

# BESS **Module** 43 kWh

Liquid-cooled BESS module based on prismatic LFP cells



## Liquid-cooled BESS module based on HiTHIUM prismatic LFP BESS Cell 280 Ah with 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 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 280 Ah prismatic LFP cell with high thermal stability
- High thermal stability thanks to liquid cooling

## Low LCOS (Levelised Cost of Storage)

- Long cycle life thanks to advanced material and process technologies
- Excellent thermal management improves energy throughput by ensuring optimal operating temperature

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## GENERAL

Cell Type	HiTHIUM LFP71173207
Cell Capacity	280 Ah <sup>1,2</sup>
Battery Configuration	1P48S
Cooling Method	Liquid Cooling
Coolant Volume	1,2 l
Coolant	50 % Water / 50 % Glycol
Gravimetric	> 138 Wh/kg
Volumetric	> 195 Wh/l
Type	LFP280-1P48S
Application Altitude	≤ 3.000 m

## ELECTRICAL

Nominal Voltage	153,6 V
Operating Voltage	T > 0 °C 120 ... 175,2 V T ≤ 0 °C 96 ... 175,2 V
Nominal Energy	43,008 kWh <sup>1,2</sup>
Nominal SOC at delivery	27 % <sup>2</sup>
Nom. Charge / Discharge Rate	0,5 P / 0,5 P <sup>2</sup>
Max. Charge / Discharge Rate	1 P / 1 P <sup>2</sup>

<sup>1</sup> 0,5 P / 0,5 P

<sup>2</sup> 25 °C +/- 2,0

<sup>3</sup> ambient temperature

## MECHANICAL

Dimensions (L x W x H)	820 x 1.092 x 245 mm
Weight	310 kg
Protection Level	IP 67

## TEMPERATURE RANGE

Operating	-30 °C ... 50 °C <sup>3</sup>
Storing (recommended)	-20 °C ... 35 °C <sup>3</sup>

## PRODUCT CERTIFICATIONS

Certificates and Reports	IEC 62619 (Cell level), UL 1973, UL 9540A, UN 38.3
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## ENVIRONMENTAL

Compliance	ROHS, REACH Cobalt free
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## COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

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