

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 highest 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
- Environmental Compliance:
ROHS, REACH

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

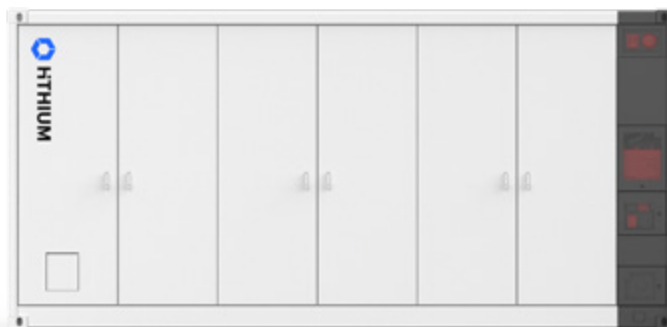
Low LCOS (Levelised Cost of Storage)

- Excellent thermal management improves energy throughput by ensuring optimal operating temperature
- Highly integrated: including thermal management system, fire protection system, BMS, etc.
- Very high energy density using dual channel compact module technology (DCCM)
- 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) with DCCM Technology
Configuration	12P416S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric	> 111 Wh/kg
Volumetric	> 117 Wh/l
Application Altitude	≤ 4.000 m

ELECTRICAL

Nominal Voltage Container	1.331,2 V
Operating Voltage Container	1.040 ... 1.497,6 V
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.)	< 45.000 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, UN 38.3
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ENVIRONMENTAL

Compliance	ROHS, REACH
	Cobalt free

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

HiTHIUM Energy Storage Technology Deutschland GmbH

Website: <https://hithium.com> | Email: Contact@hithium.de

Address: Landsberger Str. 155, 80687 Munich, Germany

Xiamen HiTHIUM Energy Storage Technology Co., Ltd.

Address: HiTHIUM Industrial Park, Tongxiang High-Tech Zone,
Xiamen, Fujian, China | Email: hithium@hithium.com



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