

BESS PowerBox LC

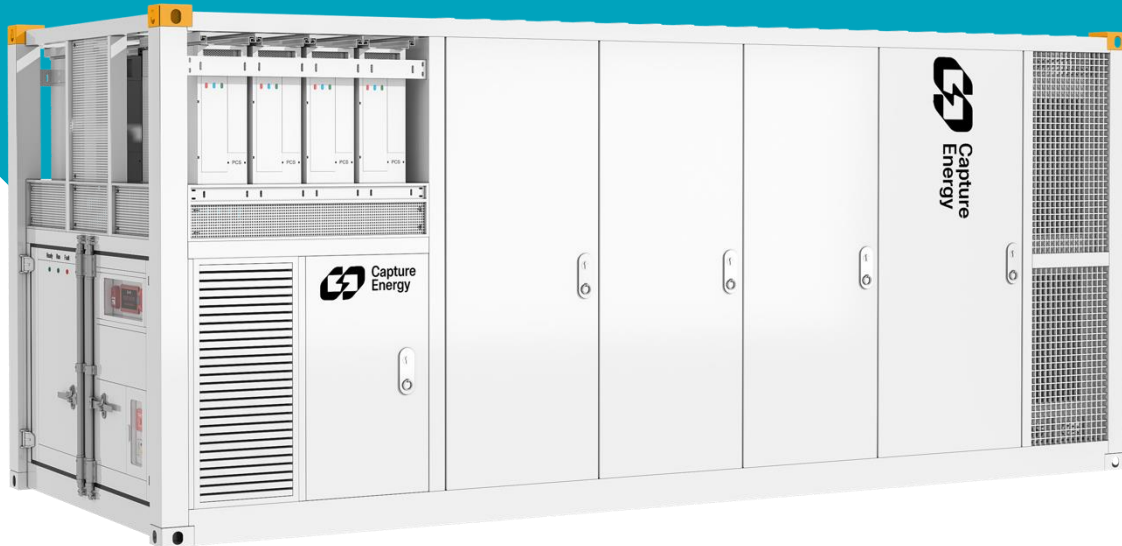
1 MW/2.3 MWh
400 VAC

Bringing good energy
to your business



Technical Product Sheet

BESS PowerBox LC 1 MW/2.3 MWh, 400 VAC



Power **1 MW**

AC Connection **3P3W+PE**

Energy **2.3 MWh**

Dimensions **20 ft container**
6058x2438x2896 mm

Voltage **400 AC**

Weight **26 t**



Modular, all-in-one design



Ready for the ancillary and
behind-the meter services



Advanced battery technology
with high safety



Easy to install



Designed for Nordic climate
Able to operate down to -30 °C



Robust security powered by our Nordic-
developed Capture Controller

Technical Specification

BESS PowerBox LC 1 MW/2.3 MWh, 400 VAC

DC Data	
Rated Energy	2315 kWh
Rated Voltage	921.6 V
Voltage Range	806.4 V – 1022.4 V
String Configuration	288S1P
Number of Strings	8
Cycle Life	>8000 cycles (70 %SOH, 0.5C/0.5C, 25 °C)
Cell Specification	3.2 V/314 Ah
Cell Chemistry	Lithium Iron Phosphate (LFP)
AC Data	
Rated Power	1000 kW
Rated Voltage	400 V
Grid Voltage Range	340 – 440 V
AC Current	1440 A
Output THDi	<3 %
Power factor	0.1 – 1 leading or lagging (controllable)
Output	3 Phase, 3 Wire, PE
General Data	
Dimension (without clearances)	6058x2438x2896 mm
Weight	26.1 t
P-rate / C-rate	0.5 (2 hour)
Available energy*	2040 kWh
Certification	UL 9540A,, IEC 62619, IEC 63056, IEC 62933-5-2, IEC 61000-6-2, IEC 61000-6-4, IEC 62477-1
Ingress Protection Class	IP54
Operating Ambient Temperature	-30 to +50 °C
Maximum Working Altitude	2000 m (non-derating)
Thermal Management	Liquid cooling (battery) & forced air (PCS)
Fire Suppression System	Aerosol, Water
Communication	Modbus, MQTT (through Capture Controller)
Connectivity	Ethernet, dual 4G/3G (with failover)
Self-discharge	≤3%/month (fully charged, shut down)

