

BESS PowerBox LC

1.6 MW/3 MWh

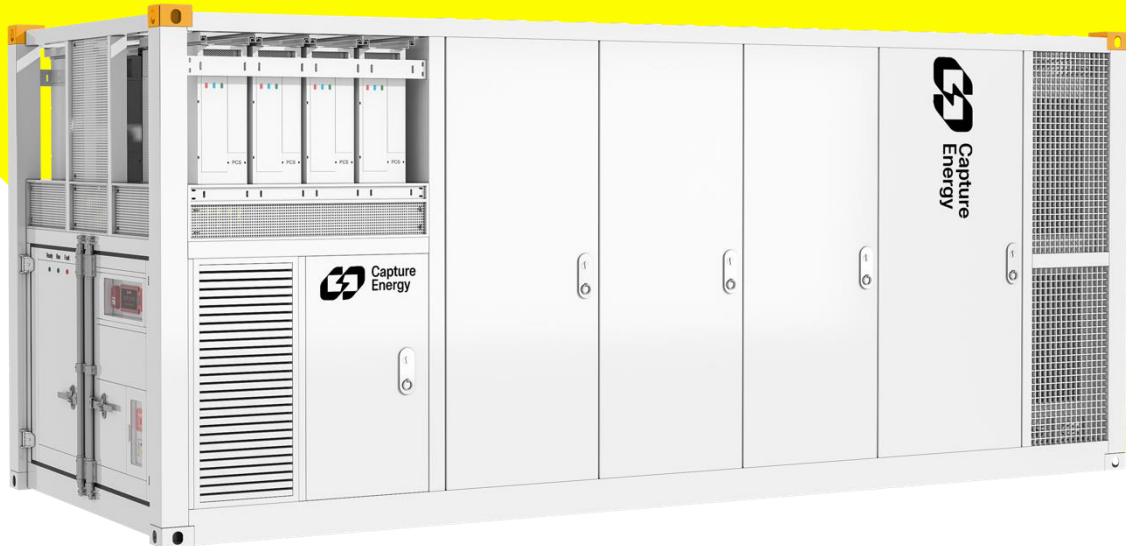
690 VAC

Bringing good energy
to your business



Technical Product Sheet

BESS PowerBox LC 1.6 MW/3 MWh, 690 VAC



Power **1.6 MW**

AC Connection **3P3W+PE**

Energy **3 MWh**

Dimensions **20 ft container**
6058x2438x2896 mm

Voltage **690 AC**

Weight **31 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 1.6 MW/3 MWh, 690 VAC

DC Data

Rated Energy	3086 kWh
Rated Voltage	1228.8 V
Voltage Range	1075.2 V – 1363.2 V
String Configuration	384S1P
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

