





E-FlexBox

1MWh LIQUID COOLED COMMERCIAL & INDUSTRIAL ENERGY STORAGE SYSTEM

PRODUCT FEATURE

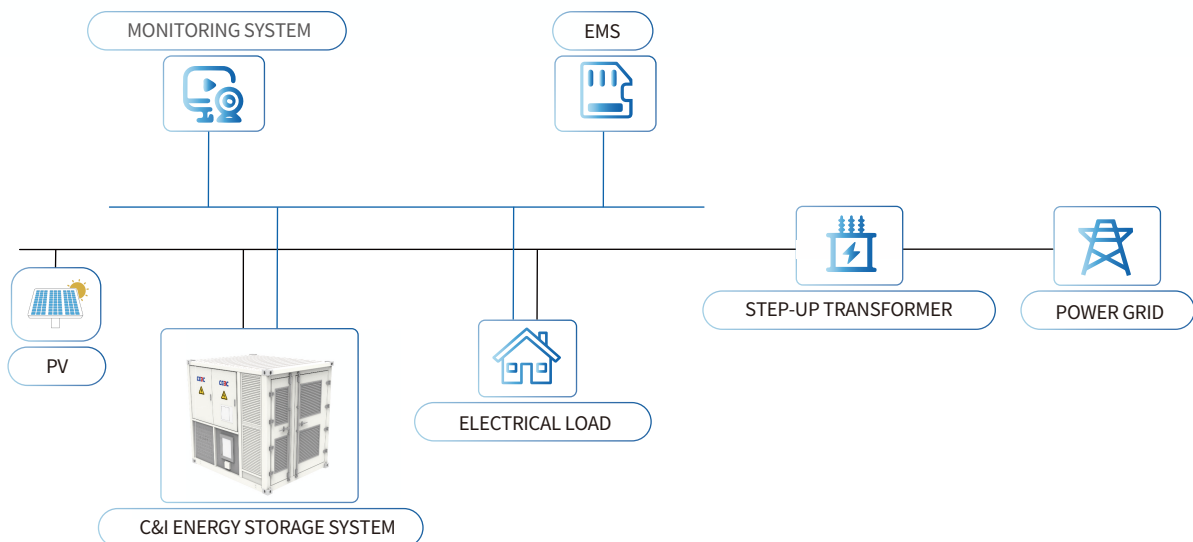
Modular design is adopted as a whole, which has the advantages of long service life, high integration, high expansibility, high reliability and flexible configuration. With the industrial and commercial energy management system(EMS), it can be widely used in grid-connected scenes such as frequency regulation, voltage support, peak-valley arbitrage, peak-load shifting, demand response, new energy grid connection, and other off-grid scenes such as black start, standby energy and microgrid.



-  All-in-one fire detection, efficient and safe
-  Highly integrated, smaller footprint and convenient maintenance
-  Modular design, flexible configuration and higher utilization rate
-  Anti-backflow function and AI warning

SOLUTION

— COMMUNICATION LINE — AC LINE



PARAMETER

DC SIDE	Cell Type	LFP 3.2V/314Ah
	System Battery Configuration	260S4P
	Nominal Capacity	1045kWh
	Nominal Voltage	832V
	Voltage Range	728~936V
AC SIDE	Nominal Power	250/500kW
	Max.TH.D of Current	≤3% (rated power)
	Nominal Voltage	400V
	Voltage Range	400V (-20% ~ +15%)
	Nominal Frequency	50 / 60Hz
PV INPUT (Optional)	Max PV Input Voltage	1000 V
	Max PV Power	300/360kW
	MPPT Quantity	5/6
	MPPT Voltage Range	250~850V
SYSTEM PARAMETER	Dimensions (W * H * D)	2991mm * 2896mm * 2438mm
	Weight	~13.1t
	Degree of Protection	IP54
	Auxiliary Power Supply	Internal Power Supply / External Power Supply (optional)
	Anti-corrosion Degree	C4 / C5 (optional)
	Operation Humidity Range	0 ~ 95%, Non-condensing
	Operation Temperature Range	-30°C ~ +55°C (> 45°C derating)
	Maximum Operation Altitude	5000m (> 3000m derating)
	Temperature Control Method	High-efficiency Liquid Cooling
	Noise	≤75dB
	Fire Suppression System	Aerosol & Sprinkler
	Communication Interfaces	CAN, RS485, RJ45
	Communication Protocol	CAN2.0B, IEC61850, Modbus TCP, Modbus RTU
	Standard	IEC62619, IEC 63056, IEC 62477-1, IEC 62040-1, IEC/UL 60730-1, UL 9540A, UN38.3, UN3536
Application Scenarios	Smart Mining Areas, Isolated Islands, Urban Rooftops, Inland Farms, Industrial and Commercial Areas	