

# BESS **Container**

## 3,686 MWh

Liquid-cooled battery storage system



Preliminary

**Liquid-cooled battery storage system based on HiTHIUM prismatic LFP BESS Cells 300 Ah with highest 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, 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 NFPA855
- Use of highly safe prismatic HiTHIUM LFP cells

### 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 Container

## 3,686 MWh

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



| GENERAL                |                      |
|------------------------|----------------------|
| Battery Type           | HiTHIUM LFP300-1P48S |
| No. of Battery Modules | 80 (10 x 8)          |
| Configuration          | 10P384S              |
| Cooling Method         | Liquid Cooling       |
| BMS Communication      | CAN, RS485, Ethernet |
| Gravimetric            | > 105 Wh/kg          |
| Volumetric             | > 86 Wh/l            |
| Application Altitude   | ≤ 3.000 m            |

| ELECTRICAL                    |                            |
|-------------------------------|----------------------------|
| Nominal Voltage Container     | 1.228,8 V                  |
| Operating Voltage Container   | T > 0 °C 960 ... 1401,6 V  |
|                               | T ≤ 0 °C 768 ... 1401,6 V  |
| Nominal Energy Container      | 3.686,4 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.) | < 35.000 kg              |
| Protection Level          | IP 54                    |

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

| 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 |

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