System Topology

BESS PowerBox LC 1 MW/2 MWh, 400 VAC



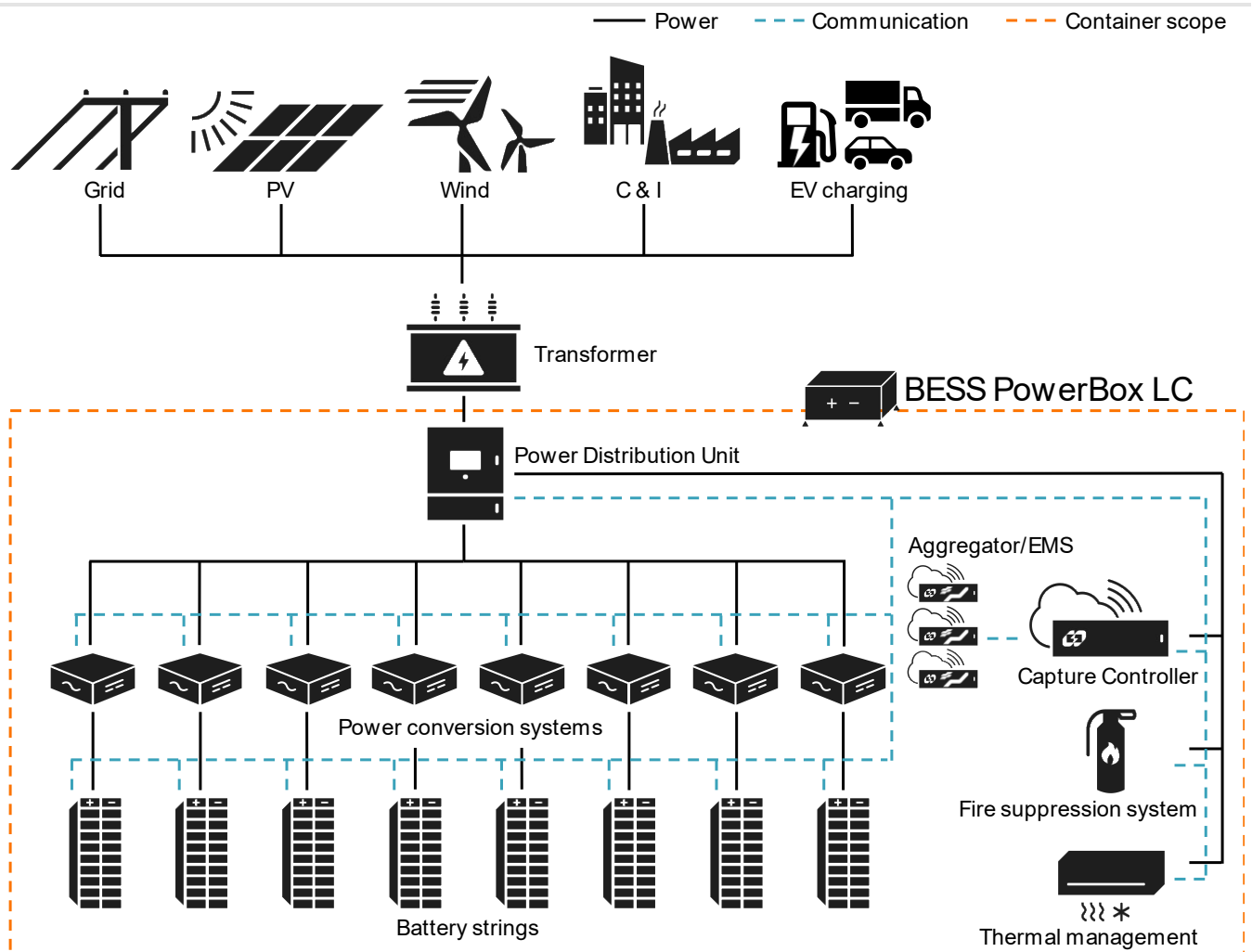
Capture
Controller

Abbreviations

FSS **Fire Suppression System**

PCS **Power Conversion System**

PDU **Power Distribution Unit**



Capture Controller

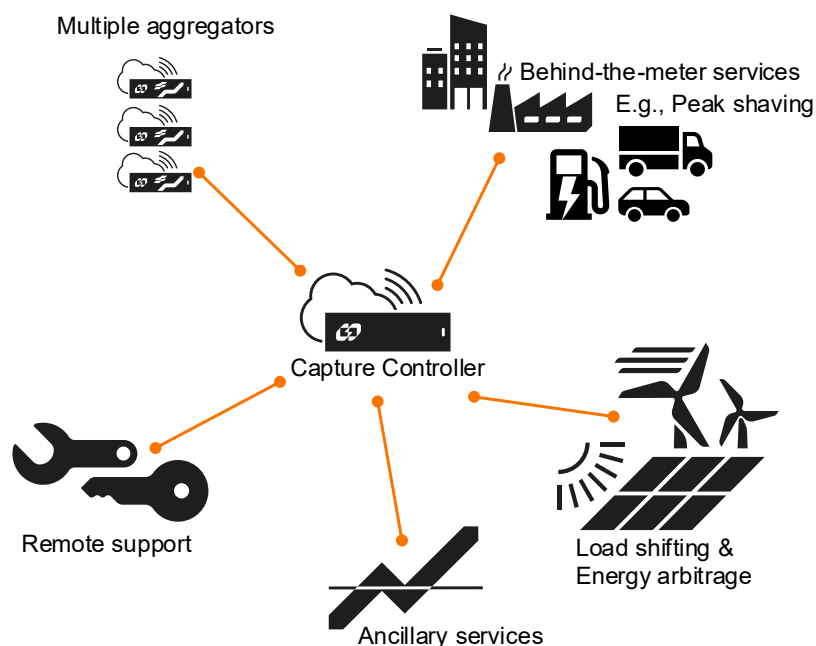
Energy Management Information System (EMIS) with fast response time and support for multiple aggregators locally on site. Integrated with 15+ aggregators and energy management systems.

