



AC/DC Integrated Energy Storage System

1000kW/2036kWh

BSA1000-2036AL

CATL

Battery Packs

400VAC Output

20feet

Standard Cabinets(2591mm Height)

≥10000 Cycles

OTA

Remote Upgrade

Compatible with Hybrid Scenarios



High Safety

Equipped with CATL's thermally stable LFP batteries, featuring IP67-rated battery enclosures for robust environmental protection.

Integrated battery health monitoring system, enabling lifecycle prediction, health evaluation, and real-time safety alerts.

Four-level safety defense ("Monitor → Early Warning → Alarm → Intervention") across cell, pack, rack and container levels, providing full-system protection.



High Performance

Features CATL's long-life cells with ≥10000 cycles, up to 12000 cycles.

Supports fast frequency modulation response.



High Intelligence

Equipped with CESS (Charger Energy Storage System), enabling rapid upgrade of "PV-Energy Storage-EV charging-Diagnosis" microgrid technologies and solutions.

Equipped with AI algorithms dynamically balance grid power, PV generation, user-defined or imported tariff policies, and real-time loads to maximize system efficiency.

Supports OTA (Over-The-Air) remote diagnosis and online operation and maintenance.



High Compatibility

Uses 400Vac output for easy access to low-voltage transformers and various AC loads.

Supports various energy inputs (PV/wind/diesel generators) and multiple load scenarios (charging stations/industrial parks/commercial CBDs).



Industrial Parks



Commercial CBDs



Charging Stations



Parking Lots



Vitural Power Plant

BSA1000-2036AL

General

Appearance	Logo, Silk Screen Printed (Customizable)
Dimensions(W*D*H)	6058(W)*2438(D)*2591(H)mm
Weight	≈26.8 tons

Electrical Parameters

AC Output Power	1000kW
DC Operating Voltage Range	615~950V (3W+PE) ; 650~950V (3W+N+PE)
AC Rated Output Voltage	400VAC, (±15%)
Three-phase Imbalance	100%
THDi	<2%(Rated Power)
Rated Output Frequency	50/60Hz

Environment

Cooling Type	Battery: Liquid cooling; PCS: Air Cooling
Protection Level	Container ≥IP54; Pack ≥IP67
Temperature & Humidity Range	-20~50°C & 0~95% Non-Condensing
Altitude	4000m (>2000m Derated Operation)
Noise	TBD

Energy Storage Battery Parameters

Cell Chemistry	LFP
Rated Battery Capacity	2036kWh
Charge/Discharge Rate	0.5P
Rated DC Voltage	832V
DC Voltage Range	650~949V
Cycle Life	10000 Cycles 25°C, 0.5P

Testing and Certification:

UN38.3, UL1973, IEC62619, UL9540A, IEC62477, IEC61000, EN50549-1, EN50549-2, G99, Australia AS/NSZ 4777