

Container 5.0M

A large-scale, containerized BESS solution designed for utility and industrial projects requiring high energy capacity, system reliability, and efficient integration into modern power infrastructure

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, enabled by:

- 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 designed to minimize losses across the entire power conversion chain.

- Up to 93% 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
- 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
- integrated temperature, smoke, and gas detection

DC Data

Cell Specification	LFP
Cell Capacity	314Ah
Battery Configuration	1P104S × 48
Rated Capacity @ BOL	5 016 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	2.5 MW
AC Connection	3P3W
AC Voltage (PCS)	690 V
AC Frequency	50 Hz
Maximum Efficiency System	93%

System Data

Dimensions (W×D×H)	6058 × 2438 × 2896 mm
Weight Approx.	44.5 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

Container 4.2M

A high-capacity, containerized BESS for utility-scale and industrial applications, designed to support peak shaving, ensure operational continuity, and optimize energy performance for high-demand facilities

Powered by Siemens industrial control technology

Integrated PLC, EMS, and SCADA on a single platform

Cybersecurity designed in accordance with IEC 62443

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High ROI

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Scalable architecture

Fast deployment

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Ensuring stable operation and predictable lifecycle performance, enabled by:

- extended battery lifetime
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- liquid cooling system (battery and PCS)
- robust enclosure protection IP54 (PACK IP67, PCS IP66)

High energy efficiency

An optimized system architecture designed to minimize losses across the entire power conversion chain.

- Up to 92.5% 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
- 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
- integrated temperature, smoke, and gas detection

DC Data

Cell Specification	LFP
Cell Capacity	314Ah
Battery Configuration	1P104S × 40
Rated Capacity @ BOL	4 180 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	2.0 MW
AC Connection	3P3W
AC Voltage (PCS)	690 V
AC Frequency	50 Hz
Maximum Efficiency System	92.5%

System Data

Dimensions (W×D×H)	6058 × 2438 × 2896 mm
Weight Approx.	38.5 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

Container 2.5M

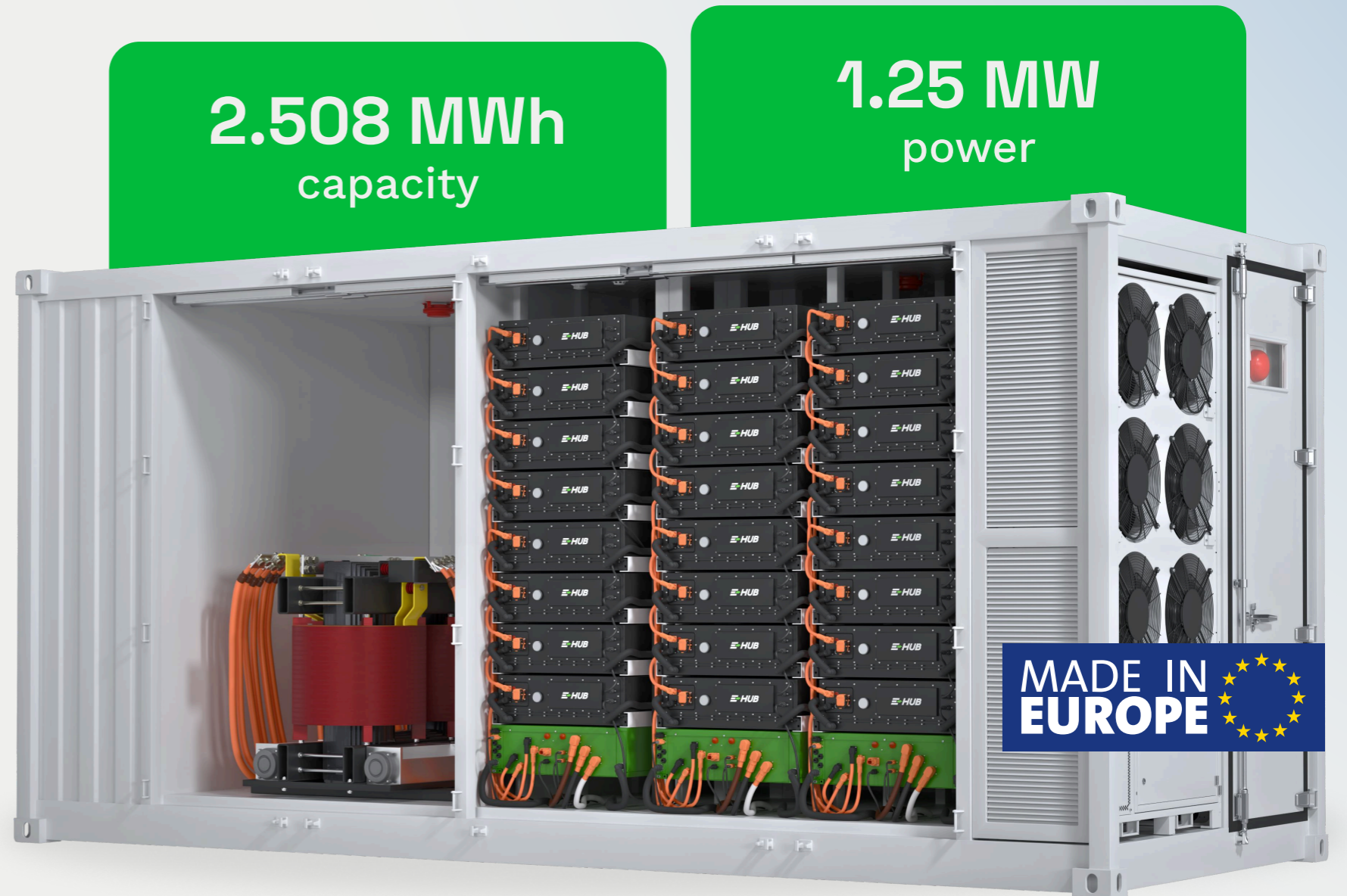
A utility-scale, containerized all-in-one BESS with integrated PCS and MV transformer, designed for projects requiring high efficiency, grid stability, and fast system integration

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



2.508 MWh capacity

1.25 MW power

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

Silent

Designed for projects located near residential and urban areas, the Silent configuration minimizes acoustic impact without compromising system performance

Rooftop-mounted condenser

Specially selected low-noise cooling components

SOUND PRESSURE LEVEL

40 dB(A)

at a distance of
10 meters from the
system



THE CONFIGURATION

The solution features a rooftop-mounted condenser and specially selected low-noise cooling components engineered to reduce operational sound levels. This configuration achieves a sound pressure level of **just 40 dB(A)** at a distance of 10 meters from the system

The reduced noise footprint enables deployment closer to residential developments, simplifies project permitting, and minimizes the need for additional noise mitigation measures

01

The reduced noise footprint allows deployment closer to residential developments

02

The lower sound level simplifies project permitting

03

The quiet operation removes the need for additional noise mitigation measures

This rooftop condenser cooling solution is available across all E-HUB containerized energy storage systems

Container
5.0M

Container
4.2M

Container
2.5M