

Pack 195 kWh 4h

Liquid-cooled ESS module based on prismatic LFP cells



Liquid-cooled ESS module based on HiTHIUM prismatic LFP ESS Cell 1175 Ah with very high cyclic lifetime.

Specially optimised for use in stationary battery storage systems with the highest requirements on safety, reliability and performance. Suitable e.g. for C&I, utility, grid serving applications.

- Product certifications*:
IEC 62619, UL 1973, UL 9540A, UN 38.3
- Company certifications:
ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental compliance*:
RoHS, REACH, Cobalt free

High safety

- Specialized flame retardant top cover.
- Based on HiTHIUM ESS 1175 Ah prismatic LFP cell with high thermal stability
- Optimal operating temperature due to liquid cooling

Low LCOS (Levelised Cost of Storage)

- Very high cyclic lifetime thanks to advanced material and process technologies
- Excellent thermal management improves energy throughput by ensuring optimal operating temperature

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Liquid-cooled ESS module based on prismatic LFP cells with high cyclic lifetime



GENERAL	
Configuration	1P52S
Cooling Method	Liquid Cooling
Coolant	Glycol-Water Coolant Solution
Gravimetric ED	~170 Wh/kg (~77 Wh/lb)
Volumetric ED	~274 Wh/L (~1,038 Wh/gal)
Application Altitude	≤4,000 m (≤13,123 ft)

ELECTRICAL	
Nominal Voltage	166.4 V
Operating Voltage	130 V ... 189.8 V 0 °C < T ≤ 60 °C ¹ (32 °F < T ≤ 140 °F)
	104 V ... 189.8 V -30 °C < T ≤ 0 °C ¹ (-22 °F < T ≤ 32 °F)
Nominal Energy	195.5 kWh ^{2,3}
Nominal SOC at Delivery	27 % ³
Nom. Charge / Discharge Rate	0.25 P / 0.25 P ³

¹ cell temperature

² 0.25 P / 0.25 P

³ 25 °C +/- 2.0 °C
(73.4 °F ... 80.6 °F)

⁴ ambient temperature

* in progress

MECHANICAL	
Dimensions (W x D x H)	1,248 x 2,240 x 255 mm (49.1 x 88.2 x 10.0 in)
Weight	1,150 kg ± 3% (2459.26 lb ... 2611.38 lb)
Protection Level	IP 67

TEMPERATURE RANGE	
Discharge (Cell)	-30 °C ... 60 °C ¹ (-22 °F ... 140 °F)
Charge (Cell)	0 °C ... 60 °C ¹ (32 °F ... 140 °F)
Storing (Recommended)	-20 °C ... 35 °C ⁴ (-4 °F ... 95 °F)

PRODUCT CERTIFICATIONS	
Certificates and Reports	IEC 62619, UL 1973, UL 9540A
Safe Transportation	UN 38.3

ENVIRONMENTAL*	
Compliance	RoHS, REACH, Cobalt free
Battery Regulation (EU)	2023/1542

COMPANY CERTIFICATIONS	
	ISO 9001, ISO 14001, ISO 45001, SA 8000

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