



Capture
Energy

BESS PowerBox

250 kW/516 kWh
400 VAC

Bringing Good Energy to Your Business



Technical Product Sheet

BESS PowerBox 250 kW/516 kWh, 400 VAC



Energy **516 kWh**

AC Connection **3P3W+PE**

Power **250 kW**

Dimensions **10 ft container**
2991 x 2438 x 2591 mm

Voltage **400 VAC**

Weight **7.5 t**



Modular, all-in-one design



Ready for the Nordic flexibility market



Advanced battery technology



Quick deployment

Meet our BESS PowerBox—an all-in-one battery energy storage system tailored for the flexibility market, and beyond. Packed with advanced lithium-ion battery tech, Nordic control, PCS, cloud connectivity, and aggregator services, it offers seamless integration and adaptability for fast deployment in any application, including FFR and FCR-D. Built tough for industrial environments, it ensures reliable performance.

By using our Capture Controller, we ensure smooth operation for all parties, from customers to installers and aggregators. It comes pre-installed with every delivery.

Our system is designed with safety as the top priority. Using safe and durable LFP chemistry, a multilayered BMS, and an integrated fire suppression system, it offers an unprecedented level of safety.

Technical Specification

BESS PowerBox 250 kW/516 kWh, 400 VAC

DC Data

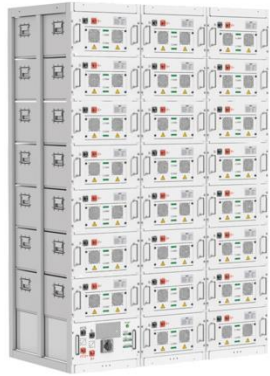
Rated Energy	516 kWh
Rated Voltage	1 024 V
Voltage Range	896 V – 1 136 V
String Configuration	1P320S
Number of Strings	2
Cell Cycle Life	5000 cycles (80 %SOH, 0.5C/0.5C, 25 °C)
Cell Specification	3.2 V/280 Ah
Cell Chemistry	Lithium Iron Phosphate (LFP)

AC Data

Rated Power	250 kW
Maximum power	274 kW
Rated Voltage	400 V (without transformer)
Grid Voltage Range	~ 340 – 440 V
AC Current	360.9 A
Output THDi	<3 %
Power factor	0.1 – 1 leading or lagging (controllable)
Output	3 Phase, 3 Wire, PE (without transformer)

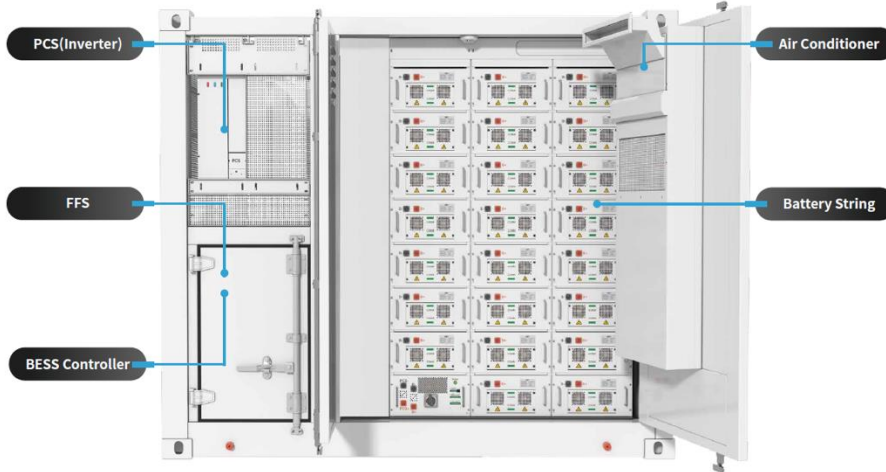
General Data

Dimension (without clearances)	2991x2438x2591 mm
Weight	7.5 t
Certification	CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2, UN 3536
Ingress Protection Class	IP54
Operating Ambient Temperature	-20 - + 40 °C
Maximum Working Altitude	2000 m (non-derating)
Thermal Management	Forced air (integrated HVAC)
Fire Supression System	FK 5-1-12
Communication	Modbus
Connectivity	Ethernet, 4G/3G
Self-discharge	<3 %/month (fully charged, shut down)

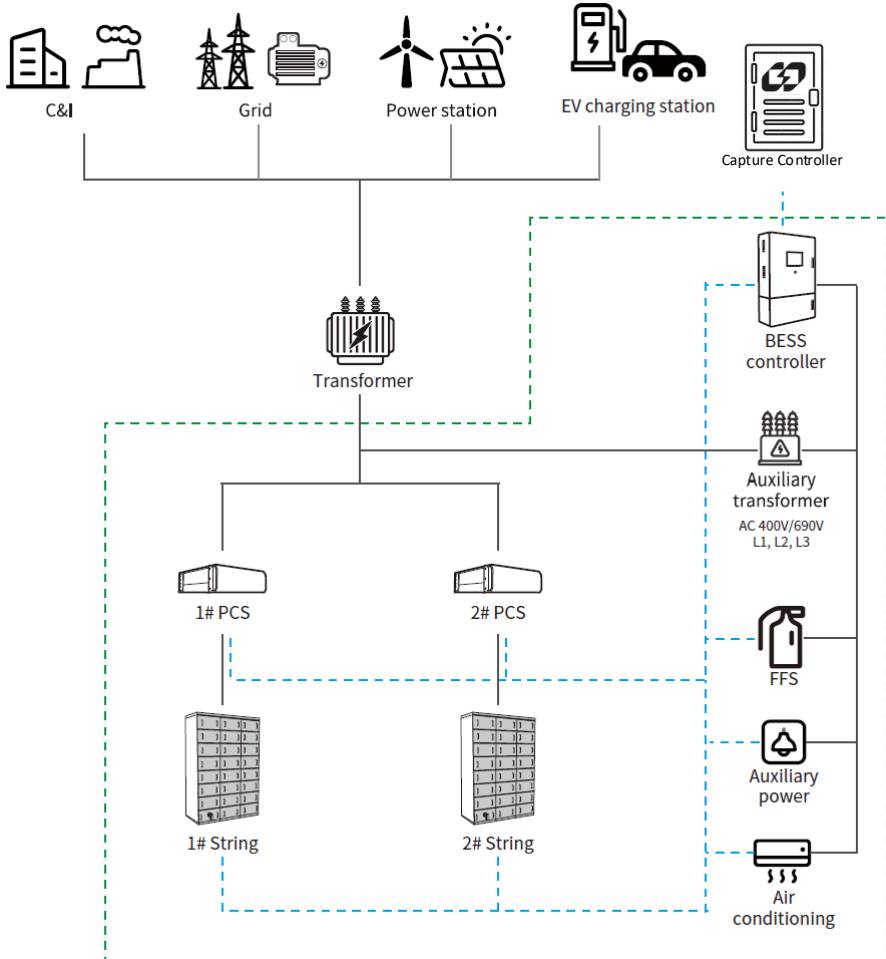


System Topology

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Power ——— Communication - - - - - Container Scope - - - - -



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Notes

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