



GREENER UPGRADES™



1 MW/1.2 MWh UL Battery Energy Storage System (BESS)

Our 1 MW/1.2 MWh UL BESS serves peak energy demands by providing peaking capacity and energy storage as a part of an integrated system. By combining a mobile, modular design with performance optimization controls and high energy/high power capability, our solution offers flexible and reliable multi-application energy management for maximum efficiency. It supports the reduction of fuel consumption, downtime and emissions, delivering reduced cost of energy with a higher power reliability.

Features

- Intelligent energy and power control module with touchscreen display
- Containerized design and flexible maneuverability with crane lift
- Designed and built to Aggreko's uncompromising quality standards
- Suitable for grid forming and grid following applications
- Wide ambient temperature range, from -10 C to 45 C
- Variable charge time (ability to charge by 1,000 kW in 1 hour or 100 kW in 10 hours)
- Easy integration with many utilities as well as most of Aggreko's power generation assets
- Built-in HVAC, fire detection and suppression system, DC collector, auxiliary power, and hydrogen detection and purging system
- Modbus interface for end-user SCADA integration
- BESS system meets UL9540 and UL9540A safety standards
- Inverter meets UL 1741 SA performance standards & CSA 22.2 #107.1 safety standards



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Battery

Key Data

DC Output Voltage (Range)	873.6 VDC - 1123.2 VDC
DC Output Voltage (Nominal)	998.4 VDC

Physical Data

Length	238.5 in (6,058 mm)
Width	96 in (2,438 mm)
Height	114 in (2,896 mm)
Weight (Gross)	48,500 lbs (21,999 kg)
Weight (Net)	48,500 lbs (21,999 kg)

Energy Storage

Technology	Lithium Iron Phosphate (LFP)
D.C Power	1,000 kW
Energy Capacity (Nominal)	1,200 kWh
Energy Capacity (Usable)	1,000 kWh
Charge Time (Minimum)	1 hour

Power Connectors

Output	Quick connects (included)
Auxiliary Power	208/120 V, 3-PH, 60Hz from 45 kVA 480 V Transformer (included)
Standard/Certifications	UL9540, UL9540A

PCS (Inverter) Used in Conjunction with Battery

Key Data

AC Voltage Allowable Range	+/- 10%
AC Output Voltage 60HZ	480 VAC

Output

AC Output Power	1,000 kW
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PCS (Inverter) Used in Conjunction with Battery

Physical Data

Length	102 in (2,591 mm)
Width	96 in (2,438 mm)
Height	118 in (2,997 mm)
Weight (Gross)	11,000 lbs (4,990 kg)
Weight (Net)	11,000 lbs (4,990 kg)

Power Connectors

Output (PCS)	Busbar. 480 V Delta
Output (Isolation Transformer)	Cam-lock, 480 V WYE
Auxiliary Power	Self-derived from AC or DC source

Power Connectors

Bi-directional Inverter	Yes
Isolation Transformer Included	Yes
Standards / Certifications	IEEE 1547, UL 1741 SA

Benefits

- Helps meet emissions regulations and environmental responsibility targets
- Reduces generator run time, thereby decreasing fuel consumption and providing cost savings
- Significantly reduces environmental noise
- Enables management of variable loads by storing excess energy for later
- Supports a wide range of applications
- Enables smarter, safer and reactive grid interconnection
- Features all-in-one design for more efficient commissioning timescale
- Backed by Aggreko's support, including remote monitoring, for uninterrupted operation