

Fusio 3.44MWh



Liquid-Cooling Battery Energy Storage System 20ft Container



Liquid-cooled battery storage system based on prismatic LFP ESS Cells 280 Ah with the highest cyclic lifetime

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

- Product Compliance:
IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855, UN 38.3
- Company Certifications:
ISO 9001, ISO 14001, ISO 27001
- Environmental Compliance:
RoHS, REACH



High Safety

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



Low LCOS (Levelized 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.



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System Specification

Model Type		Fusio 3.44 MWh
General Specifications		
Battery Type	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	960 ~ 1,401.6 V	
Nominal Energy Container	3,440.64 kWh ^{*1,2}	
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 (20 ft.)	< 34,000 kg	
Protection Level	IP55	
Temperature Range		
Operating	-30 °C ~ 50 °C ^{*3}	
Storing (recommended)	-20 °C ~ 35 °C ^{*3}	
Compliance Standards	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855, UN 38.3 RoHS, REACH, Cobalt free	

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

Exploded Diagram

