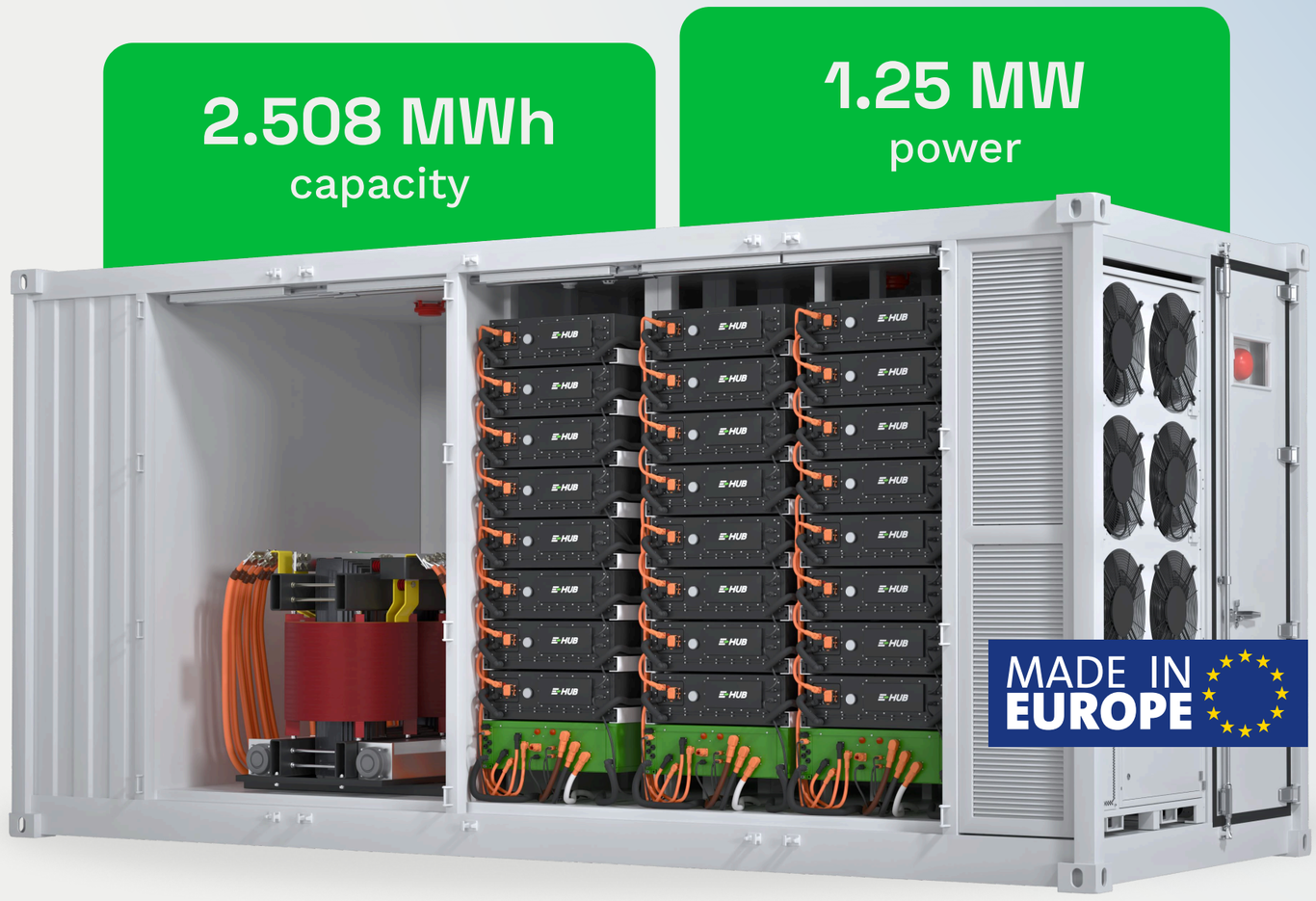
All-in-One BESS

Container 2.5M

A utility-scale, containerized all-in-one BESS with integrated PCS and MV transformer, designed for projects requiring high efficiency, grid stability, and fast system integration

- 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 utility-scale and critical infrastructure applications

Ensuring stable operation and predictable lifecycle performance through:
- extended battery lifetime
- advanced cell-level monitoring (SOC/SOH)
- liquid cooling system (battery and PCS)
- robust enclosure protection IP54 (PACK IP67, PCS IP66)

High energy efficiency

An optimized system architecture minimizing losses across the entire power conversion chain.
- Up to 92% system efficiency
- Up to 98.5% PCS efficiency
- Up to 99.0% transformer 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
- support for grid services and energy market participation

Multi-layer safety architecture

Designed to ensure safe operation in all conditions, including:
- three-level fire suppression system
- fire suppression based on Siemens Cerberus PRO system
- integrated temperature, smoke, and gas detection
- cybersecurity designed in accordance with IEC 62443 principles

DC Data

Cell Specification	LFP
Cell Capacity	314Ah
Battery Configuration	1P104S × 24
Rated Capacity @ BOL	2 508 kWh @ 25°C, 0.5P
DC Voltage Range	1123.2 - 1497.6 V
Charge/Discharge Ratio	≤ 0.5P
Cooling/Heating Method (Pack, PCS)	Liquid Cooling
Cycle Life	8000 Cycles

AC Data

Rated AC Power	1.25 MW
AC Connection	3P3W
AC Voltage (PCS / Transformer)	690 V / 0,4 / 10 kV
AC Frequency	50 Hz
Maximum Efficiency PCS	98.5%
Maximum Efficiency Transformer	99.0%
Maximum Efficiency System	92.0%

System Data

Dimensions (W×D×H)	6058 × 2438 × 2896 mm
Weight Approx.	27 t
Maximum Working Altitude	2000 m
Operating Temperature	-25°C ~50°C
Humidity	0–95% (non-condensing)
IP Rating	IP54 (Pack IP67, PCS IP66)
Corrosion Resistance	C4
Fire Safety (Pack)	Aerosol
Communication Interface	RS-485, Ethernet, CAN, PROFINET