

# ∞ Block 418 kWh

Liquid-cooled battery storage system



## Liquid-cooled battery storage system based on HiTHIUM prismatic LFP ESS Cells 314 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.

### Secure

- The cabinets are independently designed, and in the event of a thermal runaway, it will not spread to other cabinets
- PACK-level and cluster-level independent aerosol fire suppression
- Structural Design – Extreme condition tolerance

### Convenient

- Compatible with both string-type and centralized parallel operation methods
- The external connection layout inside the cabinet is clear and easy to connect
- Support querying device operation information through the cloud

# ∞ Block 418 kWh

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



## GENERAL

<b>Battery Type</b>	HiTHIUM LFP 314Ah
<b>Module Configuration</b>	1P52S
<b>No. of Battery Modules</b>	8
<b>Cooling Method</b>	Liquid cooling
<b>Configuration</b>	Serial connection of modules
<b>Communication Interface</b>	CAN/RS485/Ethernet
<b>Application Altitude</b>	≤ 4000 m (>2000m derating)

## ELECTRICAL

<b>Nominal Voltage Cabinet</b>	1331.2 V
<b>Nominal Voltage Module</b>	166.4 V
<b>Operating Voltage Cabinet</b>	1040 V ... 1500 V <sup>1</sup>
<b>Nominal Energy Cabinet</b>	417,99 kWh <sup>1,2,3</sup>
<b>Nominal Energy Module</b>	52,2 kWh <sup>2,3</sup>
<b>Nominal SOC at delivery</b>	27 % <sup>3</sup>
<b>Nominal Charge/Discharge Rate</b>	0,5 P / 0,5 P

<sup>1</sup> 8 modules

<sup>2</sup> 0,5 P / 0,5 P

<sup>3</sup> 25°C +/- 2,0

<sup>4</sup> ambient temperature

## MECHANICAL

<b>Dimensions (L x W x H)</b>	1350 x 1300 x 2350 mm
<b>Weight Cabinet</b>	≤ 3700 kg <sup>1</sup>
<b>Weight Battery Module</b>	≤340±10 kg
<b>Protection Level</b>	IP 55
<b>Corrosion rating</b>	C5M

## TEMPERATURE RANGE

<b>Operating</b>	-30 °C ... 55 °C <sup>4</sup> (>40°C reduction)
<b>Storing (recommended)</b>	-20 °C ... 35 °C <sup>4</sup>

## SAFTY MEASURES

<b>Fire Alarm System</b>	Smoke detector, heat detector
<b>Fire Suppression Measures</b>	Aerosol fire suppression system, Deflagration Vent, Fire Hose Coupling

### HiTHIUM Energy Storage Technology Deutschland GmbH

Website: <https://hithium.com> | Email: [Contact@hithium.de](mailto: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](mailto:hithium@hithium.com)



LinkedIn



Website