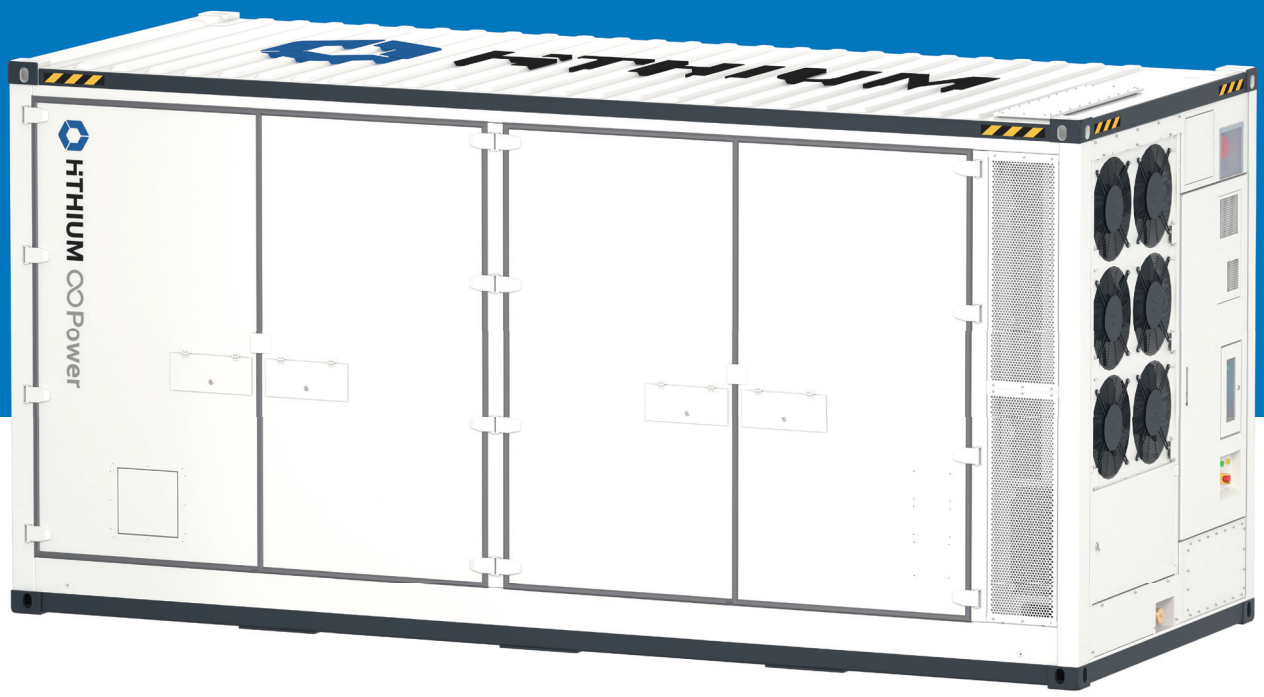
HiTHIUM

∞Power

6,25 MWh 2h

Liquid-cooled energy storage system



Liquid-cooled energy storage system based on HiTHIUM prismatic LFP ESS Cells 587 Ah with high cyclic lifetime.

Improved safety characteristics and specially optimised for the highest requirements on safety, reliability and performance. Suitable for industrial, utility, and grid serving applications.

- Product certifications and compliance*:
  IEC 62619, IEC 62477, IEC 63056, IEC 61000, IEC 62933, UL 1973, UL 9540A, NFPA 855, UN 38.3
- Company certifications:
  ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental compliance*:
  RoHS, REACH, Cobalt free
- Eco-friendly:
  New type of eco-friendly refrigerant, high recyclability.
- Flexible solution:
  String or central PCS compatible.

High safety

- High thermal stability thanks to innovated liquid cooling design.
- Multi-stage, active fire detection and protection system, compliance to NFPA 855.
- 3-level BMS for cell and system monitoring and protection.

Low LCOS (Levelised Cost of Storage)

- High cyclic life and low auxiliary consumption due to excellent thermal management improve energy throughput by ensuring optimal operating temperature.
- Highly integrated: including thermal management system, fire protection system, BMS, etc.
- Supports back to back and side by side installations.

∞Power

6,25 MWh 2h

Liquid-cooled energy storage system based on prismatic LFP cells with very high cyclic lifetime



GENERAL	
Configuration	8*1P416S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric ED	≥ 130 Wh/kg
Volumetric ED	≥ 145 Wh/L
Application Altitude	≤ 4.000 m [4]

ELECTRICAL	
Nominal Voltage	1.331,2 V
Operating Voltage	1.100 …1.500V
Nominal Energy	6.250 kWh [1, 2]
Nominal SOC at Delivery	27 % [2]
Nominal Charge/Discharge Rate	0,5 P / 0,5 P
Round Trip Efficiency	≥ 94 % [1, 2]

[1] 0,5 P / 0,5 P
[2] 25 °C +/- 2 °C
[3] ambient temperature
[4] For altitudes exceeding 2000 m, please consult the Hithium technical team for details.
** In progress*

MECHANICAL	
Dimensions (L x W x H)	6.058 x 2.438 x 2.896 mm
Maximum Weight	48 t
Protection Level	IP 55

TEMPERATURE RANGE	
Operating	-30 °C … 55 °C [3]
Storing (Recommended)	-20 °C … 35 °C [3]

PRODUCT CERTIFICATIONS AND COMPLIANCE	
Certificates, Report and Compliance	IEC 62619, EC 62477, IEC 63056, IEC 61000, IEC 62933, UL 1973, UL 9540A, NFPA 855*
Safe Transportation	UN 38.3

ENVIRONMENTAL	
Compliance	RoHS, REACH, Cobalt free
Regulation (EU)	2023/1542*

COMPANY CERTIFICATIONS	
	ISO 9001, ISO 14001, ISO 45001, SA 8000

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

Document is subject to regular updates, corrections, and improvements.
Kindly check you are using latest version.
Picture for illustration purpose only.