

CBES- Air Cooled optical storage and off-grid integrated cabin

Highly integrated, efficient and convenient

The air cooled optical storage and charging converged cabin adopts a modular integrated design and can be used in parallel with 20 cabins. It flexibly adapt to different application scenarios and supports seamless off-network switching. It meets the needs of peak shaving and load shifting, dynamic capacity expansion, demand response, backup power supply and microgrid.



Secured and Stable

- Support 100% DOD deep discharge. 15 years of service life under standard conditions
- Dual FSS, combustible gas detection / exhaust / explosion design, efficient 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, ensures cell temperature difference $\leq 5^{\circ}\text{C}$, improve the consistency of the cell



Highly Integrated

- Modular design. flexibly match different scenarios, support a maximum of 20 cabins parallel, forming a 2MW/4MWh unit
- Support on and off-grid seamless switching, switching time up to 10ms, high power supply reliability



Easy Maintenance

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



Peak shaving and load shifting



Dynamic expansion



Demand on response



Standby power supply

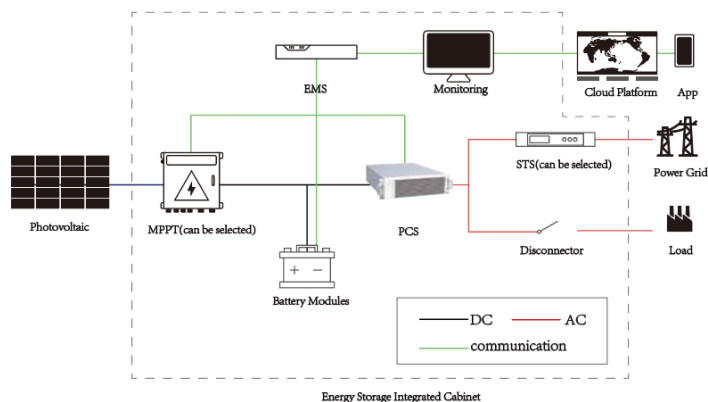


microgrid

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Distributed ESS

Technical Data	CBES-50kW/229KWh	CBES-100kW/229kWh
DC		
Cell Type	LFP 3.2V/280Ah	LFP 3.2V/280Ah
System Configuration	1×1P256S	1×1P256S
Rated Power	229KWh	100/229KWh
Grid-tied AC output		
Rated Charging/Discharging Power	50kW	100kW
Rated Voltage	AC400V	AC400V
Rated Frequency	50Hz/60 Hz	50Hz/60 Hz
Off-grid AC output		
Rated Output Power	50kW	100kW
Rated Output Voltage	AC400V	AC400V
Rated Output Frequency	50Hz/60Hz	50Hz/60Hz
Unbalanced Load Capacity	100%	100%
General		
Dimensions(W×D×H)	1700×1260×2300mm	1700×1260×2300mm
Weight	3.2t	3.2t
Operating Temperature	-20℃~+50℃	-20℃~+50℃
Relative Humidity	0-95% (No condensation)	0-95% (No condensation)
Cooling Method	HVAC	HVAC
Noise Level	≤80dB	≤80dB
Fire Suppression System	Aerosol	Aerosol
Communication Interface	Ethernet	Ethernet
Communication Protocol	Modbus TCP/IP	Modbus TCP/IP
Code & Compliance	GB/T36276、IEC62619	GB/T36276、IEC62619
PV (Optional)		
Max Input Power	50kW	50kW/50kW*2
MPPT Voltage Range	0-670V	0-670V
No. of Independent MPPT Inputs	1	1
No. of PV strings	1	1/2
Static Transfer Switch (optional)		
Rated Power	100kW	200kW
Time of Switch	≤20ms	≤20ms



*Information on this catalogue is subject to change without further notice! right to data, parameters and other information. No further notice!