

ESS-BATT Cubicon Series

The Ultimate Battery Solution for Large-scale Applications



ESS-BATT Cubicon Series battery system is engineered to meet the vast energy demands of industrial and commercial enterprises. As the most powerful model in BSLBATT's acclaimed ESS-GRID series, the system offers unmatched energy storage capacity, ensuring a reliable and continuous supply of power for demanding applications.



200 - 2.41MWh



100 - 1.2MW



0.5C



716.8 - 768Vdc



Powering Industries with Flexibility and Protection



High energy density

Adopting 280Ah / 314Ah high-capacity cells, the capacity of a single battery pack can reach 16kWh.



Modular and Expandable

The system can be expanded in a single battery cabinet, up to 10 in parallel, easily reaching megawatt class.



Dual-stage fire protection

Battery packs and battery cabinets are equipped with a fire protection system that does not generate open flames and protects property.



Long Service Life

Comprised of Tier one A+ LFP Cell with over 6000 cycles and a service life of over 10 years.



Highly Integrated

The system is fully productized, integrating LFP ESS batteries, EMS, FSS, TCS, IMS, BMS.

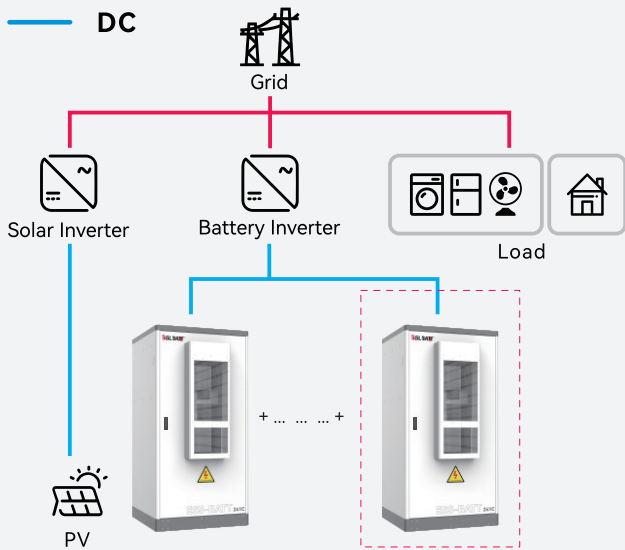


Remote Monitoring

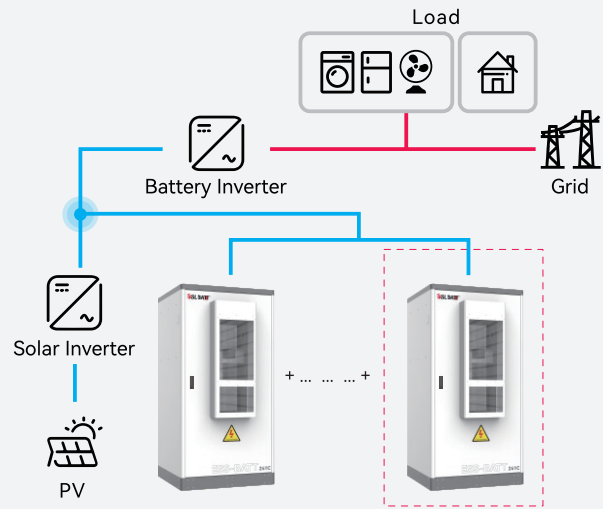
Remote data monitoring and battery upgrades minimize aftermarket costs, worry free from service.

