

ESS Container 3,99 MWh

Liquid-cooled battery storage system



Preliminary

Liquid-cooled battery storage system based on Hithium prismatic LFP ESS Cells 300 Ah with highest cyclic lifetime.

Improved safety characteristics and specially optimised for the highest demands 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

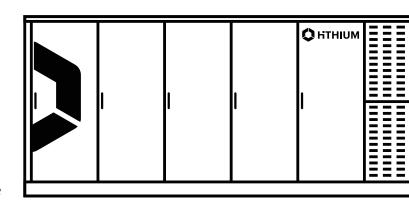
- High thermal stability thanks to liquid cooling
- Multi-stage, active fire protection system
- Use of highly safe prismatic HiTHIUM LFP cells
- Ultra-wide operating temperature range

Low LCOS (Levelised Cost of Storage)

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

ESS **Container** 3,99 MWh

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



GENERAL		
Battery Type	Hithium LFP3001P52S	
No. of Battery Modules	80 (10 x 8)	
Configuration	10P416S	
Cooling Method	Liquid Cooling	
BMS Communication	CAN, RS485, Ethernet	
Gravimetric	> 109 Wh/kg	
Volumetric	> 93 Wh/l	
Application Altitude	≤ 4.000 m	

ELECTRICAL	
Nominal Voltage Container	1.331,2 V
Operating Voltage Container	T > 0 °C 1040 1497,6 V
	T ≤ 0 °C 832 1497,6 V
Nominal Energy Container	3.993,6 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	amhient temperature

MECHANICAL	
Dimensions (L x W x H)	6.058 x 2.438 x 2.896 mm
Weight Container (20 ft.)	< 36.500 kg
Protection Level	IP 54

TEMPERATURE RANGE	
Operating	-30 °C 50 °C ³
Storing (recommended)	-20 °C 35 °C ³

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Certificates and Reports IEC 62619, IEC 62477, IEC 63056, IEC 61000

IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855, UN 38.3

ENVIRONMENTAL		
Compliance	ROHS, REACH	
	Cobalt free	

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

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