All-in-One BESS

Cabinet 418k

A high-capacity cabinet-based BESS for C&I applications, designed to deliver reliable backup power and enhanced on-site energy optimization for demanding energy profiles

418 kWh
capacity

215 kW
power



- Powered by Siemens industrial control technology
- Integrated PLC, EMS, and SCADA on a single platform
- Cybersecurity designed in accordance with IEC 62443
- Fully compliant with European grid requirements

High ROI | **Grid-ready** | **Scalable architecture** | **Fast deployment**

Industrial-grade reliability for commercial and industrial applications

Ensuring stable operation and predictable lifecycle through:
• extended battery lifetime
• advanced cell-level monitoring (SOC/SOH)
• liquid cooling system
• robust enclosure protection IP54 (Pack IP67)

High energy efficiency

Optimized BESS architecture minimizing losses across the entire power conversion chain.
• Up to 89% system efficiency
• Up to 98.5% PCS efficiency
Ensuring maximum energy utilization and improved project economics (LCOS)

Advanced integration into modern power systems

Industrial communication interfaces (RS-485, Ethernet, CAN, PROFINET) and a Siemens-compatible control architecture ensure:
• seamless integration with existing grid infrastructure
• advanced energy management capabilities
• access to energy markets and monetization opportunities

Multi-layer safety architecture

Designed to ensure safe operation in all conditions, including:
• three-level fire suppression system based on Siemens Cerberus PRO
• integrated temperature, smoke, and gas detection

DC Data

Cell Specification	LFP
Cell Capacity	314Ah
Battery Configuration	1P52S × 8
Rated Capacity @ BOL	418 kWh @ 25°C 0.5P
DC Voltage Range	1123.2 - 1497.6 V
Charge/Discharge Ratio	≤ 0.5P
Cooling/Heating Method (Pack)	Liquid Cooling
Cycle Life	8000 Cycles

AC Data

Rated AC Power	215 kW
AC Connection	3P3W
AC Voltage (PCS)	690 V
AC Frequency	50 Hz
Maximum Efficiency System	89%

System Data

Dimensions (W×D×H)	1300 × 1350 × 2500 mm
Weight Approx.	3700 kg
Maximum Working Altitude	2000 m
Operating Temperature	-25°C ~50°C
IP Rating	IP54 (Pack IP67)
Fire Safety (Pack)	Aerosol
Display	Touchscreen display (optional)
Communication Interface	RS-485, Ethernet, CAN, PROFINET