Secure control with integrated firewall and redundant internet connections to always stay secure and connected.

Advanced features enable optimal remote support, minimizing the need for on-site service visits.

All sensors required for ancillary services are pre-installed for easy installation and quickly start generating revenue.

Support for behind-the-meter services by integrating remote sensors, control for other assets on site, and third-party energy management systems.



Capture Cloud

Cloud-based asset management for financial insights, remote support, and a multitude of other tools and features to maximize uptime of the BESS and market performance.

Customer Portal

Analyze investments and ownership of BESS Products and Services.

Partner Portal

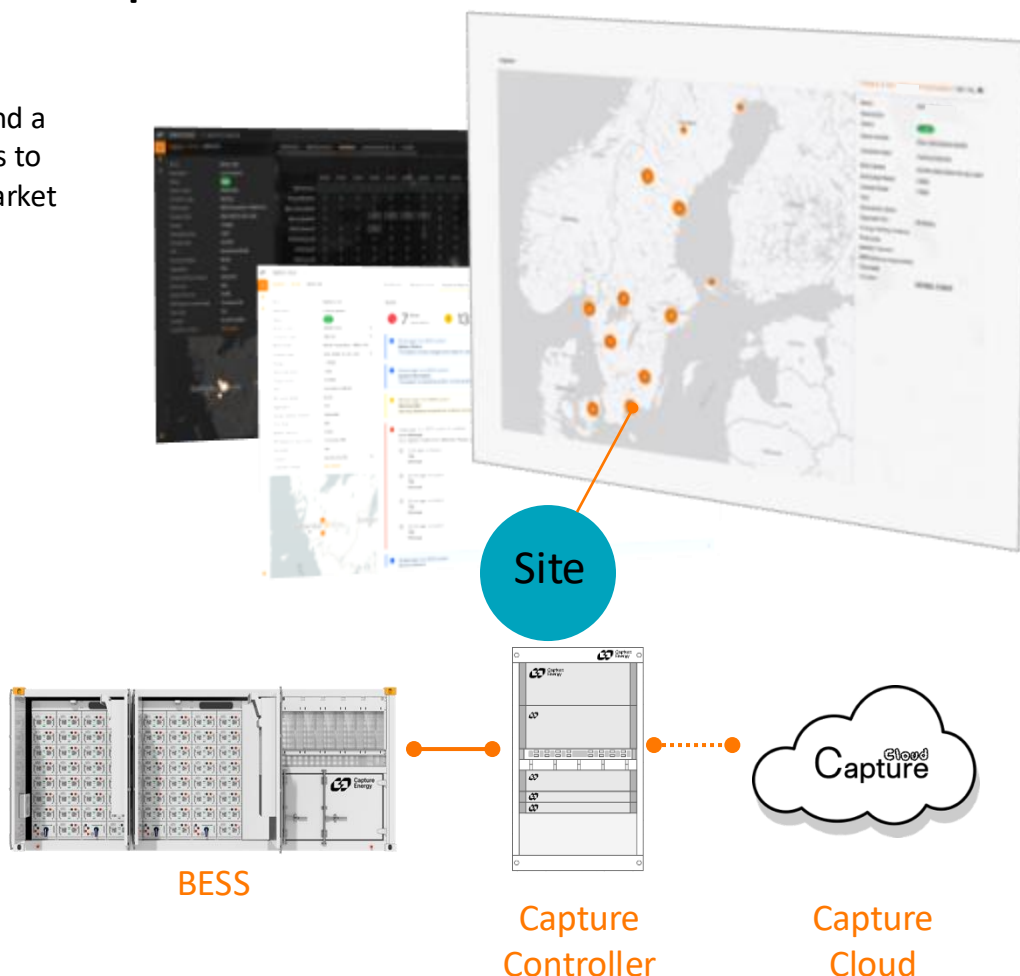
Comprehensive tools for administering your customers and installations.

Aggregator Portal

Analyze revenue trends and assess service levels delivered to customers.

CE Operations Portal

Secure BESS optimized operations services and asset management.



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Notes

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