

# 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.

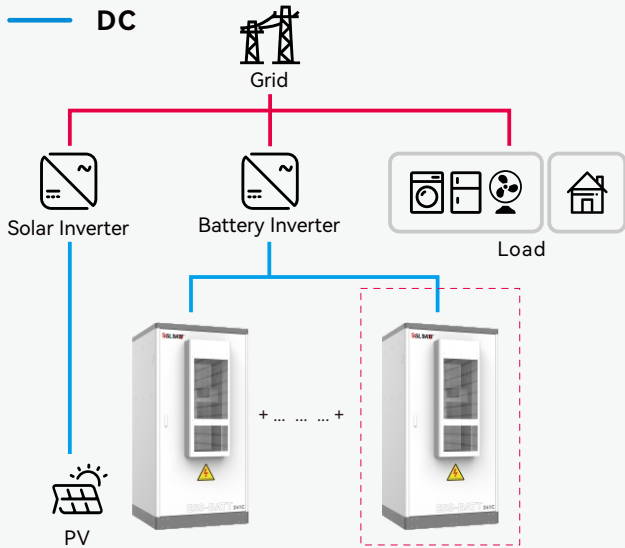


## Remote Monitoring

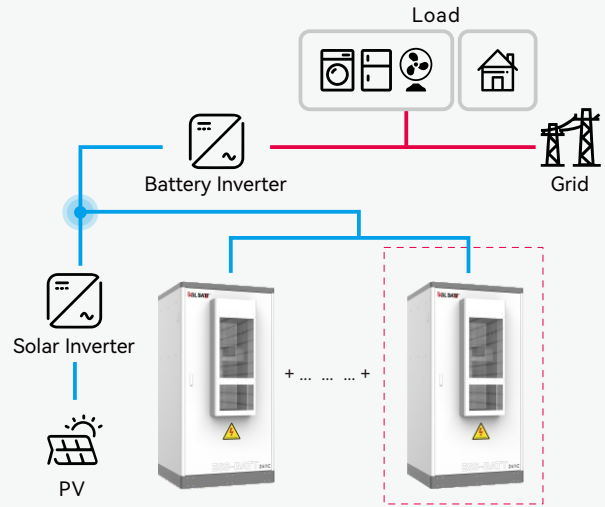
Remote data monitoring and battery upgrades minimize aftermarket costs, worry free from service.

## AC & DC COUPLED SYSTEM

— AC  
— DC

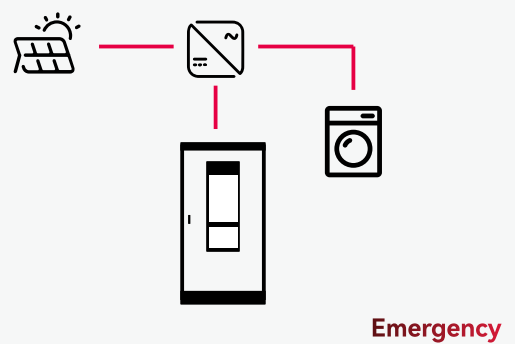
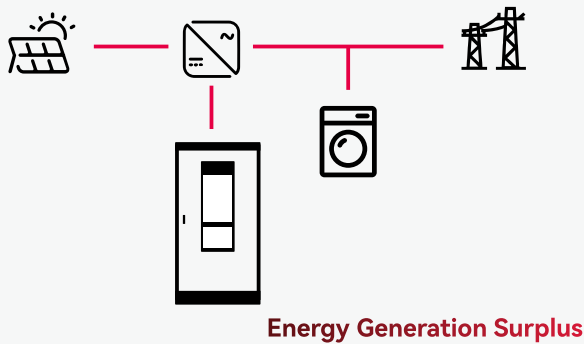
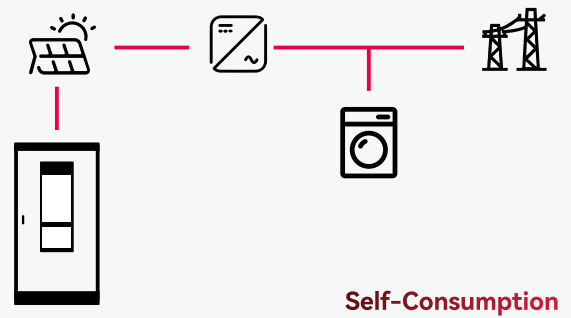
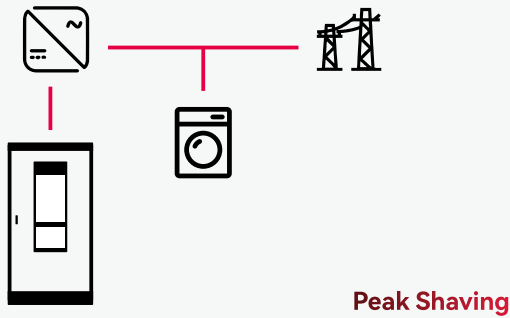


