

BESS **Module** 46 kWh

Liquid-cooled BESS module based on prismatic LFP cells



Preliminary

Liquid-cooled BESS module based on HiTHIUM prismatic LFP BESS Cell 300 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 I&C, utility 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 BESS 300 Ah prismatic LFP cell with high thermal stability
- High thermal stability thanks to liquid cooling

Low LCOS (Levelised Cost of Storage)

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

BESS **Module** 46 kWh

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



GENERAL

Cell Type	HiTHIUM LFP71173207
Cell Capacity	300 Ah ^{1,2}
Battery Configuration	1P48S
Cooling Method	Liquid Cooling
Coolant	50 % Water / 50 % Glycol
Gravimetric	> 139 Wh/kg
Volumetric	> 210 Wh/l
Type	LFP300-1P48S
Application Altitude	≤ 4.000 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	46,1 kWh ^{1,2}
Nominal SOC at delivery	27 % ²
Nom. Charge / Discharge Rate	0,5 P / 0,5 P ²

¹ 0,5 P / 0,5 P

² 25 °C +/- 2,0

³ ambient temperature

MECHANICAL

Dimensions (L x W x H)	820 x 1.150 x 245 mm
Weight	340 kg
Protection Level	IP 67

TEMPERATURE RANGE

Operating	-30 °C ... 50 °C ³
Storing (recommended)	-20 °C ... 35 °C ³

PRODUCT CERTIFICATIONS

Certificates and Reports	IEC 62619 (cell level), UL 1973, UL 9540A, UN 38.3
--------------------------	---

ENVIRONMENTAL

Compliance	ROHS, REACH Cobalt free
------------	----------------------------

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

HiTHIUM Energy Storage Technology Deutschland GmbH

Website: <https://hithium.com> | Email: Contact@hithium.de

Address: Landsberger Str. 155, 80687 Munich, Germany

Xiamen HiTHIUM Energy Storage Technology Co., Ltd.

Address: HiTHIUM Industrial Park, Tongxiang High-Tech Zone,

Xiamen, Fujian, China | Email: hithium@hithium.com



LinkedIn



Website