

CONTAINERIZED ENERGY STORAGE SYSTEMS

860kWh/1075kWh/1290kWh/1505kWh/1720kWh

CONTAINERIZED BATTERY ENERGY STORAGE SYSTEM ADOPTS AN ALL-IN-ONE MODULAR DESIGN, INTEGRATING THE BATTERY PACK, INTELLIGENT ENERGY STORAGE CONVERTER (PCS), POWER DISTRIBUTION UNIT (PDU), AUTOMATIC FIRE EXTINGUISHING SYSTEM (FFS), AND TEMPERATURE CONTROL SYSTEM (TCS), INTELLIGENT MONITORING SYSTEM (IMS), ETC.ARE INTEGRATED INTO ONE, AND THE 20HQ STANDARD CONTAINER DESIGN IS ADOPTED, WHICH SAVES APPLICATION SPACE AND FACILITATES TRANSPORTATION, HOISTING, INSTALLATION AND MAINTENANCE. PLUG-AND-PLAY DESIGN GREATLY REDUCES ON-SITE CONSTRUCTION TIME AND COSTS.

CONTAINERIZED BATTERY ENERGY STORAGE SYSTEMSUPPORTS INTEGRATED TRANSPORTATION WITH BATTERIES, WITH SINGLE CLUSTERS IN CABINETS, THERMAL ISOLATION BETWEEN CLUSTERS, AND INDEPENDENT MAINTENANCE OF EACH CLUSTER. THE AIR-CONDITIONER, FFS, AND BMS ARE INDEPENDENT OF EACH OTHER. THE CLUSTERS ADOPT AN EXCLUSIVE PATENT TO PREVENT OPEN FLAME LEAKAGE, COMBINED WITH THE SELF-DEVELOPED OPERATION AND MAINTENANCE PLATFORM, CAN QUICKLY REALIZE FAULT PREDICTION AND LOCATION.

AC/DC Coupling
Supports AC/DC coupling

Multiple energy access
Solar, diesel generator, wind turbine, etc.

Response <200ms
Efficient charging and discharging

Minimum O & M
Single cluster self-management



Type	P400C860	P500C1075	P600C1290	P700C1505	P800C1720
DC SIDE PARAMETERS					
Cell type & capacity	LiFePO4-280Ah				
Battery module type	1P20S				
System configuration	4*1P240S	5*1P240S	6*1P240S	7*1P240S	8*1P240S
Capacity (BOL)	860kWh	1075kWh	1290kWh	1505kWh	1720kWh
AC SIDE PARAMETERS					
Grid type	3P4W+PE				
Rated output power	400kW	500kW	600kW	700kW	800kW
Rated voltage	AC400V				
Rated frequency	50/60(±5)Hz				
Maximum output current	577A	722A	866A	1010A	1155A
Harmonics	< 3%(@rated power)				
Overload capacity	110%,10mins;120%,60s				
GENERAL PARAMETERS					
Isolation transformer	No				
IP level	Outdoor installation (Battery cabinet: IP55, Electrical room: IP34)				
Container anti-corrosiongrade	C3&C5				
Operation temperature*	-20°C ~ 60°C				
Relative humidity	0~95% (non-condensing)				
Permissible altitude**	< 2000m				
Cooling method	Battery cabinet: HVAC, Electrical room: forced air cooling				
Fire fighting system	FAS & FM200/Novtec1230				
Noise emission	≤75dB				
Dimension (W*D*H)	20HQ container (6058mm*2438mm*2896mm)				
Maximum weight	24500kg				
Communication interface	Ethernet				
Communication protocol	Modbus TCP/IP				
Certification	System: UN3536、LVD、EMC、RoHS Cell: IEC62619、UL1973、UL9540A PACK: UN38.3 PCS: G99、EN50549、AS4777.2、VDE4105				

* The system will be derated when the ambient temperature exceeds 45°C. ** The system will be derated when the altitude is between 2000 and 3000m.