AC Coupled

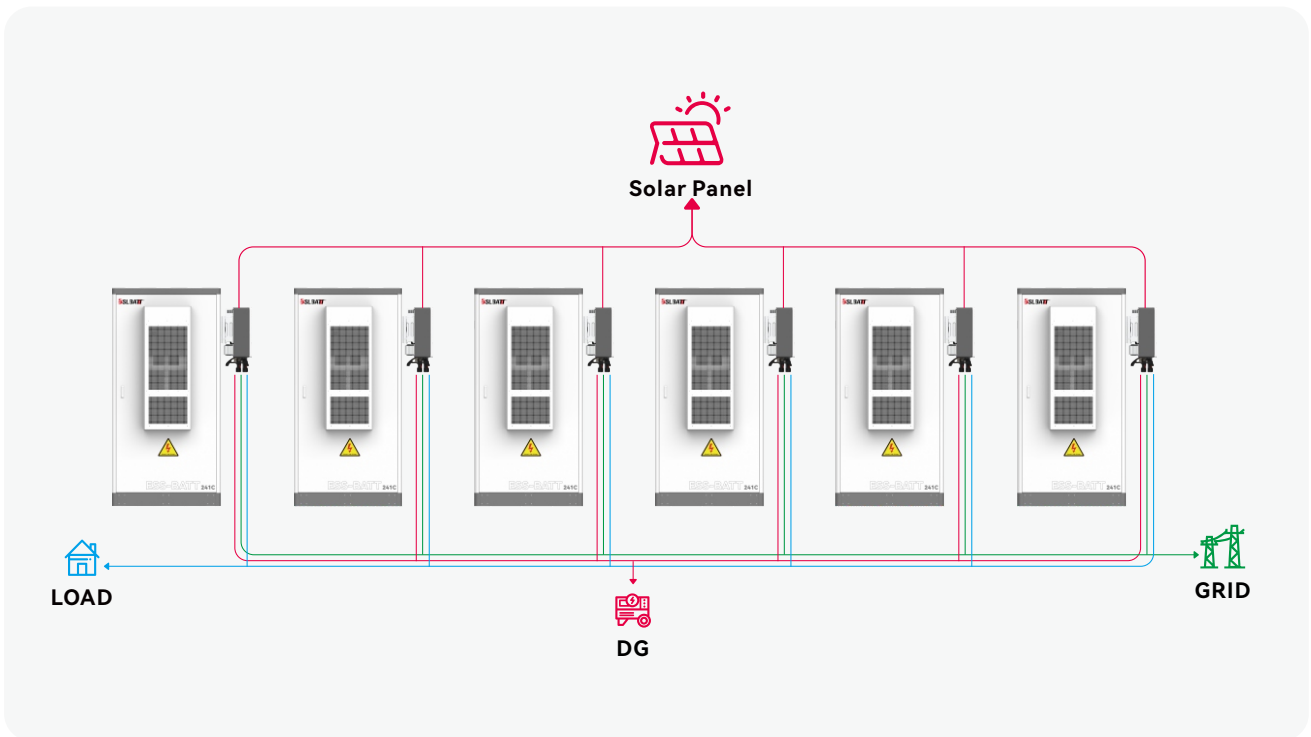
