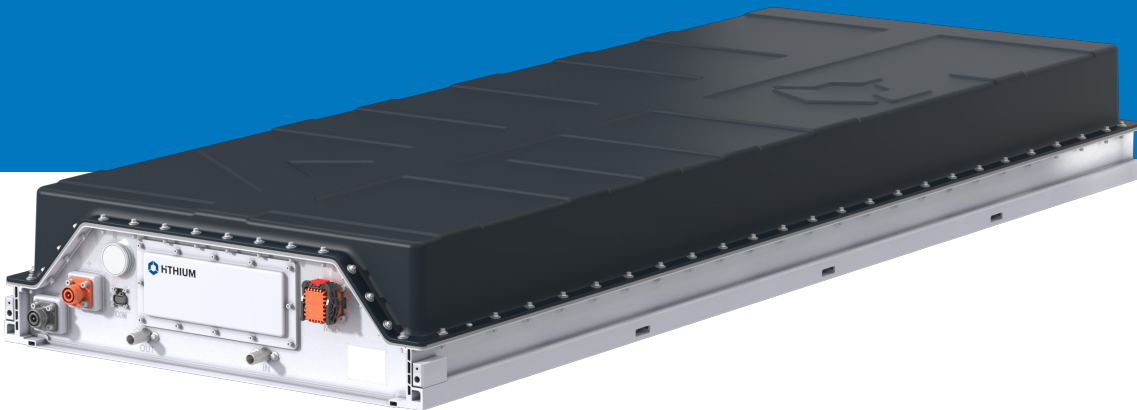


# ESS **Module** 104 kWh

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

<b>Configuration</b>	2P52S
<b>Cooling Method</b>	Liquid Cooling
<b>Coolant</b>	Glycol-Water Coolant Solution
<b>Gravimetric ED</b>	≥ 156 Wh/kg (≥70.8 Wh/lb)
<b>Volumetric ED</b>	≥ 244 Wh/L (≥923.6 Wh/gal)
<b>Application Altitude</b>	≤ 4,000 m (≤13123 ft)

## ELECTRICAL

<b>Nominal Voltage</b>	166.4 V
<b>Operating Voltage</b>	130 V ... 189.8 V 0 °C < T ≤ 60 °C <sup>1</sup> (32 °F < T ≤ 140 °F)
	104 V ... 189.8 V -30 °C < T ≤ 0 °C <sup>1</sup> (-22 °F < T ≤ 32 °F)
<b>Nominal Energy</b>	104.5 kWh <sup>2,3</sup>
<b>Nominal SOC at Delivery</b>	27 % <sup>3</sup>
<b>Nominal Charge / Discharge Rate</b>	0.5 P / 0.5 P <sup>3</sup>

<sup>1</sup> cell temperature

<sup>2</sup> 0.5 P / 0.5 P

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

<sup>4</sup> ambient temperature

## MECHANICAL

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

## TEMPERATURE RANGE

<b>Discharge</b>	-30 °C ... 60 °C <sup>1</sup> (-22 °F ... 140 °F)
<b>Charge</b>	0 °C ... 60 °C <sup>1</sup> (32 °F ... 140 °F)
<b>Storing (Recommended)</b>	-20 °C ... 35 °C <sup>4</sup> (-4 °F ... 95 °F)

## PRODUCT CERTIFICATIONS

<b>Certificates and Reports</b>	IEC 62619 (cell level), UL 1973, UL 9540A
<b>Safe Transportation</b>	UN 38.3

## ENVIRONMENTAL

<b>Compliance</b>	RoHS, REACH, Cobalt free
<b>Battery Regulation (EU)</b>	2023/1542

## COMPANY CERTIFICATIONS

ISO 9001, ISO 14001,  
ISO 45001, SA 8000

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