

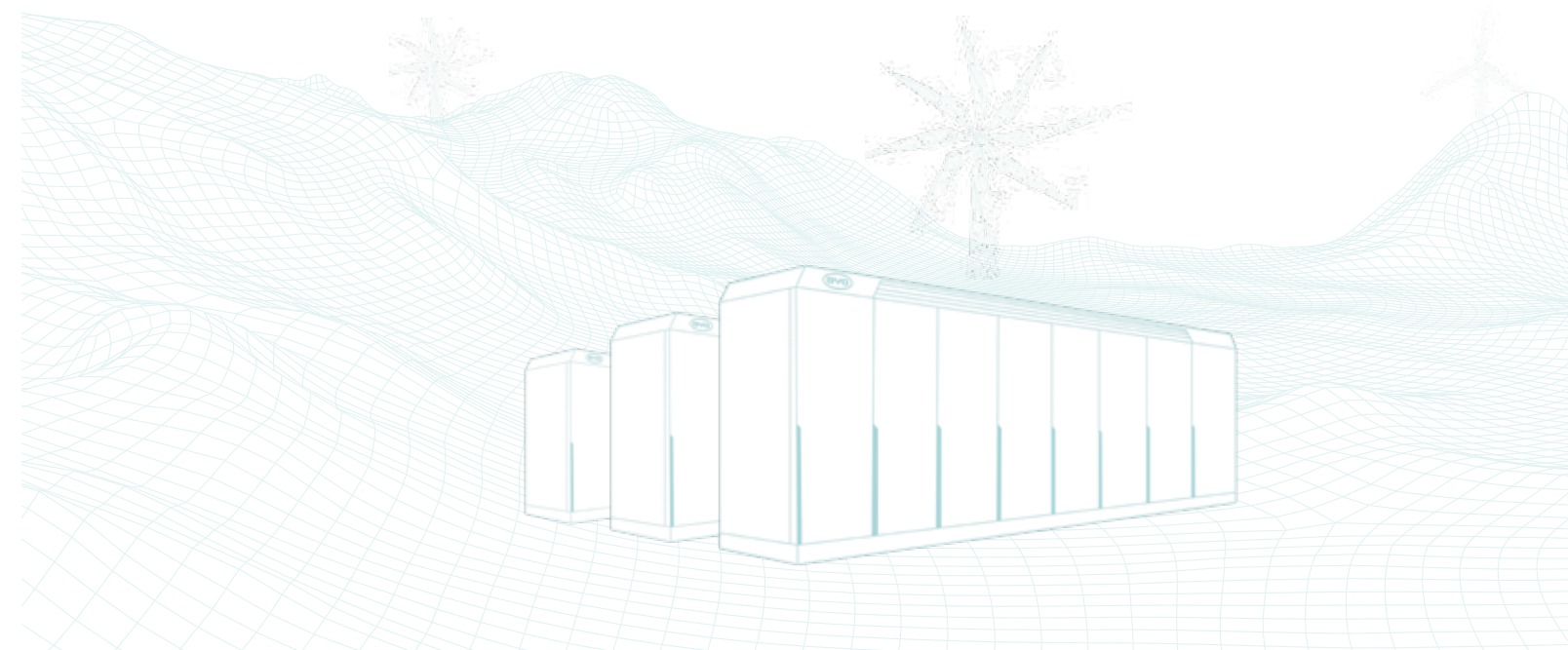


Energy Storage

比亚迪储能

Build Your Dreams

储能行业引领者



CUBE

CP36-B2800-E-R1M01 &
CP32-B2800-E-R2M01 & CP32-B3000-E-R4M01

World's first liquid-cooled battery energy storage system that has passed UL9540A and GB36276 tests.



SYSTEM PARAMETERS

System Type	CP36-B2800-E-R1M01	CP32-B2800-E-R2M01	CP32-B3000-E-R4M01
DC Side			
Cell Type	LFP C15	LFP C15	LFP C15
Pack Type	1P114S	1P114S	1P114S
Rack Size	1P228S (2 packs)	1P342S (3 packs)	1P342S (3 packs)
System Configuration	12×1P228S	8×1P342S	8×1P342S
Battery Capacity (BOL)	2800kWh	2800kWh	3000kWh
DC Usable Energy (BOL)@SAT	2560kWh	2590kWh	2835kWh
DC Energy at Full Power (BOL)@SAT	2430kWh	2590kWh	2750kWh
Battery Voltage Range	638.4~820.8V	934~1231.2V	934~1231.2V
Nominal Power	2430kW	1245kW	625kW

General Parameters			
Dimensions(W×D×H)	11000×1700×2645mm	9800×1700×2645mm	9800×1700×2645mm
Weight	31000kg	29500kg	29000kg
IP Rating	IP55	IP55	IP55
Operating Ambient Temperature range	-30℃~+55℃【1】	-30℃~+55℃【1】	-30℃~+55℃【1】
Relative Humidity	5%~100%	5%~100%	5%~100%
Max. Working Altitude	< 3000m	< 3000m	< 3000m
Cooling Concept	Liquid cooling	Liquid cooling	Liquid cooling
Noise	≤80dB(A)@1m	≤75dB(A)@1m	≤75dB(A)@1m
Fire Suppression System(optional)	Heptafluoropropane/perfluorohexanone/reserved water fire pipeline	Heptafluoropropane/perfluorohexanone/reserved water fire pipeline	Heptafluoropropane/perfluorohexanone/reserved water fire pipeline
Aux. Power Interface	AC400V/50Hz, 3-phase 4-wire	AC400V/50Hz, 3-phase 4-wire	AC400V/50Hz, 3-phase 4-wire
Aux. System Peak Power Requirement @45℃, PF0.8	50.70kW	32.70kW	11.60kW
Communication Interfaces	Ethernet	Ethernet	Ethernet
Communication Protocols	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP
Standard Color	RAL9003	RAL9003	RAL9003
Compliance	UN38.3,UL9540A,UN3536,UL1642,UL1973,IEC62619,CE Marking,UKCA		

Note:
【1】 Power derating is performed when the ambient temperature is above 40℃.

SYSTEM FEATURES

- Small Space & High Energy Density**

Compact mechanical design, minimized footprint.
- Liquid Cooling & Stable System**

Equipped with an efficient and reliable liquid cooling system, the battery temperature difference is less than 3℃ during operation.
- Advanced Technology & Efficient and Safe**

Using the advanced LFP batteries, longer service life. Equipped with FSS to ensure safe operation.
- Highly Integrated & Easy for Installation**

Highly integrated system, all-in-one design, integrated local controller, HVAC and FSS, easy for installation and transportation.

CIRCUIT DIAGRAM

