

# ESS Cabinet 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.

### **High safety**

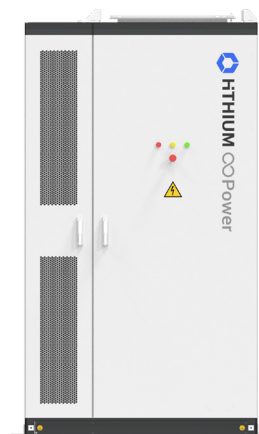
- High thermal stability thanks to liquid cooling
- Multistage fire detection & suppression system
- Use of highly safe prismatic HiTHIUM LFP cells
- Ultra -wide operating temperature range

### **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.

# ESS **Cabinet** 418 kWh

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



## GENERAL

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

## ELECTRICAL

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

Dimensions (L x W x H)	1300 x 1350 x 2380 mm
Weight Cabinet	≤ 3700 kg <sup>1</sup>
Weight Battery Module	≤340±10 kg
Protection Level	IP 55
Corrosion rating	C5

## TEMPERATURE RANGE

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

## SAFTY MEASURES

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

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