



# 250 kW/575 kWh Battery Energy Storage System (BESS)

## A greener solution for a more efficient performance.

Our mid-node 250 kW/575 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 CO<sub>2</sub> 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



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## Key data

<b>Delivered power</b>	250 kW
<b>Energy capacity</b>	575 kWh
<b>AC INPUT voltage range</b>	400 V
<b>AC OUTPUT voltage – 50HZ</b>	400 V

## Certification

<b>Declaration of conformity</b>	CE Certified, IEC 62619, IEC 62477 UN 3536, UN 38.3, IEEE 1547
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## Physical data

<b>Length</b>	9.8 ft (2991 mm)
<b>Width</b>	8 ft (2438 mm)
<b>Height</b>	9.5 ft (2896 mm)
<b>Weight (gross)</b>	24,251 lbs (11,000 kg)
<b>Weight (net)</b>	24,251 lbs (11,000 kg)

## Lifting

<b>Forklift</b>	Yes
<b>Overhead</b>	Yes

## Output (when external source available)

<b>Maximum load (all phases) before generator start command (kW)</b>	Configurable based on application
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## Output (stand-alone)

<b>Standby rating (kW)</b>	275 kW (max 10 min)
<b>Prime rating (kW)</b>	250 kW



## Energy storage

<b>Technology</b>	Lithium Iron phosphate LiFePO <sub>4</sub>
<b>Type</b>	76.8NESP250
<b>Operating temperature</b>	-20 °C to 55 °C, De-rate above 45 °C
<b>D.C. power</b>	250 kW
<b>Energy capacity (nominal)</b>	575 kWh
<b>Energy capacity (usable)</b>	518 kWh
<b>Charge time (minimum)</b>	2 Hours

## Power connectors

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

## Fire suppression system

<b>Suppressant type</b>	NC 1230
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