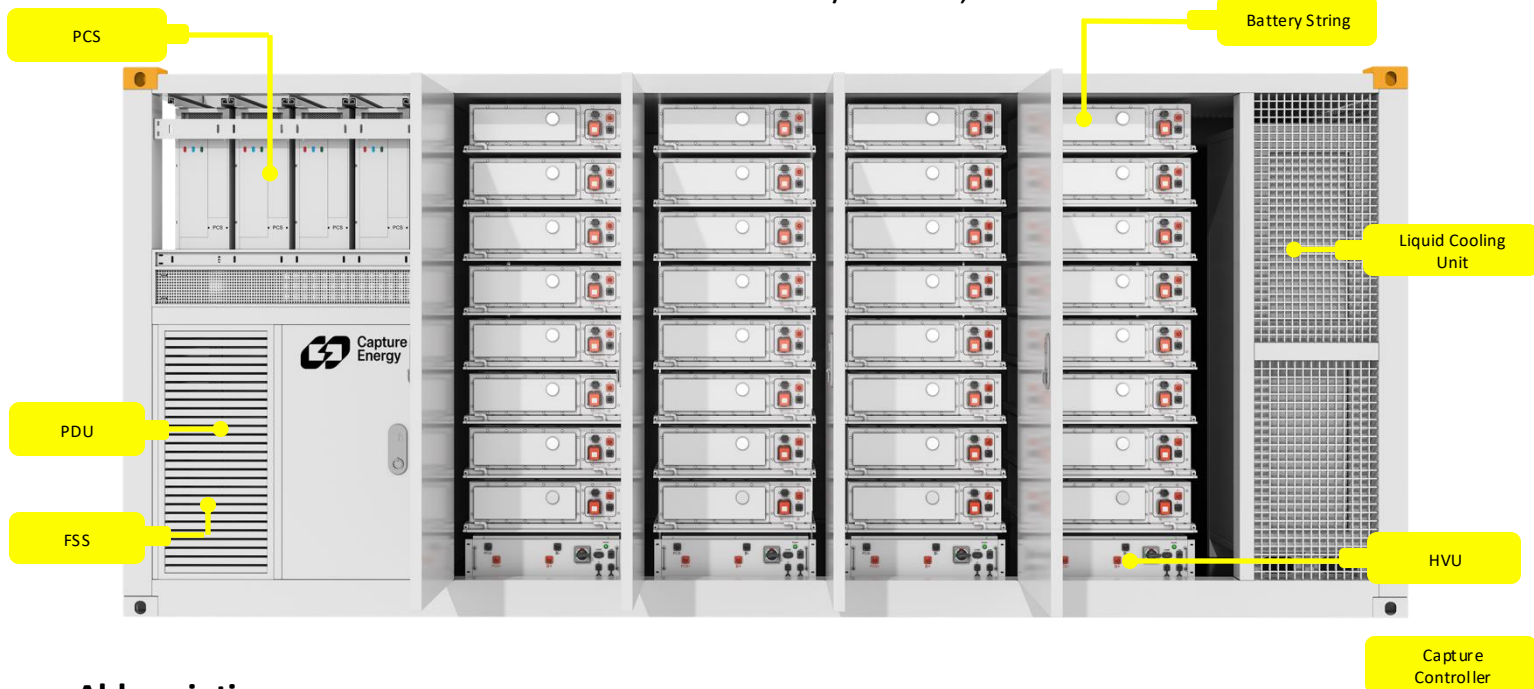
Rated Power	1600 kW
Rated Voltage	690 V
Grid Voltage Range	586 – 759 V
AC Current	1339 A
Output THDi	<3 %
Power factor	0.1 – 1 leading or lagging (controllable)
Output	3 Phase, 3 Wire, PE

General Data

Dimension (without clearances)	6058x2438x2896 mm
Weight	31 t
P-rate / C-rate	0.5 (2 hour)
Available energy*	2725 kWh
Certification	UL 9540, UL 9540A, UL 1973, UL 1741, UN 38.3, UN 3536, IEC 62619, IEC 62477, IEC 62477, EN 50549-1&2, Fingrid SJV2019, CE-LVD & CE-EMC.
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

