



# BESS PowerBox

0.5 MW/1.1 MWh  
400 Vac

Bringing Good Energy to Your Business



# Technical Product Sheet

BESS PowerBox 0.5 MW/1.1 MWh, 400 Vac



Energy **1.1 MWh**

Power **0.5 MW**

Voltage **400 Vac**

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

Dimensions **20 ft container**  
6058x2438x2591 mm

Weight **19.5 t**  
21 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	1105.9 kWh
Rated Voltage	768 V
Voltage Range	672 V – 852 V
String Configuration	240S2P
Number of Strings	8
Cell Cycle Life	5000 cycles (80 %SOH, 1C/1C, 25 °C)
Cell Specification	3.2 V/90 Ah
Cell Chemistry	Lithium Iron Phosphate (LFP)



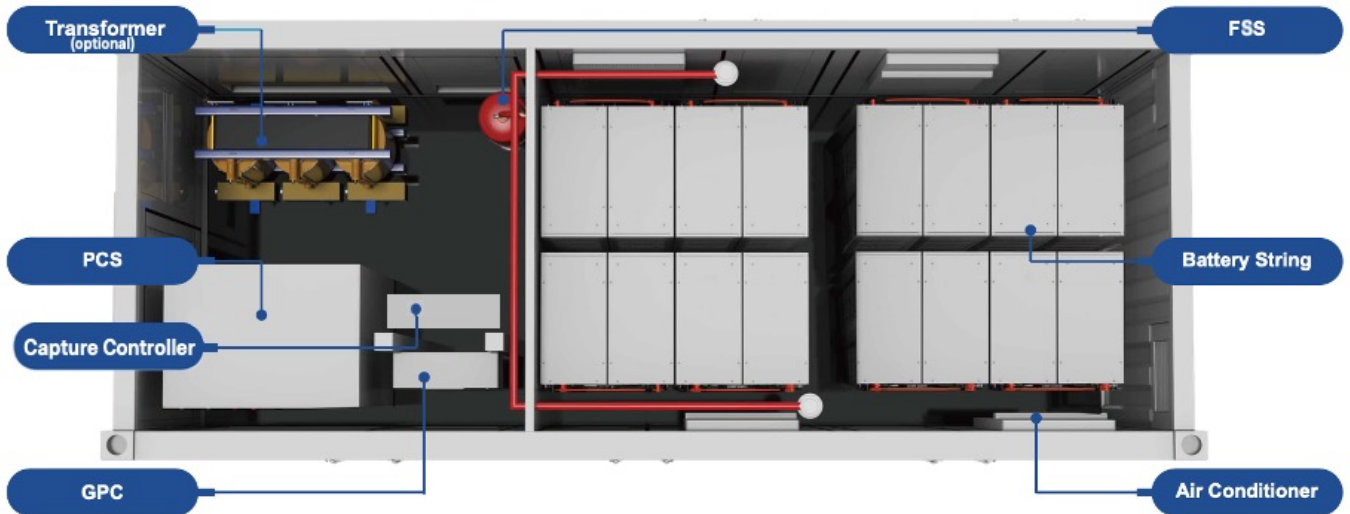
AC Data	
Rated Power	500 kW
Maximum power	550 kW
Rated Voltage	400 V
Grid Voltage Range	342 – 418 V
AC Current	721.7 A
Output THDi	<3 %
Power factor	0.1 – 1 leading or lagging (controllable)
Output	3 Phase, 3 Wire, PE (without transformer) 3 Phase, 4 Wire, PE (with transformer)

General Data	
Dimension (without clearances)	6058x2438x2591 mm
Weight	19.5 t (without transformer) 21 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)



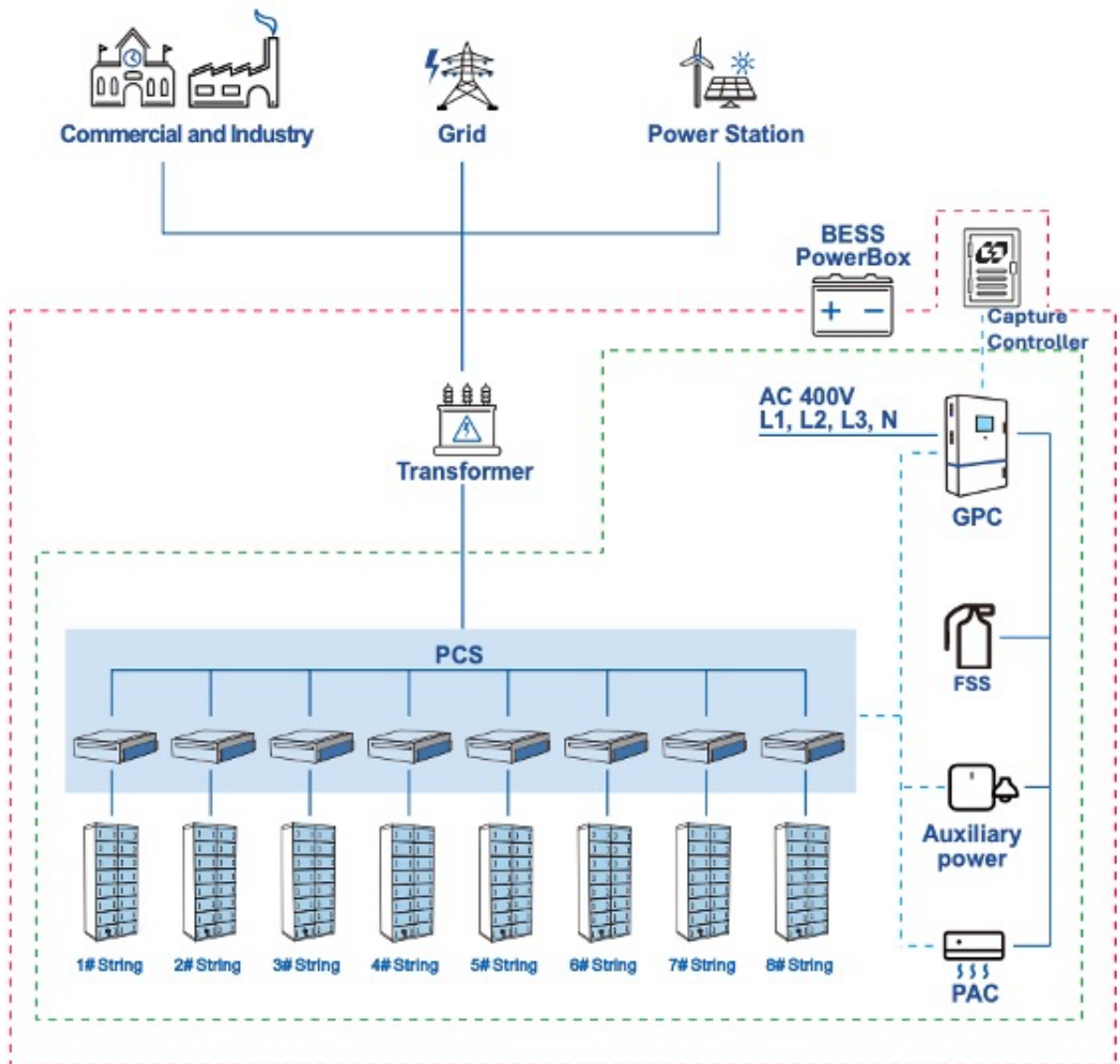
# System Topology

BESS PowerBox 0.5 MW/0.55 MWh, 400 Vac



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

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





# Contact

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## Notes

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