

BESS **Cabinet** 344 kWh

Liquid-cooled battery storage system



Liquid-cooled battery storage system based on HiTHIUM prismatic LFP BESS Cells 280 Ah with high cyclic lifetime

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

- Product certifications:
IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855, UN 38.3
- Company certifications:
ISO 9001, ISO 14001, ISO 45001
- Environmental Compliance:
ROHS, REACH

High safety

- High thermal stability thanks to liquid cooling
- Multi-stage, active fire protection system, compliance to NFPA 855
- Use of highly safe prismatic HiTHIUM LFP cells
- Ultra-wide operating temperature range

Low LCOS (Levelised Cost of Storage)

- Excellent thermal management improves energy throughput by ensuring optimal operating temperature
- High energy density
- Highly integrated: including thermal management system, fire protection system, BMS, etc.

BESS Cabinet

344 kWh

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



GENERAL

| | |
|------------------------|------------------------------|
| Battery Type | HiTHIUM LFP280-1P48S |
| No. of Battery Modules | 4 ... 8 |
| Configuration | Serial connection of modules |
| Cooling Method | Liquid cooling |
| BMS Communication | CAN |
| Gravimetric | > 98 Wh/kg ¹ |
| Volumetric | > 86 Wh/l ¹ |
| Application Altitude | ≤ 3,000 m |

ELECTRICAL

| | |
|-------------------------------|---|
| Nominal Voltage Cabinet | 1,228.8 V ¹ |
| Nominal Voltage Module | 153.6 V |
| Operating Voltage Cabinet | T > 0 °C 960 ... 1,401.6 V ¹ |
| | T ≤ 0 °C 768 ... 1,401.6 V ¹ |
| Operating Voltage Module | T > 0 °C 120 ... 175.2 V ¹ |
| | T ≤ 0 °C 96 ... 175.2 V ¹ |
| Nominal Energy Cabinet | 344.06 kWh ^{1,2,3} |
| Nominal Energy Module | 43.008 kWh ^{2,3} |
| Nominal SOC at delivery | 27 % ³ |
| Nominal Charge/Discharge Rate | 0.5 P / 0.5 P |
| Round Trip Efficiency | > 94 % |

¹ 8 modules

² 0.5 P / 0.5 P

³ 25°C +/- 2.0

⁴ ambient temperature

MECHANICAL

| | |
|------------------------|--------------------------|
| Dimensions (L x W x H) | 1,300 x 1,300 x 2,350 mm |
| Weight Cabinet | < 3,500 kg ¹ |
| Weight Battery Module | 310 kg |
| Protection Level | IP 55 |

TEMPERATURE RANGE

| | |
|-----------------------|-------------------------------|
| Operating | -30 °C ... 50 °C ⁴ |
| Storing (recommended) | -20 °C ... 35 °C ⁴ |

PRODUCT CERTIFICATIONS

| | |
|--------------------------|--|
| Certificates and Reports | IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855, UN 38.3 |
|--------------------------|--|

ENVIRONMENTAL

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

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

HiTHIUM Energy Storage Technology USA Inc.

Address: 4046 Clipper Ct, Fremont, CA 94538, United States

Email: hithium@hithium.com

Xiamen HiTHIUM Energy Storage Technology Co., Ltd.

Address: HiTHIUM Industrial Park, Tongxiang High-Tech Zone, Xiamen, Fujian, China | Email: hithium@hithium.com



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