

# ESS Container

## 5.016 MWh

Liquid-cooled energy storage system



**Liquid-cooled energy storage system based on HiTHIUM prismatic LFP ESS Cells 314 Ah with very 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 certification and compliance: 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, SA 8000
- Environmental Compliance: RoHS, REACH, Cobalt free
- Flexible solution: String or central PCS compliance.

**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
- Dedicated cell monitoring and protection system

**Low LCOS (Levelised Cost of Storage)**

- Excellent thermal management improves 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

# ESS Container

## 5.016 MWh

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



### GENERAL

<b>Configuration</b>	6*2P416S
<b>Cooling Method</b>	Liquid Cooling
<b>BMS Communication</b>	CAN, RS485, Ethernet
<b>Gravimetric ED</b>	≥ 125 Wh/kg (≥57 Wh/lb)
<b>Volumetric ED</b>	≥ 117 Wh/L (≥443 Wh/gal)
<b>Application Altitude</b>	≤ 4,000 m (≤13,123 ft)

### ELECTRICAL

<b>Nominal Voltage</b>	1,331.2 V
<b>Operating Voltage</b>	1,040 V ... 1,500 V
<b>Nominal Energy</b>	5,016 kWh <sup>1,2</sup>
<b>Nominal SOC at Delivery</b>	27 % <sup>2</sup>
<b>Nominal Charge/Discharge Rate</b>	0.5 P / 0.5 P
<b>Round Trip Efficiency</b>	≥ 94 % <sup>1,2</sup>

<sup>1</sup> 0.5 P / 0.5 P

<sup>2</sup> 25 °C +/- 2 °C

(73.4 °F ... 80.6 °F)

<sup>3</sup> ambient temperature

### MECHANICAL

<b>Dimensions (L x W x H)</b>	6,058 x 2,438 x 2,896 mm (238 ½ x 96 x 114 in)
<b>Maximum Weight</b>	40,000 kg (88,185 lb)
<b>Protection Level</b>	IP 55

### TEMPERATURE RANGE

<b>Operating</b>	-30 °C ... 55 °C <sup>3</sup> (-22 °F ... 131 °F)
<b>Storing (Recommended)</b>	-20 °C ... 35 °C <sup>3</sup> (-4 °F ... 95 °F)

### PRODUCT CERTIFICATIONS AND COMPLIANCE

<b>Certificates, Report and Compliance</b>	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855
<b>Safe Transportation</b>	UN 38.3

### ENVIRONMENTAL

<b>Compliance</b>	RoHS, REACH, Cobalt free
<b>Battery Regulation (EU)</b>	2023/1542

### COMPANY CERTIFICATIONS

ISO 9001, ISO 14001,  
ISO 45001, SA 8000

#### HiTHIUM Energy Storage Technology USA Inc.

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

Email: [hithium@hithium.com](mailto: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](mailto:hithium@hithium.com)



LinkedIn



Website