



Capture
Energy

BESS PowerBox

0.5 MW/0.55 MWh
400 Vac

Bringing Good Energy to Your Business



Technical Product Sheet

BESS PowerBox 0.5 MW/0.55 MWh, 400 Vac



Energy **0.55 MWh**

AC Connection **3P3W+PE**
3P4W+PE with transformer

Power **0.5 MW**

Dimensions **20 ft container**
6058x2438x2591 mm

Voltage **400 Vac**
690 Vac with transformer

Weight **13 t**
14.5 t with transformer



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

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DC Data

Rated Energy	552.9 kWh
Rated Voltage	768 V
Voltage Range	672 V – 852 V
String Configuration	240S2P
Number of Strings	4
Cell Cycle Life	5000 cycles (80 %SOH, 1C/1C, 25 °C)
Cell Specification	3.2 V/90 Ah
Cell Chemistry	Lithium Iron Phosphate (LFP)



AC Data

Rated Power	500 kW
Maximum power	550 kW
Rated Voltage	400 V (without transformer) 690 V (with transformer)
Grid Voltage Range	342 – 418 V
AC Current	721.7 A
Output THDi	<3 %
Power factor	0.1 – 1 leading or lagging (controllable)
Output	3 Phase, 3 Wire, PE (without transformer) 3 Phase, 4 Wire, PE (with transformer)

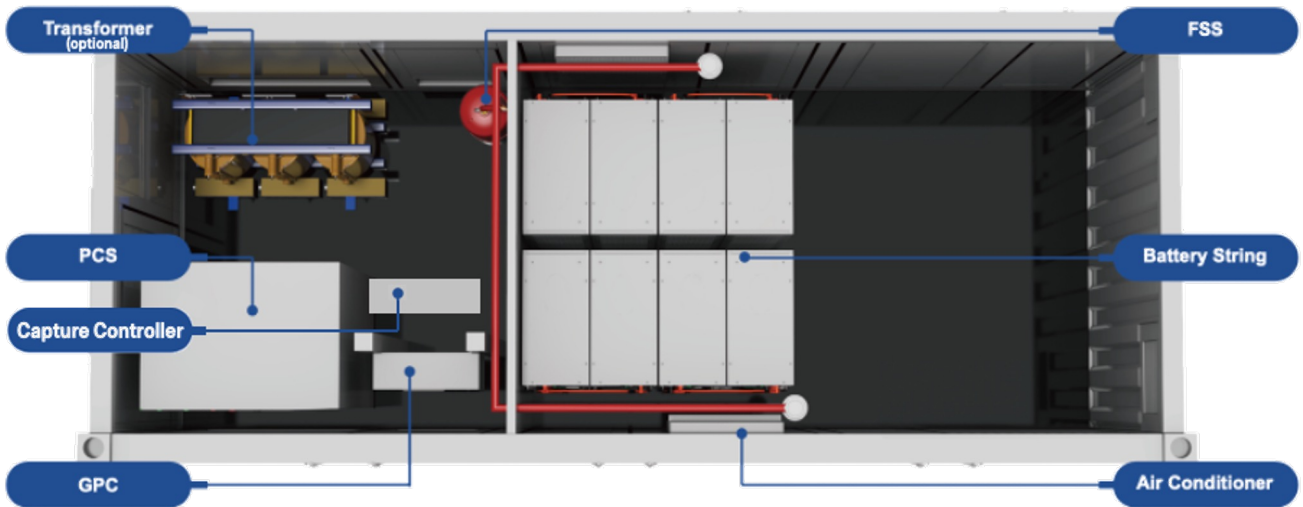
General Data

Dimension (without clearances)	6058x2438x2591 mm
Weight	13.2 t (without transformer) 14.5 t (with transformer)
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	Novec 1230/FK 5-1-12
Communication	Modbus
Connectivity	Ethernet, 4G/3G
Self-discharge	<3 %/month (fully charged, shut down)



