

# ESS Container

## 3.44 MWh

Liquid-cooled battery storage system



**Liquid-cooled battery storage system based on HiTHIUM prismatic LFP ESS 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, SA 8000
- Environmental Compliance:  
RoHS, REACH, Cobalt free

**High safety**

- High thermal stability thanks to liquid cooling
- Use of highly safe prismatic HiTHIUM LFP cells
- Multi-stage, active fire protection system, compliance to NFPA855

**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.

# ESS Container

## 3.44 MWh

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



### GENERAL

Battery Type	HiTHIUM LFP280-1P48S
No. of Battery Modules	80 (10 x 8)
Configuration	10P384S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric	≥ 101 Wh/kg
Volumetric	≥ 80 Wh/L
Application Altitude	≤ 3,000 m

### ELECTRICAL

Nominal Voltage Container	1,228.8 V
Operating Voltage Container	960 ... 1,401.6 V
Nominal Energy Container	3,440.6 kWh <sup>1,2</sup>
Nominal SOC at delivery	27 % <sup>2</sup>
Nominal Charge/Discharge Rate	0.5 P / 0.5 P
Round Trip Efficiency	≥ 94 %

<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)	6,058 x 2,438 x 2,896 mm
Weight Container (20 ft.)	< 34,000 kg
Protection Level	IP 55

### TEMPERATURE RANGE

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

### PRODUCT CERTIFICATIONS

Safety Certificates	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, UL 9540A, NFPA 855
Safe Transportation	UN 38.3

### ENVIRONMENTAL

Compliance	RoHS, REACH, Cobalt free
Battery Regulation (EU)	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)



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