

BESS **Cabinet** 368 kWh

Liquid-cooled battery storage system



Liquid-cooled battery storage system based on HiTHIUM prismatic LFP BESS Cells 300 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, 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 NFPA855
- Use of highly safe prismatic HiTHIUM LFP cells
- Ultra-wide operating temperature range

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 Cabinet

368 kWh

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GENERAL

Battery Type	HiTHIUM LFP300-1P48S
No. of Battery Modules	4 ... 8
Configuration	1P384S
Cooling Method	Liquid cooling
BMS Communication	CAN
Gravimetric	> 102 Wh/kg ¹
Volumetric	> 93 Wh/l ¹
Application Altitude	≤ 3.000 m

ELECTRICAL

Nominal Voltage Cabinet	1.228,8 V ¹
Operating Voltage Cabinet	T > 0 °C 960 ... 1.401,6 V ¹
	T ≤ 0 °C 768 ... 1.401,6 V ¹
Operating Voltage Module	T > 0 °C 120 ... 175,2 V ¹
	T ≤ 0 °C 96 ... 175,2 V ¹
Nominal Energy Cabinet	368,6 kWh ^{1,2,3}
Nominal Energy Module	46,1 kWh ^{2,3}
Nominal SOC at delivery	27 % ³
Nominal Charge/Discharge Rate	0,5 P / 0,5 P
Round Trip Efficiency	> 94 %

¹ 8 modules

² 0,5 P / 0,5 P

³ 25°C +/- 2,0

⁴ ambient temperature

MECHANICAL

Dimensions (L x W x H)	1.300 x 1.300 x 2.350 mm
Weight Cabinet	< 3.610 kg ¹
Weight Battery Module	330 kg
Protection Level	IP 55

TEMPERATURE RANGE

Operating	-30 °C ... 50 °C ⁴
Storing (recommended)	-20 °C ... 35 °C ⁴

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

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