AC & DC COUPLED SYSTEM

— AC
— DC

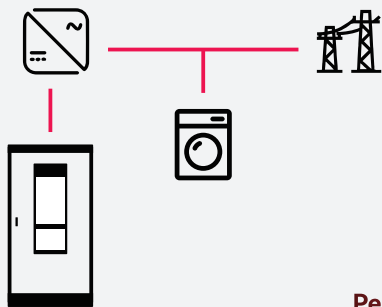


AC Coupled

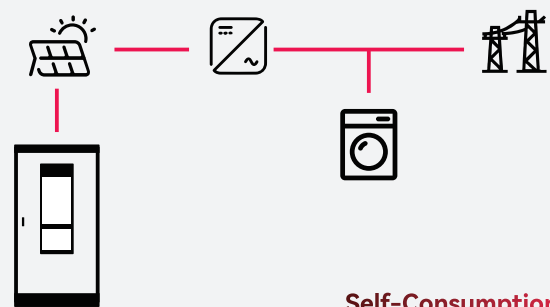


DC Coupled

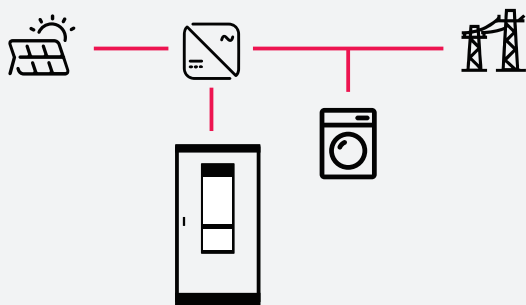
APPLICATION SCENARIOS



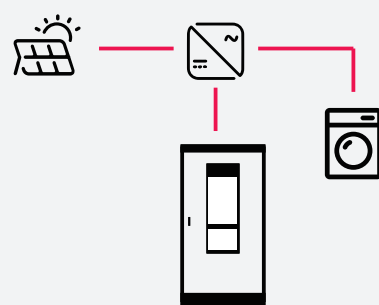
Peak Shaving



Self-Consumption

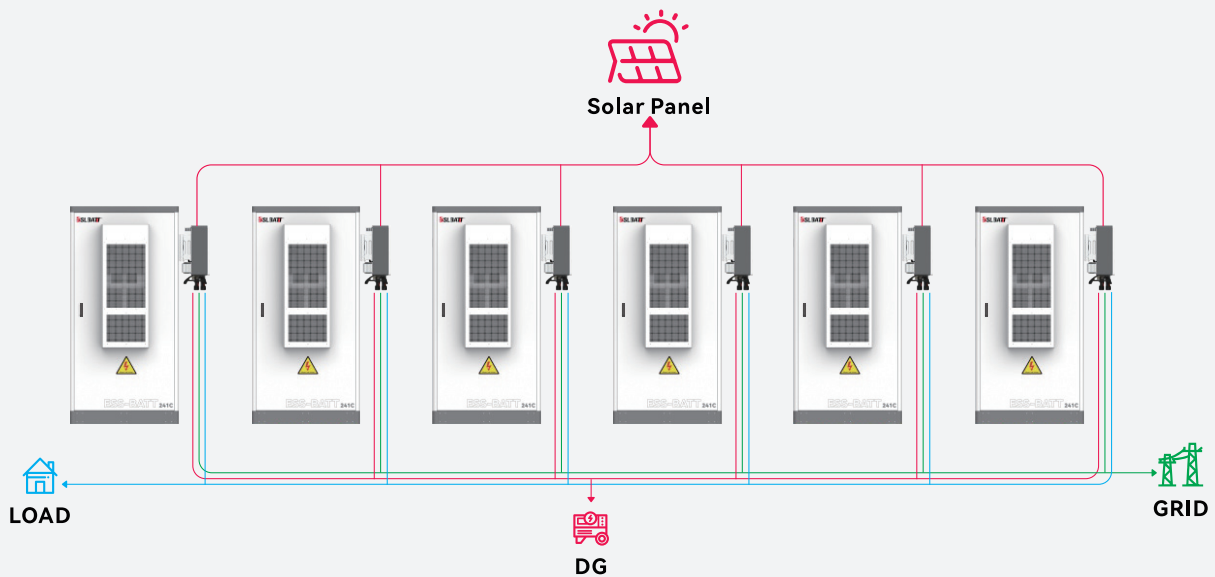
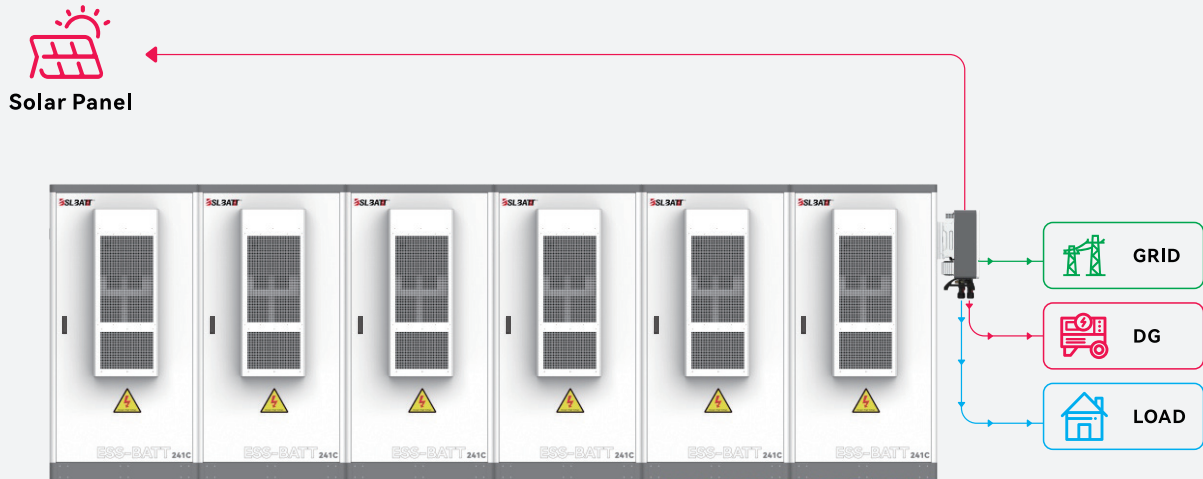


