

ESS Cabinet

135kW/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, UL 9540A, IEC 61000, 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 2350 mm
Weight Cabinet	≥ 2.7t
Protection Level	IP 55
Operating Temperature	-30 °C ~ 50 °C
Altitude	3000m (>3000m 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	480Vac, 3W+N+PE
Nominal Grid Frequency	50Hz/60Hz
Nominal Power	135kW
Maximum Power	148kW
Nominal Output Current	162A
Maximum Output Current	178A
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 IEC 61000, UN38.3, UL 9540A
Compliance	RoHS, REACH, Cobalt free

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