HiTHIUM

# ∞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

columbus **Official representative in Ukraine** +380 93 714 59 95 • info@columbusenergy.com.ua • **columbusenergy.com.ua**

# ∞ Block 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 [1] |
| Nominal Energy Cabinet | 417,99 kWh [1, 2, 3] |
| Nominal Energy Module | 52,2 kWh [2, 3] |
| Nominal SOC at delivery | 27 % [3] |
| Nominal Charge/Discharge Rate | 0,5 P / 0,5 P |

| MECHANICAL | |
|---|---|
| Dimensions (L x W x H) | 1350 x 1300 x 2350 mm |
| Weight Cabinet | ≤ 3700 kg [1] |
| Weight Battery Module | ≤340±10 kg |
| Protection Level | IP 55 |
| Corrosion rating | C5M |

| TEMPERATURE RANGE | |
|---|---|
| Operating | -30 °C ... 55 °C [4] *(>40°C reduction)* |
| Storing (recommended) | -20 °C ... 35 °C [4] |

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

[1] *8 modules*
[2] *0,5 P / 0,5 P*
[3] *25°C +/- 2,0*
[4] *ambient temperature*