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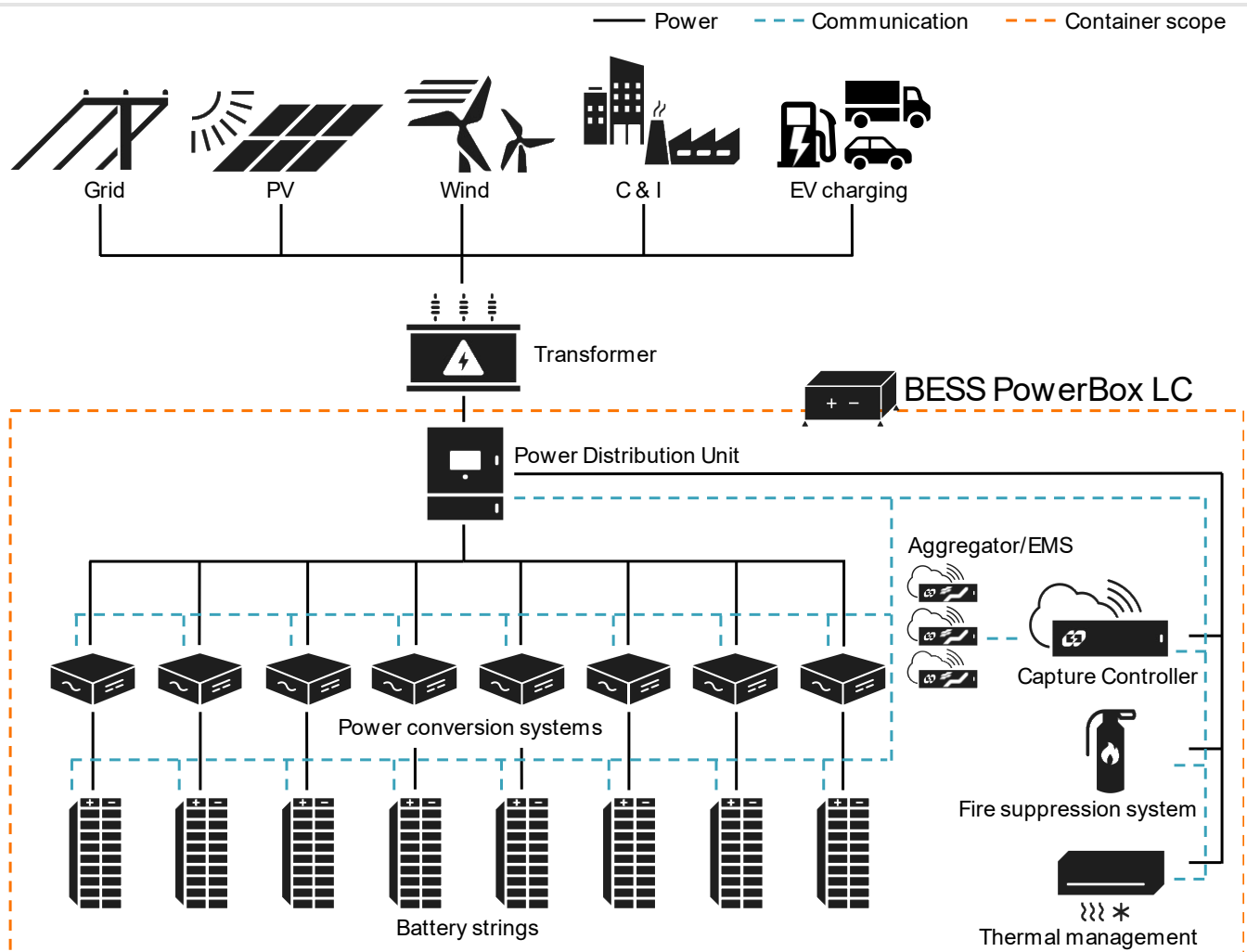
Abbreviations

FSS **Fire Suppression System**

PDU **Power Distribution Unit**

PCS **Power Conversion System**

HVU **High Voltage Unit**



Capture Controller

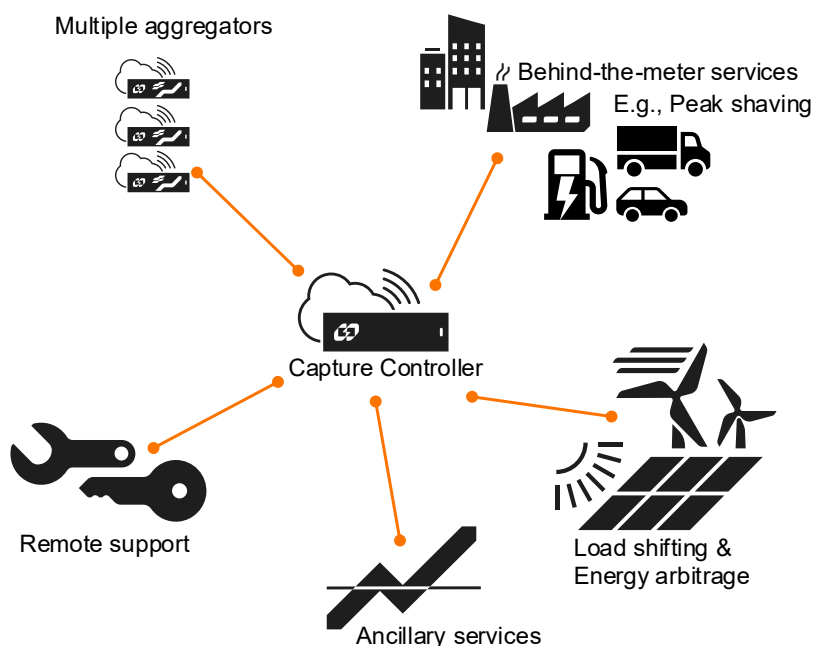
Energy Management Information System (EMIS) with fast response time and support for multiple aggregators locally on site. Integrated with 15+ aggregators and energy management systems.

