

Battery Energy Storage System (BESS)



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Our state-of-the-art BESS integrates advanced LFP batteries, standardized power conditioning system, and energy management system. It benefits the entire power value chain, from generation, transmission up to distribution and all the way to users.

Energy Storage Application

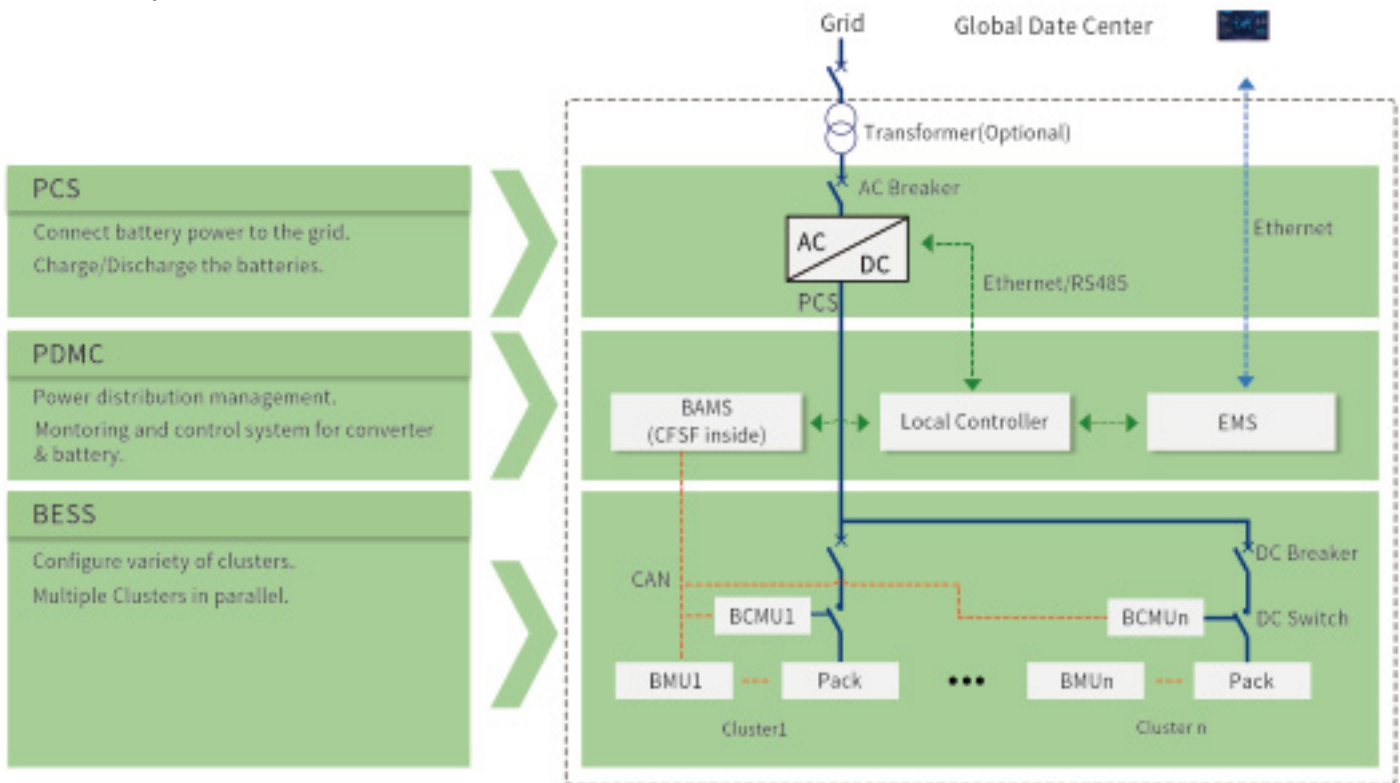
- ▶ Renewable Capacity Firming
- ▶ Renewable Power Smoothing
- ▶ Microgrid Operation
- ▶ Back up Power & Load Following
- ▶ Frequency & Voltage Regulation
- ▶ Peak Shaving
- ▶ Back up Power & Load Following
- ▶ Arbitrage Energy Trading & Time Shifting
- ▶ T&D investment deferral

Technical Advantage

Modular Designs: Various Battery Cluster capacities ranging from 100 kWh to 2 MWh. Configurable PCS solutions from 100 kW to 1 MW. Standardized monitoring and management platform (SMMP) and Smart dynamic environment monitoring including monitoring for firefighting, alarm, temperature and humidity.

High Performance Battery Solution: Selected and optimized LFP batteries for enhanced life cycle. BMS balance mode options for active and passive strategies. Originally designed Cluster Flexible Switching Function (CFSF) in order to ensure safe, reliable and resilient operation of battery system.

Flexible Operation Mode: Support both grid-connected and off-grid applications with seamless transition mode. Highly integrable for various auxiliary functions.



*Passion for Storage
and Green Energy*




锂电集装箱储能系统



BESS Technical Data

Parameters	Capacity	133kWh	500kWh	1MWh	2MWh
	Maximum Power	150kW	500kW	1MW	2MW
	Rated Power	Lithium Iron Phosphate			
	Cell Type	0.38kV/6kV/10kV(3P4W,<5%THD,-1 to 1PF)			
	Rated AC Voltage	0.38kV/6kV/10kv			
	Rated AC Frequency	50Hz/60Hz			
	Operating DC Voltage	DC600~900V			
	Operating Temperature	0~45°C			
	Colling System	Forced Air for Converter and Transformer,HAVC for Batteries			
	Fire Control	HFC227ea Extinguish System			
	Communication	MODBUS/TCP			
	IP Level	55			
	Dimensions of Container(W*D*H)	20ft(6.096*2.438*2.896m) 40ft(12.192*2.438*2.896m)			

Battery Cluster Options

Parameters	Cluster Type			
		SDC10_691280	SDC10_665200	SDC10_739230
	Rated Voltage	691V	665V	739V
	Rated Capacity	280Ah	200Ah	230Ah
	Maximum Charge Discharge Ratio	0.5C	0.5C	1C
Available Energy	193kWh	133kWh	170kWh	



Declaration: This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact CHINASHOTO for the latest information.

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