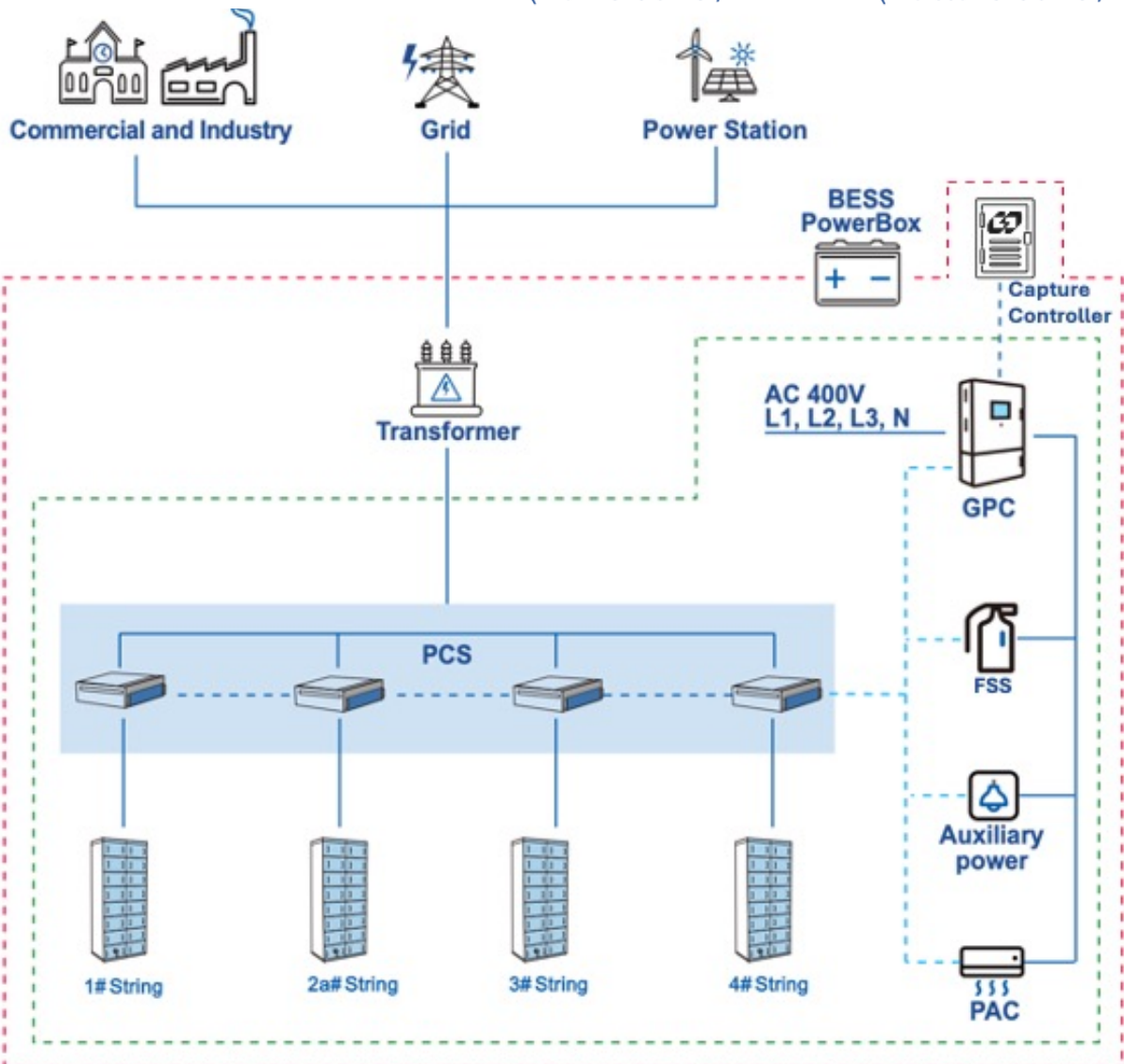
System Topology

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FSS Fire Supression System PCS Power Conversion System GPC Grid Point Controller

Power ——— Communication - - - - - Container Scope (With Transformer) - - - - - Container Scope (Without Transformer) - - - - -



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Notes

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