage system based on HiTHIUM prismatic LFP BESS Cells 280 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:
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
- Environmental Compliance:
ROHS, REACH

High safety

- High thermal stability thanks to liquid cooling
- Multi-stage, active fire protection system
- Use of highly safe prismatic HiTHIUM LFP cells
- Multi-stage, active fire protection system, compliance to NFPA855

Low LCOS (Levelised Cost of Storage)

- Excellent thermal management improves energy throughput by ensuring optimal operating temperature
- High energy density
- Highly integrated: including thermal management system, fire protection system, BMS, etc.

BESS Container

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



GENERAL

Battery Type	HiTHIUM LFP2801P48S
No. of Battery Modules	80 (10 x 8)
Configuration	10P384S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric	> 101 Wh/kg
Volumetric	> 80 Wh/l
Application Altitude	≤ 3,000 m

ELECTRICAL

Nominal Voltage Container	1,228.8 V
Operating Voltage Container	T > 0 °C 960 ... 1,401.6 V
	T ≤ 0 °C 768 ... 1,401.6 V
Nominal Energy Container	3,440.64 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.)	< 34,000 kg
Protection Level	IP 54

TEMPERATURE RANGE

Operating	-30 °C ... 50 °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, UN 38.3
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ENVIRONMENTAL

Compliance	ROHS, REACH Cobalt free
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COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

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