



BYD Modular Outdoor Energy Storage System

245kWh
Battery

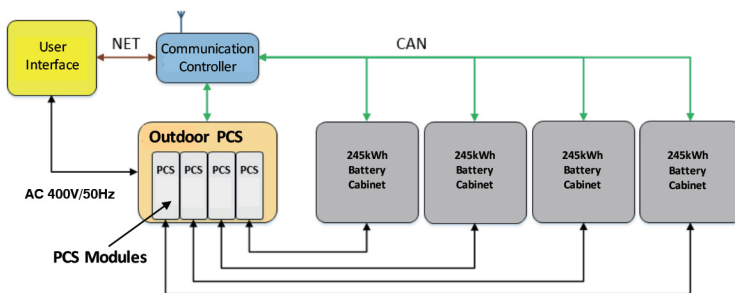
245kWh Battery Cabinet Unit

*Conceptual Design

Introduction

With 10 years' experience and 462MW/463MWh system deployed worldwide, BYD has been carefully watching the market and with all the lesson learnt, we developed the All-New Modular Outdoor Energy Storage system. The system integrates BYD's Signature LiFePO4 battery and forms a self-sustaining outdoor units. The Design takes priority in safety, reliability, and implements thoughtful details of installation convenience.

System Topology



Characteristics

- Higher reliability: MTBF > 100,000h;
- More convenient repairing and maintenance: MTTR < 60min;
- Longer lifetime: 20 years (specific lifetime also determined by actual utilization);
- Faster and more convenient installation: installation time of single cabinet < 30min (moved by forklift)
- More energy efficiency with high-performance air cooling: DC system standby energy consumption < 0.2% over a 24-hour period

Build Your Dreams



BYD Modular Outdoor ESS 245kWh Battery Unit Specification

*Conceptual Design

System parameter

No.	Item	Parameter	Remark
Performance parameter			
1	Nominal charging power	100kVA @DC side	1 hour Outdoor ESS
2	Nominal discharging power	200kVA	
3	Battery nameplate energy	245kWh	
4	System DC side initial output energy	230kWh @ test 200kW	
5	Nominal charging power	200kVA @DC side	2 hour Outdoor ESS
6	Nominal discharging power	200kVA	
7	Battery nameplate energy	495kWh	
8	System DC side initial output energy	460 kWh @test 200kW	
9	Nominal charging power	200kVA @DC side	3 hour Outdoor ESS
10	Nominal discharging power	200kVA	
11	Battery nameplate energy	740kWh	
12	System DC side initial output energy	690kWh @test 200kW	
13	Nominal charging power	200kVA @DC side	4 hour Outdoor ESS
14	Nominal discharging power	200kVA	
15	Battery nameplate energy	990kWh	
16	System DC side initial output energy	930kWh @test 200kW	
17	Nominal working voltage (V)	768V	
18	Working voltage range(V)	672~864V	
Working condition			
19	Working environment temperature range	-15℃~+45℃	
20	Permissible Ambient Humidity	5%~95%	Non-condensing
21	Permissible Altitude	≤2000m	
Other parameter			
22	Enclosure Protection Grade	IP54	
23	Noise	<70dBA	@1 meter, sound pressure
24	Communication Interface	Ethernet	
25	Dimension (W×D×H)	1676×1381×1900mm	For reference
26	Weight	About 2.2t	For reference
27	External interface	Power interface	1 pcs
		Auxiliary power supply interface	1 pcs
		Communication interface	1 pcs
		Grounding interface	1 pcs

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