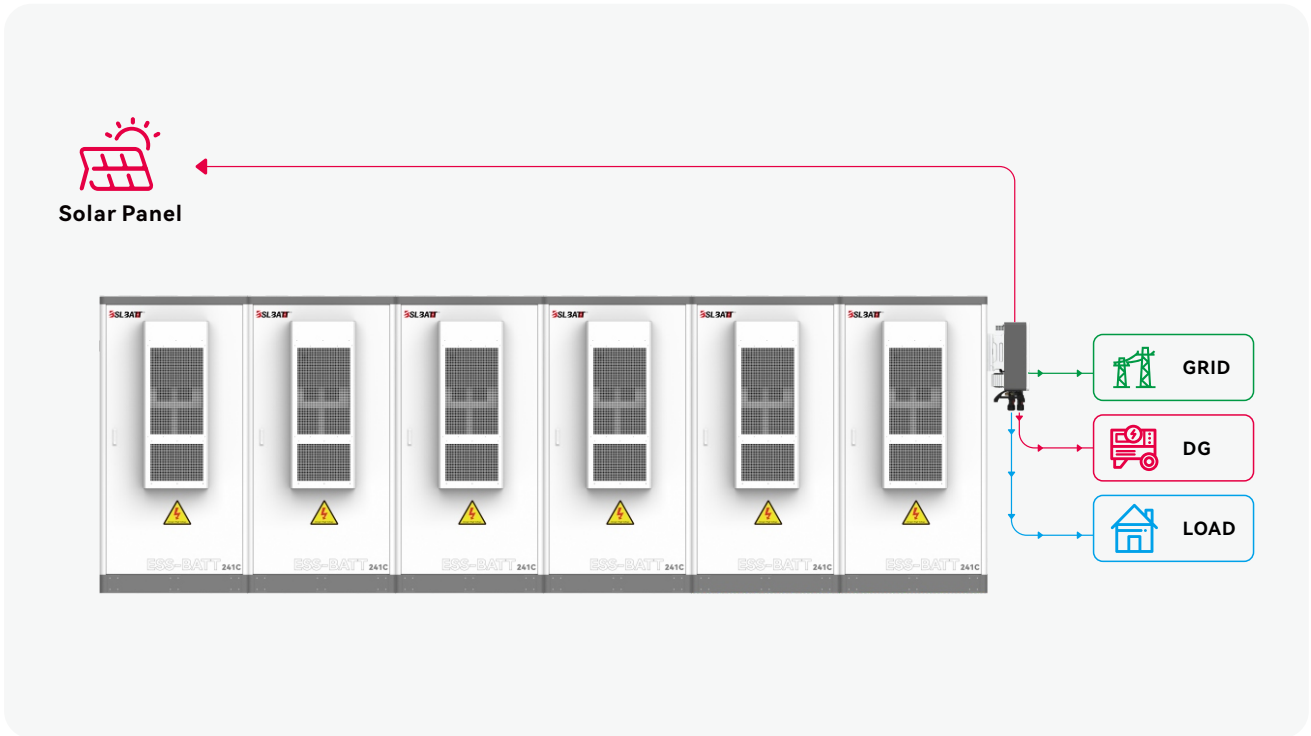


