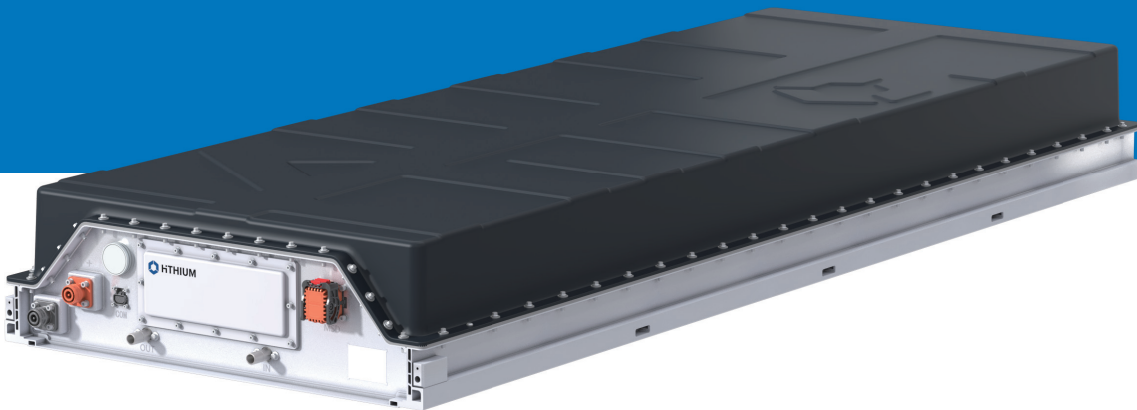


ESS **Module** 104 kWh

Liquid-cooled ESS module based on prismatic LFP cells



Liquid-cooled ESS module based on HiTHIUM prismatic LFP ESS Cell 314 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 applications.

- Product certifications:
IEC 62619 (cell level), 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

- Based on HiTHIUM ESS 314 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

ESS **Module** 104 kWh

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



GENERAL

Configuration	2P52S
Cooling Method	Liquid Cooling
Coolant	Glycol-Water Coolant Solution
Gravimetric ED	≥ 156 Wh/kg (≥70.8 Wh/lbs)
Volumetric ED	≥ 244 Wh/L (≥923.6 Wh/gal)
Application Altitude	≤ 4,000 m (≤13123 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	104.5 kWh ^{2,3}
Nominal SOC at delivery	27 % ³
Nominal Charge / Discharge Rate	0.5 P / 0.5 P ³

¹ cell temperature

² 0.5 P / 0.5 P

³ 25 °C +/- 2 °C
(73.4 °F ... 80.6 °F)

⁴ ambient temperature

MECHANICAL

Dimensions (L x W x H)	800 x 2,184 x 243 mm (31.5 x 86.0 x 9.6 in)
Weight	667 +/- 10 kg (1448.4 lbs ... 1492.5 lbs)
Protection Level	IP 67

TEMPERATURE RANGE

Discharge	-30 °C ... 60 °C ¹ (-22 °F ... 140 °F)
Charge	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 (cell level), 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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