JDENERGY

Galaxy 2

SMART INTEGRATION
CORE INNOVATION UPGRADED
STRING-TYPE BESS CONTAINER

Intelligent energy block Galaxy-2
6250kWh Energy Storage System

Economically Efficient Ultimate Safety Grid Friendly Intelligent Operation and Maintenance

Galaxy 2

GRID-SIDE SOLUTION

Economically Efficient

- Dual-Circuit Liquid Cooling: Maintains ⩽3°C cell temperature deviation across container.
- String Architecture: 100% Depth of Discharge (DoD) with zero capacity loss.
- High System RTE: ⩾90% round-trip efficiency per container.
- Smart Thermal Management: Intelligent temperature control maximizes cycle life and ROI.

Ultimate Safety

- Three-Level Fuse Protection: Multi-tier overcurrent safeguarding from cell to system.
- Integrated BMS+PCS+EMS control and protection architecture.
- 2-hour fire endurance rating with high-temperature resistance.

Grid friendly

- Advanced Grid Support: Primary/Secondary frequency regulation, AGC/AVC capabilities.
- Flexible Operation Modes: Peak shaving, valley filling, and demand charge management.
- Single rack management, no inter rack circulation, improve the system energy charge/discharge capacity.

Intelligent operation and maintenance

- Versatile Applications: Utility-scale (generation-grid side) and C&I medium voltage projects.
- Plug-and-Play Design: Standard 20-foot ISO container for easy global shipping and installation.
- All-in-One Integration: Highly integrated AC/DC architecture minimizing footprint and commissioning time.

SYSTEM DATA

Operating Temperature	-30°C~55°C
Operating Humidity	0% ~ 95% RH (non-condensing)
Altitude	⩽2000m
Thermal Management Methods	Liquid cooling (Battery+PCS)
Fire Suppression System	Thermal Runaway Mitigation System
System Protection Level	IP55 (Battery compartment)
Communication Protocols	IEC 104/IEC 61850/ Modbus Tcp

AC SIDE PARAMETERS

Rated Power	3125kW (2h) / 1563kW (4h)
Rated Grid Voltage	690VAC (-15%~10%)
Grid Frequency	50/60Hz
Current THD	＜3%
Power Factor	＞0.99 (Rated power)
Overload Capability	110% for 10 min, 120% for 1 min
Dimensions (L*W*H)	6058*2438*3400(2h) / 3100(4h)
Total Weight	49000kg(2h) / 48000kg(4h)
Installation Mode	Hoisting

DC SIDE PARAMETERS

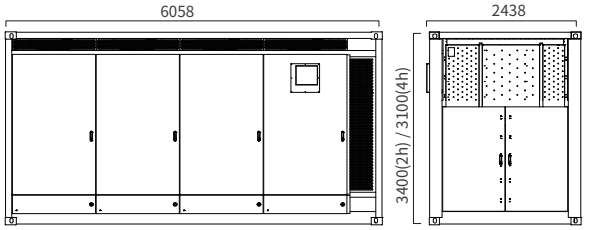
Cell Type	LFP 3.2V/587Ah
Battery capacity	6250kWh
DC rated voltage	1331.2V
DC voltage range	1164.8V-1497.6V
Configuration	1P416S*8
Charge-Discharge Rate	0.5P(2h) / 0.25P(4h)
Number of Cycles	⩾10000 Cycles

PCS DATA

PCS Technology	SiC
PCS Power Rating	430kW*2(2h) / 215kW*2(4h)
DC Input Voltage	1000V-1500V
Grid-Forming Capability	Enabled
Black Start Function	Enabled

MECHANICAL PARAMETER

unit:mm



Tolerance: Length ±2mm, width ±2mm

*JDEnergy reserves the right of final interpretation for all data contained in this specification.(202605 V1.0)

Xi'an JDEnergy Co., Ltd.

029-84845916 / 400-1336580 www.jdenergy.com

Headquarters Address: No. 25, West Section of First Biyuan Road,High-tech Zone, Xi' an City, Shaanxi, China