

EnerCube

Containerized Battery Energy Storage System



Vilion-BESS
energy flowing with demand



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, China Classification Society, 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; Modularized 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
- Electricity Cost Saving
- 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

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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	No				
Ingress protection	Battery compartment: IP55, Electrical compartment: IP34				
Container anti-corrosion grade	C3				
Operating temperature*	-20°C~55°C				
Relative humidity	0~95% (non-condensing)				
Permissible altitude**	2000m				
Cooling method	Battery compartment: HVAC, Electrical compartment: Forced air cooling				
Noise emission	≤75dB				
Dimension (W*D*H)	6058mm×2438mm×2896mm				
Max. weight	25000kg				
Fire fighting system	FAS & FM200/Novac1230				
Communication interface and protocol	Ethernet, Modbus TCP/IP				

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

**The system will be derated when the altitude is between 2000m and 3000m.



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