

CBES-0.5C Air Cooled ESS

Highly integrated, efficient and convenient

The 0.5C air cooled energy storage cabin has a high volume storage capacity, effectively saves the station space, It meets the needs of new energy consumption, peak shaving and load shifting, independent energy storage power stations and large-scale user side energy storage.



Secured and Stable

- Support 100% DOD deep discharge. 15 years of service life under standard conditions.
- Dual FSS, by supporting combustible gas detection / exhaust / explosion design, the system can efficiently realize fire prevention and reignition.



Smart and Efficient

- Efficient and reliable air cooling system, powered by interconnected between thermal management system and BMS, helps reduce auxiliary energy consumption.
- Real-time accurate temperature monitor and control, improve cell consistency, cell temperature difference $\leq 7^{\circ}\text{C}$.



Highly Integrated

- High storage capacity of 0.5C system, saving the space of the station.
- Configured in advance to reduce the field working load.



Easy Maintenance

- Remote upgrade / APP operation and maintenance / cloud-edge collaboration.
- Support life cycle system fault diagnosis, battery health assessment and early warning.



New energy consumption



Peak shaving and load shifting



Independent energy storage power station

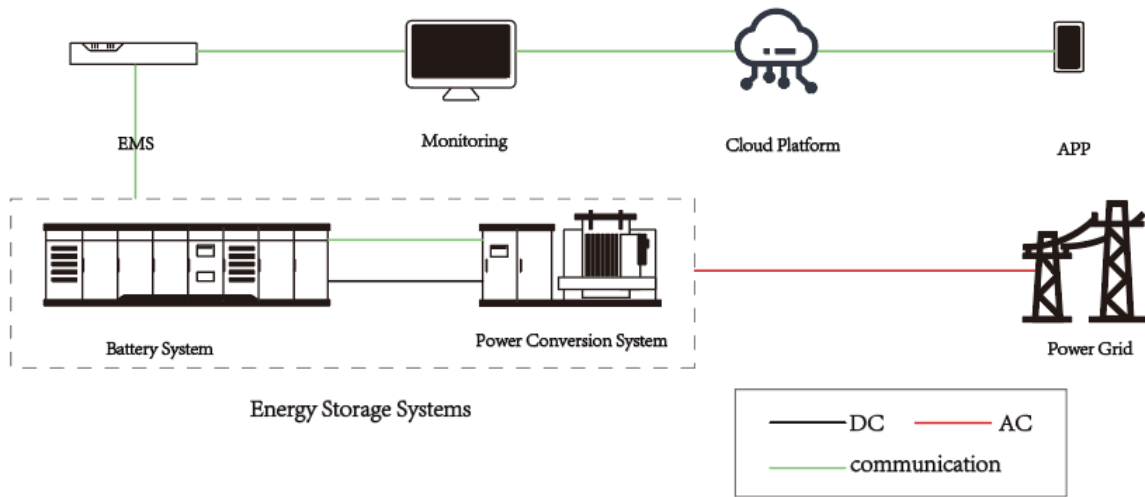


Large user side energy storage

CBES-0.5C Air Cooled ESS

Large energy storage system

Technical Data	CBES-2.236MWh	CBES-3.354MWh	CBES-5MWh
DC side			
Cell Type	LFP 3.2V/280Ah	LFP 3.2V/280Ah	LFP 3.2V/280Ah
Pack String	1P16S	1P16S	1P16S
System Configuration	6×1P416S	9×1P416S	14×1P400S
Battery Capacity (BOL)	2236.41KWh	3354.62KWh	5017.60KWh
Rated Charge/Discharge Rate	0.5C	0.5C	0.5C
Nominal Voltage	1331.2V	1331.2V	1280V
Voltage Range	1164.8-1497.6v	1164.8-1497.6v	1120-1440v
General			
Dimensions(W×D×H)	6058×2438×2896mm	9125×2438×2896mm	12192×2438×2896mm
Weight	25t	35t	45t
IP grade	IP55	IP55	IP55
Operating Temperature Range	-30℃~+55℃	-30℃~+55℃	-30℃~+55℃
Relative Humidity	0-95% (No condensation)	0-95% (No condensation)	0-95% (No condensation)
Maximum working altitude	2000m	2000m	2000m
Cooling Method	Air cooling	Air cooling	Air cooling
Noise Level	≤75dB	≤75dB	≤75dB
Fire Suppression System(optional)	Heptafluoropropane/ perfluorohexanone	Heptafluoropropane/ perfluorohexanone	Heptafluoropropane/ perfluorohexanone
Auxiliary power supply	AC380V/50Hz, 3-phase 4-wire	AC380V/50Hz, 3-phase 4-wire	AC380V/50Hz, 3-phase 4-wire
Communication Interface	Ethernet	Ethernet	Ethernet
Communication Protocol	Modbus/IEC61850	Modbus/IEC61850	Modbus/IEC61850
Region	North America/Europe/China	China	North America/Europe/China
Code & Compliance	GB/T36276、IEC62619、UL1973		



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