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

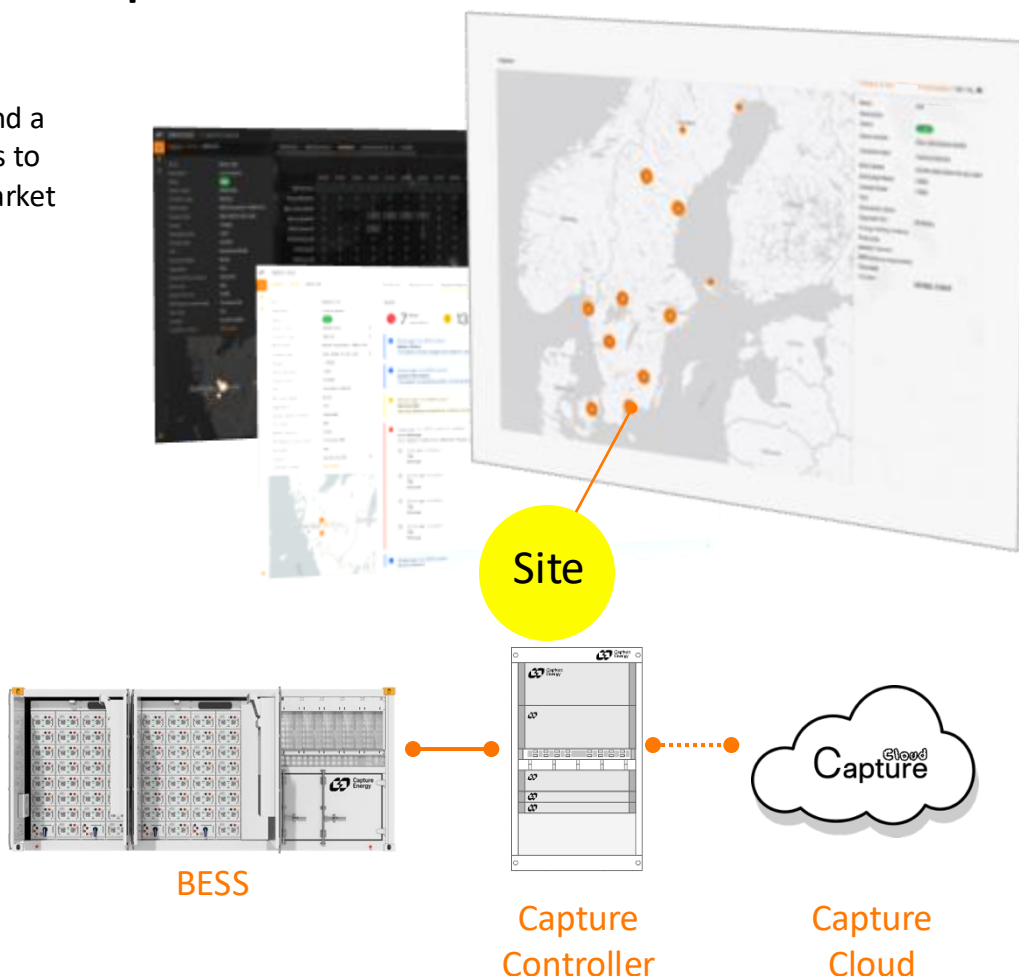
Comprehensive tools for administering your customers and installations.

Aggregator Portal

Analyze revenue trends and assess service levels delivered to customers.

CE Operations Portal

Secure BESS optimized operations services and asset management.



Contact

Sweden

Capture Energy AB

Lilla Bommen 3

411 04 Göteborg

Sweden

Capture Energy AB

Götgatan 78

118 30 Stockholm

Sweden

Norway

Capture Energy AS

Dokka 6

1671 Fredrikstad

Norway

Denmark

Capture Energy ApS

Tinghusgade 43

5700 Svendborg

Denmark

Finland

Capture Energy Oy

Mikonkatu 9

00100 Helsinki

Finland

mail@captureenergy.eu



Notes

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