

Container Energy Storage System

500kwh/1000kWh/2000kWh



The system integrates energy storage inverter, battery, fire protection, refrigeration, isolation transformer, dynamic environment monitoring and energy management, friendly grid adaptability, accepts grid dispatching, carries out active and reactive power compensation, supports peak shaving and valley filling, demand-side response, assists new energy grid integration and other applications. The IP55 protection level fits in harsh outdoor environments, ideal for commercial and industrial energy storage needs.

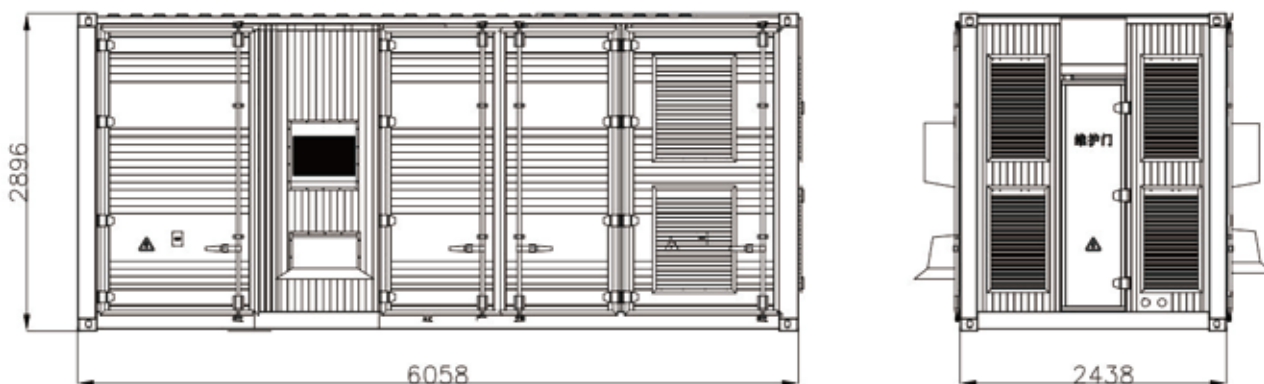
Product Features:

- High integration: system productization, integration of Battery, fire protection, PCS, temperature control, and monitoring communication, fully control the system operation status and risks; One-stop delivery, shorten the installation and commissioning cycle.
- Safety intelligence: fault classification processing mechanism to respond to preset fault scenarios; Customized BMS to provide perfect measurement and protection functions; Support cloud scheduling and operation report analysis.
- Versatile: support peak shaving and valley filling, demand-side response, backup power supply and other main functions; Support remote update of operating strategy and firmware upgrade, lower operating and maintenance costs.
- Flexible and convenient: modular PCS, linear expansion battery unit and energy storage bidirectional inverter unit; It has the ability to independently charge and discharge control of multiple groups of batteries to improve battery utilization and safety.



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PERFORMANCE SPECIFICATIONS

Container		
Model	ESS-20C	ESS-40C
Rated AC power	250kW/500kW	500kW/1000kW
Rated AC voltage	400V	
Rated AC current	360A/720A	720A/720A*2
THDi	<3%(linear load)	
PF adjustable range	-1(leading) ~ +1(lagging)	
Battery cell specification	3.2V/120Ah; 3.2V/280Ah	
Battery cell cycle life	>6000 cycles@0.5C,25°C	
Available rated capacity	1000kWh	2000kWh
Type	Modular, high efficiency three level	
Protection	Over temperature, low temperature charging, over current, short circuit, over voltage, under voltage, DC bus protection, etc.	
Connection mode	Three phase three wire/three phase four wire	
isolation transformer	Equipped (optional)	
Working mode	Grid-tied peak shaving/off-grid power supply guarantee	
General Parameters		
Dimensions	6058*2438*2896 mm	12196*2438*2896 mm
Weight	approx.18 tons	approx.35 tons
Protection level	IP55	
Operating temperature	-25~60°C(derating>45°C)	
Relative humidity	0~95%(non-condensing)	
Altitude	3000m(>3000m Derating)	
Fire extinguishing system	FM200 pipe fire extinguishing system	
Battery cabin cooling code	air conditioning cooling	
Electric cabin cooling code	fan cooling	
Communication interface/protocol	RS485,Ethernet/Modbus RTU, Modbus TCP	
Certifications	IEC62619,UN38.3,UL1973,CE	

