



GREENER UPGRADES™

500 kW/250 kWh Battery Energy Storage System (BESS)



A greener solution for a more efficient performance.

Our mid-node 500 kW/250 kWh Battery Energy Storage Systems (BESS) are designed to satisfy a variety of on and off-grid applications, enabling reduced emissions and costs. With their fully integrated, plug-and-play design, they can supply power in the most demanding situation, offering flexibility, reliability and efficiency, without any required capex. These batteries can be operated in island mode, as a part of a hybrid solution with a generator or in parallel with additional BESS, and is ideal for renewable power applications.

Benefits

- 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 utilisation 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

Features

- Wide operating temperature range
- Power Conversion System that combines inverter and charger
- Low internal resistance and high efficiency
- ECO controller provides intuitive control and monitoring for all batteries and power electronics integrated in the battery pack
- Overload Capability $\leq 10\%$ of nominal value (max. 1 min)
- Delivers zero CO₂ emissions, zero noise, and have zero maintenance needs, enabling operators to minimise environmental impact
- Designed for ease of manoeuvrability and transportation
- Emergency stop
- Designed and built to Aggreko's uncompromising quality standards



500 kW/250 kWh Battery Energy Storage System (BESS)

Key data

Delivered power	500 kW
Energy capacity	246 kWh
AC INPUT voltage range	400 V
AC OUTPUT voltage – 50HZ	400 V

Certification

Declaration of conformity	CE Certified, IEC 62619, IEC 62477 UN 3536, UN 38.3, IEEE 1547
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Physical data

Length	9.8 ft (2991 mm)
Width	8 ft (2438 mm)
Height	9.5 ft (2896 mm)
Weight (gross)	22,046 lbs (10,000 kg)
Weight (net)	22,046 lbs (10,000 kg)

Lifting

Forklift	Yes
Overhead	Yes

Output (when external source available)

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

Standby rating (kW)	550 kW (max 10 min)
Prime rating (kW)	500 kW



Energy storage

Technology	Lithium Iron phosphate LiFePO ₄
Type	76.8NESPI60
Operating temperature	-20 °C to 55 °C, De-rate above 45 °C
D.C. power	500 kW
Energy capacity (nominal)	246 kWh
Energy capacity (usable)	221 kWh
Charge time (minimum)	0.5 Hour

Power connectors

Connection type	Busbar
Max pass through current/phase	Common Bus arrangement
Isolation transformer included	Yes

Fire suppression system

Suppressant type	NC 1230
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