

1 MW / 1.2 MWh

Trailer-mounted Battery Energy Storage System (BESS)

The Aggreko trailer-mounted 1 MW/1.2 MWh rapid deploy large-node Battery Energy Storage System (BESS) is designed and built for the most energy-intensive applications. By combining a containerized, mobile design with reliable performance, this battery stands ready for the most demanding settings and the most unpredictable loads, delivering dependable energy and zero emissions.

FEATURES

Wide operating temperature range (-4 °F to 122 °F).

Power Conversion System that combines inverter and charger (Bi-directional).

ECO controller (HMI with 12") touch screen provides intuitive control and monitoring for all batteries and power electronics integrated in the battery pack. Setting operating parameters and performance check.

Overload capability $\leq 110\%$ of nominal value (max. 10 min).

Delivers zero CO₂ emissions, low noise and minimum maintenance needs, enabling operators to minimize environmental impact.

Designed for ease of maneuverability and transportation.

Designed and built to Aggreko's uncompromising quality standards.

Time scheduling, enable BESS to take over loads for low emission or low noise periods at specific intervals.

Low noise levels, ideal for projects in noise sensitive areas.

1 MW

1.2 MWh



BENEFITS

Reduction in emissions and total cost of power.

Environmentally friendly, helps meet emissions regulations.

Reduced generator run time and fuel consumption, enabling cost savings and autonomy.

Enables management of variable loads by storing excess energy for later, increasing reliability and eliminating light load periods.

Reliable and intuitive controls for ease of use and diagnostic capabilities.

Increased utilization with simple service and long service intervals.

Fast installation and commissioning.

Backed by Aggreko's support, including remote monitoring, for enhanced reliability and uninterrupted operation.

Seamlessly integrates with the entire Aggreko eco-system, simplifying installation and commissioning.

Renewable optimizations, ability to work with other power sources such as wind or solar to maximize use of renewables.

Ideal for use as part of an on or off-grid system. Can be used in island mode as hybrid solution together with a diesel generator or in parallel with more energy storage systems.

Key data

Delivered power	1,000 kW
Energy capacity	1,232 kWh
AC voltage allowable range	
AC INPUT voltage range	480 V +/- 10%
AC OUTPUT voltage - 60HZ	480 V

Certification

Declaration of conformity	UL 9540, UL9540A, UL1973, IEEE 1547, UL 1642, UL1741, CSA 22.2#107.1, UN 3536, UN 38.3
---------------------------	--

Physical data (with trailer)

Length	473 in
Width	101 in
Height	157 in
Weight (net)	67,766 lbs

Lifting

Forklift	No
Overhead	Yes

Output (when external source available)

Maximum load (all phases) before generator start command (kW)	Configurable based on application
---	-----------------------------------

Output (stand alone)

Standby rating (kW)	1,100 kW (max 10 min)
Prime rating (kW)	1,000 kW

Energy storage

Technology	Lithium Iron phosphate LiFePO4
Type	76.8NESP200
Operating temperature	-4 °F to 122 °F
D.C. power	1,000 kW
Energy capacity (nominal)	1,232 kWh
Energy capacity (usable)	1,105 kWh
Charge time (minimum)	1 hour (2 hour preferred)

Power connectors

Connection type	Camlock or Busbar
Max pass through current/phase	Common bus arrangement
Isolation transformer Included	Yes
Multiple BESS	Yes in parallel

Fire suppression system

Suppressant type	NOVEC 1230
------------------	------------