

X-Series

AC Cabinet

522 kWh

Liquid-cooled battery storage system for C&I-scale applications

Enhanced Capacity

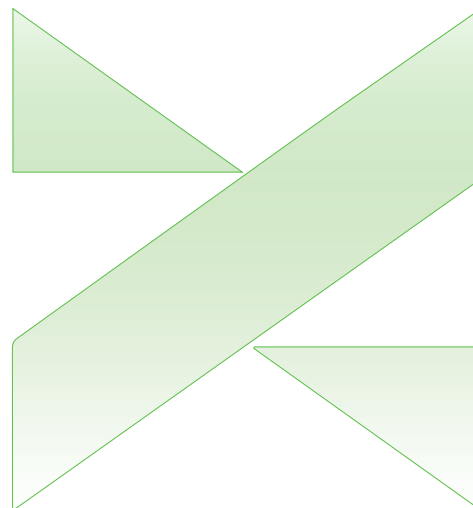
- Based on prismatic LFP cells 314 Ah with high cyclic lifetime
- Dynamic ventilation, auxiliary water sprinkler setup, and integrated fire suppression system
- Aerogel insulation, heat-resistant enclosures, and deflagration mitigation features
- Ultra-wide operating temperature range

Safety Characteristics

- Well-equipped with smoke, gas and heat detection instruments
- AI-based fault detection; gas, smoke and heat detection
- Superior thermal control boosts energy output by maintaining ideal temperatures.

Adjustable

- Space saving configuration: compact design with side-by-side and back-to-back layout
- Optimal energy capacity solutions for power plants, enabled by our advanced system sizing tool
- Integrated PCS solution delivers layout variation



GENERAL

Cell Capacity	LFP ESS 314 Ah
Pack Configuration	2P52S
Rack Configuration	2P260S
String Number	1
No. of Battery Pack	5
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet

ELECTRICAL

Nominal Voltage Cabinet	832 V
Operating Voltage Cabinet	715 V ... 923 V
Nominal Energy Cabinet	522 kWh ^{1,2}
Nominal SOC at delivery	27 % ²
Nominal Charge/Discharge Rate	0,5 P / 0,5 P
Round Trip Efficiency	> 94 %

AC PARAMETERS

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

MECHANICAL

Dimensions (LxWxH)	1350 × 1000 × 2380 mm
Weight	≤ 2.700 kg
Protection Level	IP 55

AMBIENT

Application Altitude	≤ 4.000 m
Application Temperature	-30 °C ... 55 °C
Storing Temperature	-20 °C ... 35 °C

PRODUCT CERTIFICATIONS

IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, IEC 62933-5-2, UL 9540A, NFPA 855, NFPA 68, NFPA 69, NFPA 70E, NFPA 72, UN 38.3

ENVIRONMENTAL

Compliance	ROHS, REACH, Cobalt Free
Battery Regulation (EU)	2023/1542

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

¹ 0,5 P / 0,5 P
² 25°C (+/- 2.0)