DC Coupled

## APPLICATION SCENARIOS



# 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

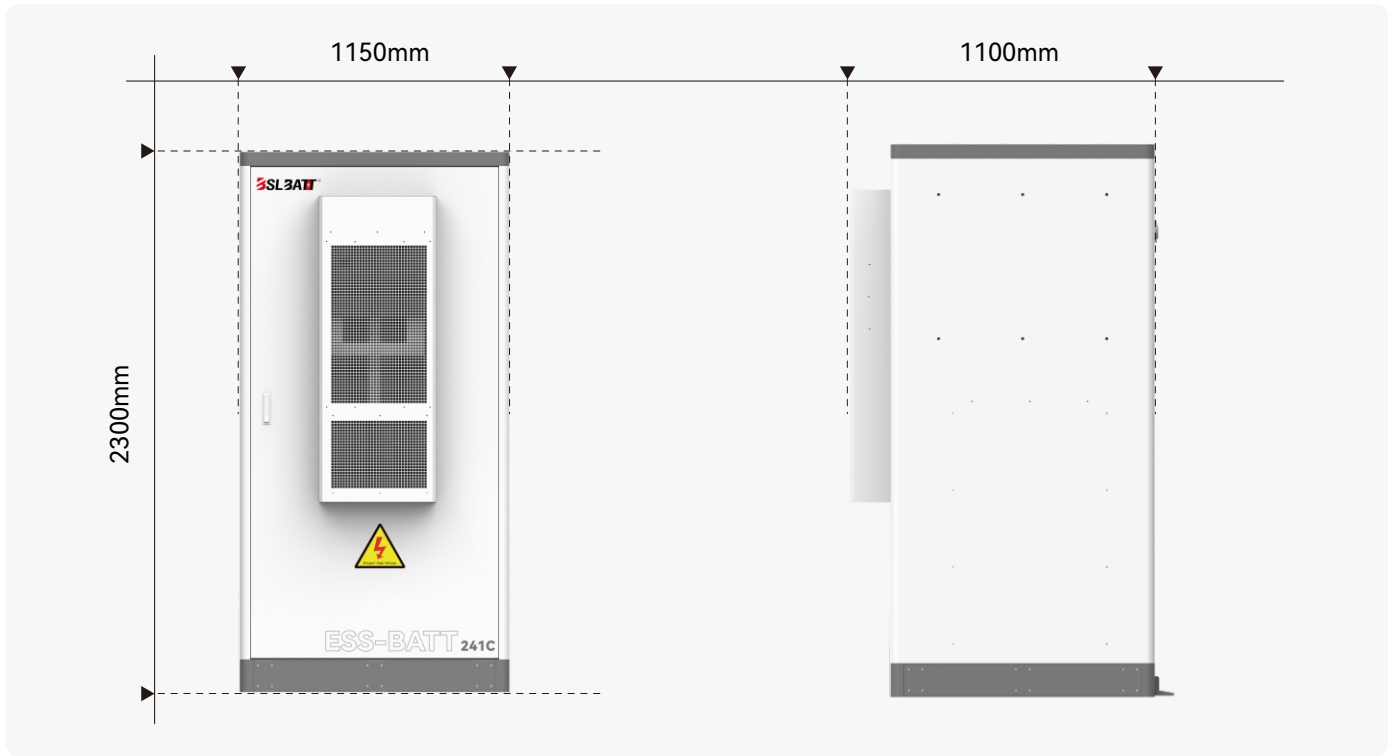




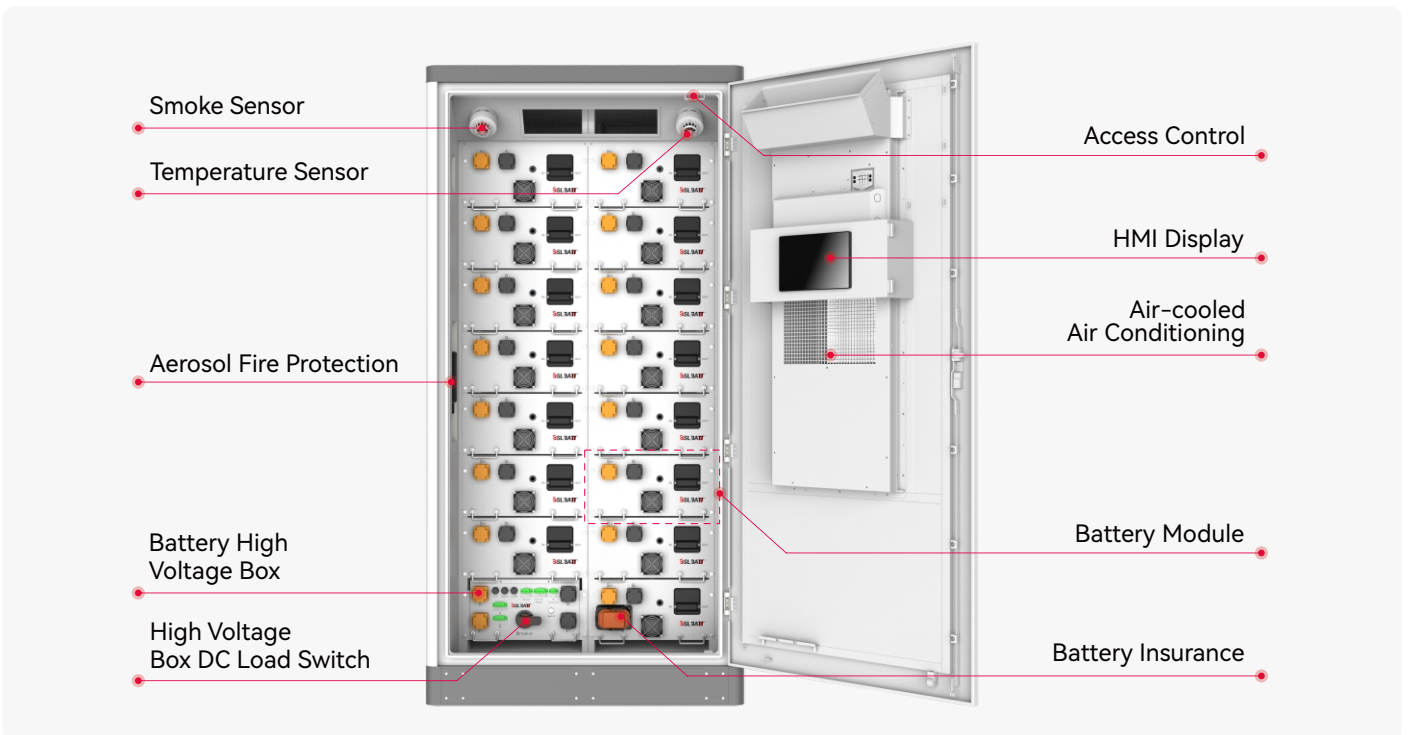
Item	General Parameter			
	ESS-BATT-200C	ESS-BATT-215C	ESS-BATT-225C	ESS-BATT-241C
Model	ESS-BATT-200C	ESS-BATT-215C	ESS-BATT-225C	ESS-BATT-241C
Series and Parallel	16S1P*14=224S1P	16S1P*15=240S1P	16S1P*14=224S1P	16S1P*15=240S1P
Cooling Method	Air-cooling			
Rated Capacity	280Ah		314Ah	
Rated Voltage	DC716.8V	DC768V	DC716.8V	DC768V
Operating Voltage Range	560V~817.6V	600V~876V	560V~817.6V	600V~876V
Voltage Range	627.2V~795.2V	627.2V~852V	627.2V~795.2V	627.2V~852V
Cell Capacity	200.7kWh	215kWh	225kWh	241kWh
Rated Charge Current	140A		157A	
Rated Discharge Current	140A		157A	
Peak Current	200A(25°C, SOC50%, 1min)			
Protection Level	IP54			
Firefighting Configuration	Pack level + Aerosol			
Discharge Temp.	-20°C~55°C			
Charge Temp.	0°C~55°C			
Storage Temp.	0°C~35°C			
Cycle Life	> 6000 Cycles (80% DOD @25°C 0.5C)			
Dimension(mm)	1150*1100*2300(±10)			
Weight(With Batteries Approx.)	1580Kg	1630Kg	1680Kg	1750Kg
Dimension(W*H*D mm)	173.7*72*204.6		173.7*72*207.2	
Weight	5.4±0.15kg		5.45±0.164kg	
Operating Temp.	-20°C~55°C			
Communication Protocol	CAN/RS485 ModBus/TCP/IP/RJ45			
Noise Level	< 65dB			
Functions	Pre-charge, Over-Voltage/Over-Temperature Protection, Cells Balancing/SOC-SOH Calculation etc.			

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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**BSL NEW ENERGY TECHNOLOGY CO., LTD**

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