Energy Generation Surplus



Emergency

Large Capacity Together with Large Flexibility



► Battery Pack

Series and parallel	16S1P	16S1P
Rated capacity	280Ah	314Ah
Rated voltage	DC51.2V	DC51.2V
Voltage range	40V~58.4V	40V~58.4V
Rated energy	14.33kWh	16.07kWh
Max. charge current	140A	157A
Max. discharge current	140A	157A
Protection level	IP20	IP20
Discharge temp.	-20°C~55°C	-20°C~55°C
Charge temp.	0°C~45°C	0°C~45°C
Dimension	755*415*234(±5mm)	755*415*234(±5mm)



► High Voltage Box

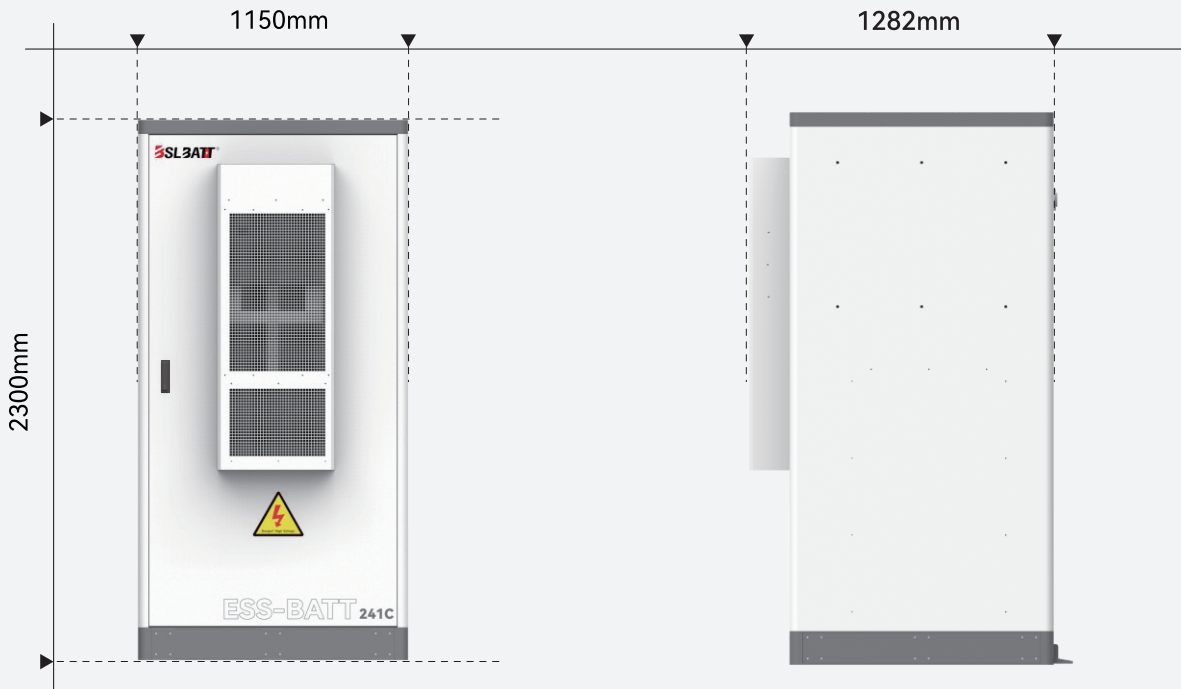
Model	1500-250
Allowable voltage	0-1500V
Allowable current	0-250A
DC supply voltage	24V
Ambient temperature	-25°C~60°C
Battery type	Lithium iron phosphate/lead acid
Protection class	IP20
Protection level	I
Relative humidity	0-95% (non-condensing)
Altitude	2000m (reduced over 2000m)
BMS communication	CAN
EMS communication	Ethernet/485
Master-Slave communication	Daisy Chain
Dimension (W*D*H)	750*470*227.5mm
Weight	24.9kg



