

# ESS Cabinet

## 125kW/261kWh

Liquid-cooled battery storage system for C&I Applications



### Liquid-cooled energy storage system based on HiTHIUM prismatic LFP ESS Cells 314Ah with high cyclic lifetime.

Improved safety characteristics and specially optimised for the highest requirements on safety, reliability and performance. Suitable for Commercial & Industrial applications.

- Product certifications and compliance\*: IEC 62619, IEC 62477, IEC60730, IEC61000, UN 38.3
- Company certifications: ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental compliance\*: RoHS, REACH, Cobalt free
- Eco-friendly: Low noise, new type of eco-friendly refrigerant, high recyclability.

### 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 PCS, thermal management system, fire protection system, BMS, EMS.

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## GENERAL

|                        |                           |
|------------------------|---------------------------|
| Battery Type           | HiTHIUM LFP 314Ah         |
| Module Configuration   | 1P52S                     |
| No. of Battery Modules | 5                         |
| Cooling Method         | Liquid cooling            |
| Dimensions (L x W x H) | 1350 x 1000 x 2380 mm     |
| Weight Cabinet         | ≥ 2.7t                    |
| Protection Level       | IP 55                     |
| Operating Temperature  | -30 °C ~ 50 °C            |
| Altitude               | ≤ 4000m (>2000m derating) |

## DC SIDE PARAMETERS

|                               |                    |
|-------------------------------|--------------------|
| Nominal Voltage               | 832 V              |
| Operating Voltage             | 715V~923V          |
| Nominal Energy Cabinet        | 261 kWh            |
| Nominal Energy Module         | 52.2kWh            |
| Nominal Charge/Discharge Rate | 0.5 P / 0.5 P      |
| Communication Interface       | CAN/RS485/Ethernet |

## AC SIDE PARAMETERS

|                         |                 |
|-------------------------|-----------------|
| Nominal Voltage         | 400Vac, 3W+N+PE |
| Nominal Grid Frequency  | 50Hz/60Hz       |
| Nominal Power           | 125kW           |
| Maximum Power           | 137kW           |
| Nominal Output Current  | 180A            |
| Maximum Output Current  | 200A            |
| Communication Interface | CAN/RS485       |

## SAFTY MEASURES

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

## CERTIFICATIONS

|                       |  |
|-----------------------|--|
| Safety Certifications | IEC 62619, IEC 62477<br>IEC 60730, IEC 61000, UN38.3 |
| PCS Certifications    | EN 50549-1, G99, VDE4110                             |
| Compliance            | RoHS, REACH, Cobalt free                             |

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