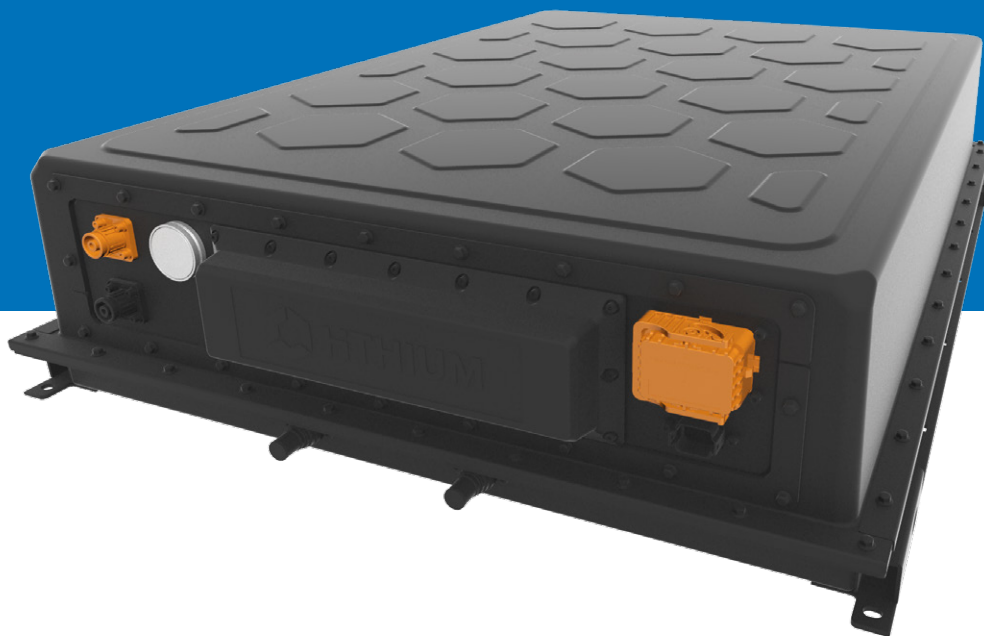


ESS **Module** 49 kWh

Liquid-cooled ESS module based on prismatic LFP cells



Preliminary

Liquid-cooled ESS module based on Hithium prismatic LFP ESS Cell 300 Ah with very high cyclic lifetime.

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

- Product certifications: IEC 62619 (cell level), UL 1973, UL 9540A, UN 38.3
- Company certifications: ISO 9001, ISO 14001, ISO 45001
- Environmental Compliance: ROHS, REACH

High safety

- Based on Hithium ESS 300 Ah prismatic LFP cell with high thermal stability and Active Lithium-Ion Technology with Sustained Release
- Ultra-wide operating temperature range

Low LCOS (Levelised Cost of Storage)

- Very long cycle life thanks to advanced material and process technologies
- Excellent thermal management improves energy throughput by creating an optimal operating temperature

ESS **Module** 49 kWh

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



GENERAL		MECHANICAL	
Cell Type	Hithium LFP71173207	Dimensions (L x W x H)	820 x 1.150 x 245 mm
Cell Capacity	300 Ah ^{1,2}	Weight	340 kg
Battery Configuration	1P52S	Protection Level	IP 67
Cooling Method	Liquid Cooling	TEMPERATURE RANGE	
Coolant Volume	1,2 l	Operating	-30 °C ... 50 °C ³
Coolant	50 % Water / 50 % Glycol	Storing (recommended)	-20 °C ... 35 °C ³
Gravimetric	> 146 Wh/kg	PRODUCT CERTIFICATIONS	
Volumetric	> 216 Wh/l	Certificates and Reports	IEC 62619 (cell level), UL 1973, UL 9540A, UN 38.3
Type	LFP3001P52S	ENVIRONMENTAL	
Application Altitude	≤ 4.000 m	Compliance	ROHS, REACH Cobalt free
ELECTRICAL		COMPANY CERTIFICATIONS	
Nominal Voltage	166,4 V	ISO 9001, ISO 14001, ISO 45001	
Operating Voltage	T > 0 °C 130 ... 187,2 V T ≤ 0 °C 104 ... 187,2 V		
Nominal Energy	49,920 kWh		
Nominal SOC at delivery	27 % ²		
Nom. Charge / Discharge Rate	0,5 P / 0,5 P ²		
Max. Charge / Discharge Rate	1 P / 1 P ²		

¹ 0,5 P / 0,5 P
² 25 °C +/- 2,0
³ ambient temperature

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