

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 Power 0.5 MW Voltage 400 Vac

AC Connection

3P3W+PE 3P4W+PE with transformer

Dimensions

20 ft container

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 preinstalled 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 supression system, it offers an unpresedented level of safety.

Technical Specification BESS PowerBox 0.5 MW/0.55 MWh, 400 Vac



Capture Energy



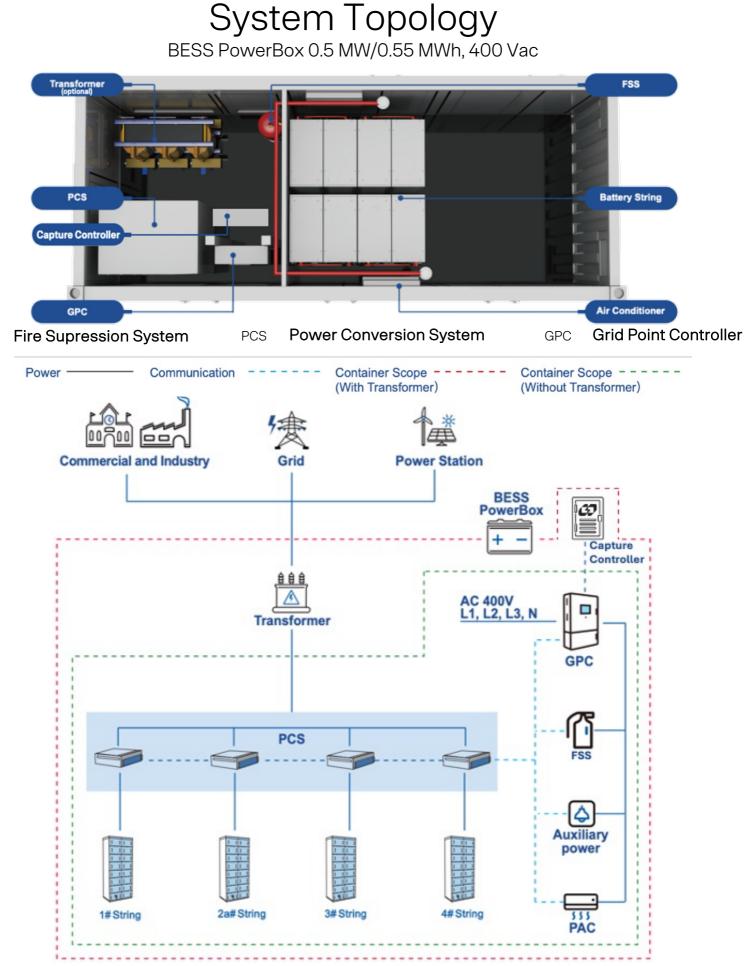


DC Data	
Rated Energy	552.9 kWh
Rated Voltage	768 V
Voltage Range	672 V – 852 V
String Configuration	240S2P
Number of Strings	4
Cell Cycle Life	5000 cycles (80 %SOH, 1C/1C, 25 °C)
Cell Specification	3.2 V/90 Ah
Cell Chemistry	Lithium Iron Phosphate (LFP)
AC Data	
Rated Power	500 kW
Maximum power	550 kW
Rated Voltage	400 V
Grid Voltage Range	342 – 418 V
AC Current	721.7 A
Output THDi	<3 %
Power factor	0.1 – 1 leading or laggning (controllable)
Output	3 Phase, 3 Wire, PE (without transformer) 3 Phase, 4 Wire, PE (with transformer)
General Data	
Dimension (without clearances)	
	6058x2438x2591 mm
Weight	6058x2438x2591 mm 13.2 t (without transformer) 14.5 t (with transformer)
·	13.2 t (without transformer)
Weight	13.2 t (without transformer) 14.5 t (with transformer) CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2,
Weight Certification	13.2 t (without transformer) 14.5 t (with transformer) CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2, UN 3536
Weight Certification Ingress Protection Class	13.2 t (without transformer) 14.5 t (with transformer) CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2, UN 3536 IP54
Weight Certification Ingress Protection Class Operating Ambient Temperature	13.2 t (without transformer) 14.5 t (with transformer) CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2, UN 3536 IP54 -20 - + 40 °C
Weight Certification Ingress Protection Class Operating Ambient Temperature Maximum Working Altitude	 13.2 t (without transformer) 14.5 t (with transformer) CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2, UN 3536 IP54 -20 - + 40 °C 2000 m (non-derating)
Weight Certification Ingress Protection Class Operating Ambient Temperature Maximum Working Altitude Thermal Management	 13.2 t (without transformer) 14.5 t (with transformer) CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2, UN 3536 IP54 -20 - + 40 °C 2000 m (non-derating) Forced air (integrated HVAC)
Weight Certification Ingress Protection Class Operating Ambient Temperature Maximum Working Altitude Thermal Management Fire Supression System	 13.2 t (without transformer) 14.5 t (with transformer) CE, IEC 62619, UL 9540A, EN 50549-1, EN 50549-2, UN 3536 IP54 -20 - + 40 °C 2000 m (non-derating) Forced air (integrated HVAC) Novec 1230/FK 5-1-12

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FSS



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Notes

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