CONTAINER ENERGY STORAGE SYSTEM
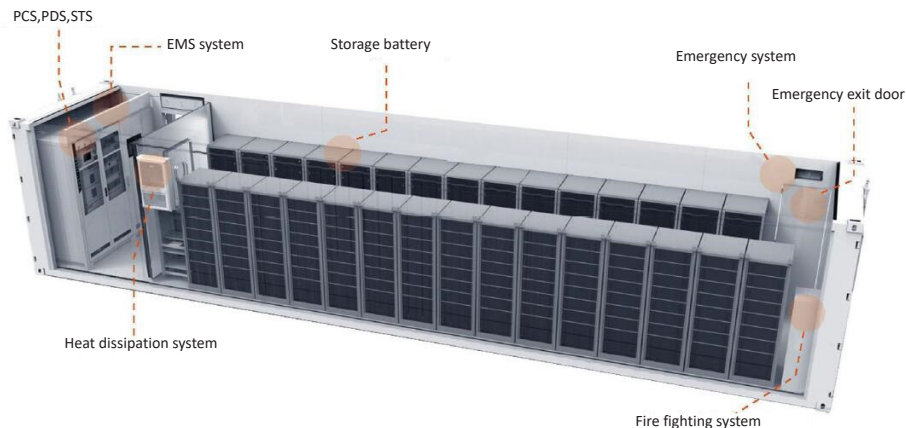
20FT AND 40FT CONTAINERS

Product introduction:

The containerized energy storage system includes :Battery management system (BMS), Power conversion system(PCS), Power distribution system(PDS), Micro-grid switching system(STS), Energy management system(EMS), and Auxiliary power distribution system, air conditioning system, fire protection system. It is widely used in scenarios such as power security, peak shaving and valley filling, new energy consumption and grid load smoothing.

Performance characteristics:

• Flexible configuration of battery system types and capacities according to customer requirements
• The PCS has a modular architecture, simple maintenance and flexible configuration, allowing for myltiple parallel machines support parallel and off-grid operation mode, seamless switching
• Black start support
• EMS unattended system, locally controlled, cloud-monitored operation, with highly customized features
• Various modes including peak and valley reduction, demand response, backflow prevention, back-up power, command response, etc
• Complete gas fire extinguishing system and automatic fire monitoring and alarm system with audible and visual alarm and fault uploading
• Complete thermal and temperature control system to ensure that the battery compartment temperature is within the optimum operating range
• Access control system with remote control and local operation

Model	20ft	40ft
Output volt (V)	380/400 ±15%	
Gird frequency (Hz)	50/60 (±2.5)	
Output power (KW)	50-300	250-630
Battery capacity (kWh)	200-600	600-2000
LiFePO4		
Size (m)	Inside size (D*W*H) : 2.352*5.898*2.385 Outside size (D*W*H): 2.438*6.058*2.591	Inside size (D*W*H) : 2.352*12.032*2.385 Outside size (D*W*H) : 2.438*12.192*2.591
Protection level	IP54	
Humidity (% rh)	0-95	
Altitude (m)	3000	
Working temperature (°C)	-25 ~ 50	
Battery volt range (V)	500 -850	
Max. DC current (A)	500	1000
Connect method	3P 4W	
Power factor	-1 ~ 1	
Communication method	RS485, CAN, Ethernet	
Isolation method	Low frequency isolation with transformer	