

EnerCube

Containerized Battery Energy Storage System



Energy on Demand,
Powering a Bright Future.



The **3rd** generation modular containerized BESS

Design optimization cuts lead time by **1/2** (VS traditional BESS structure)

Complete IEC62619, IEC62477, IEC61000, EN50549, G99, UN3536, UN38.3, AS4777.2, VDE4105, etc.

DC BUS grid-forming (GFM) technology ensures **100%** availability of battery cluster capacity



Safe & Stable

Design patent of preventing flame outward expansion enhances product safety.



Economical & Efficient

Containerized design for easy transportation & installation reduces transportation and site construction costs.



Modular O&M

Modular O&M without interference in the normal operation of other modules for cost savings and utilization optimizing.



Flexible Expansion

Flexible configuration on demand; Modular structure; Multiple cabinets parallel connection and control.



Industrial Park Energy Storage

Capacity Expansion
Peak-load Shifting
TOU Tariff Arbitrage
Power Quality Management



Solar + Storage + EV Charging Station

Store Extra Solar Energy
Peak-load Shifting
Tariff Savings
Power Expansion for More Chargers
Eco-friendly Solution



Solar + Storage Microgrid

Backup Power
Store Extra Solar Energy
Distributed Energy Integration
Optimizing The Power Grid Upgrading

EnerCube

Containerized Battery Energy Storage System



Parameters	EnerCube P400C860	EnerCube P500C1075	EnerCube P600C1290	EnerCube P700C1505	EnerCube P800C1720
Battery Parameters					
Cell type & capacity	LFP-280Ah				
Battery module type	1P20S (P20)				
System configuration	4*1P240S	5*1P240S	6*1P240S	7*1P240S	8*1P240S
System capacity (BOL)	860kWh	1075kWh	1290kWh	1505kWh	1720kWh
AC Output Parameters					
Rated output power	400kW	500kW	600kW	700kW	800kW
Rated voltage	AC400V, 3P4W+PE				
Rated grid frequency	50Hz±5Hz/60Hz±5Hz				
Maximum output current	577A	722A	866A	1010A	1155A
Harmonics	≤3% (@rated power)				
Overload capacity	110%, 10 mins; 120%, 60s				
General Parameters					
Isolation transformer	Optional				
Protection level	Outdoor installation: IP55 (Battery cabinet), IP34 (Electrical cabinet)				
Anti-corrosion grade	C3				
Operating temperature*	-20℃~50℃				
Relative humidity	0~95% (non-condensing)				
Operating altitude**	< 3000m				
Cooling method	HVAC (Battery cabinet) & Forced air cooling (Electrical cabinet)				
Noise emission	≤75dB				
Dimension (W*D*H)	20HQ container (6058mmx2438mmx2896mm)				
Max. weight	24000kg				
Fire fighting system	FM200/Novec1230				
Communication interface and protocol	Ethernet, Modbus TCP/IP				
Warranty	5 years (can be extended to 10 years)				
Certifications					
System: UN3536, UN38.3, EN IEC61000&62477, CE-IEC62619, VDE-2510, RoHS					
Cell: IEC62619, UI1973, UI1642, UL9540A, UN38.3					
PACK: UN38.3, IEC62619					
PCS: G99, NC-RfG, EN/IEC62477&62619, EN50549, EN/IEC61000, AS/NZS 4777, VDE4105, NRS, TOR Type A & B, VDE4110, etc.					

* The system will be derated when the ambient temperature exceeds 45℃.

**The system will be derated when the altitude exceeds 2000m.



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