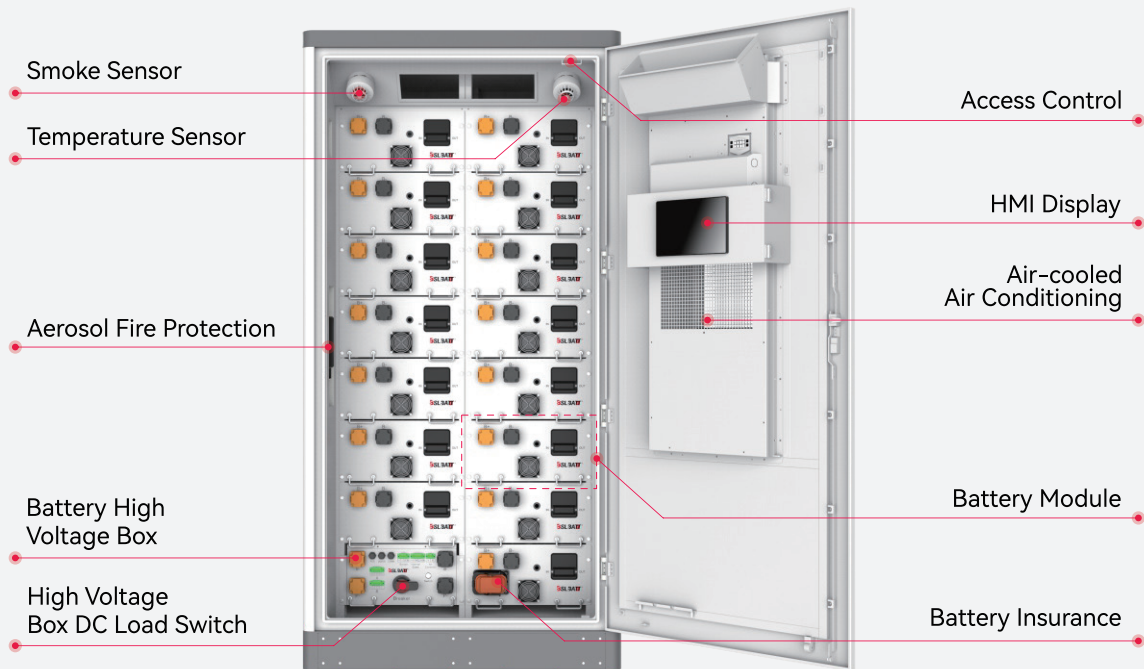
Item	General Parameter			
Model	ESS-BATT-200C	ESS-BATT-215C	ESS-BATT-225C	ESS-BATT-241C
Series and Parallel	16S1P*14=224S1P	16S1P*15=240S1P	16S1P*14=224S1P	16S1P*15=240S1P
Cooling Method	Air-cooling			
Rated Capacity	280Ah		314Ah	
Rated Voltage	DC716.8V	DC768.0V	DC716.8V	DC768.0V
Operating Voltage	627.2V~795.2V	672.0V~852.0V	627.2V~795.2V	672.0V~852.0V
Cell Capacity	200.7kWh	215.0kWh	225.0kWh	241.1kWh
Rated Charge Current	140A		157A	
Rated Discharge Current	140A		157A	
Peak Current	200A(25°C, SOC50%, 1min)			
Protection Level	IP55			
Firefighting Configuration	Hot-air aerosol			
Discharge Temp.	-20°C~55°C			
Charge Temp.	0°C~55°C			
Humidity Range	10% ~ 90% RH (No Condensation)			
Storage Temp.	0°C~35°C			
Altitude Limit	3000m			
Cycle Life	>6000 Cycles (80% DOD @25°C 0.5C)			
Dimension(mm)	1150*1282*2300(±5)			
Weight(With Batteries Approx.)	2210Kg ±3%	2300Kg ±3%	2247Kg ±3%	2360Kg ±3%
System Operating Temp.	-40°C~55°C			
Communication Protocol	CAN / RS485 ModBus / RTU			
Noise Level	70dB			
Functions	Pre-charge, Over-Less Voltage/Over-Less Temperature Protection, Cells Balancing/SOC-SOH Calculation etc.			
Certifications	UN38.8		UN38.3 / EC62619 / IEC62477 / IEC62040 / IEC61000 / CE	

Note: The above models are typical configurations, and can also be used for micro-grid and other scenarios with optional photovoltaic charging modules, switching modules, industrial frequency transformers and other components, integrated optical storage, and integrated system cabinets.

Dimension (L*W*H)



System Productization



Note: Different projects are configured with different battery PACK quantities and specifications, with slightly different structures.



“Harnessing Energy, Elevating Lives.”

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