



BESS Container

5,016 MWh

Liquid-cooled battery storage system based on prismatic LFP ESS cells 314 Ah with high cyclic lifetime

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

- Product certifications:
IEC 62619, IEC 62477, IEC 63056, IEC 61000, IEC 62933-5-2, UL 1973, UL 9540A, NFPA 855 (NFPA 68, NFPA 69, NFPA 70E, NFPA 72), UN 38.3
- Environmental Compliance:
ROHS, REACH, Cobalt free

High safety

- High thermal stability thanks to liquid cooling
- Multi-stage, active fire protection system
- Use of highly safe prismatic 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.

GENERAL

Container Configuration	6x2P416S
Pack Configuration	2P52S
No. of Battery Pack	48
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric	> 125 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	5.016 kWh ^{1,2}
Nominal SOC at delivery	27 % ²
Nominal Charge/Discharge Rate	0,5 P / 0,5 P
Round Trip Efficiency	> 94 %

MECHANICAL

Dimensions (L x W x H)	6.058 x 2.438 x 2.896 mm
Weight Container	< 40.000 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, IEC 62933-5-2, UL 9540A, NFPA 855 (NFPA 68, NFPA 69, NFPA 70E, NFPA 72), UN 38.3
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ENVIRONMENTAL

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

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

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