

EnerCube Containerized BESS



■ The 3rd **Generation** Modular Containerized BESS ■ **1C** charging/discharging

■ **Comprehensive** on-grid certificates

■ Grid **frequency regulation** function,
response time < **200** ms

Cost effective

Integrated transportation and integrated installation effectively reducing transportation and on-site construction costs.

safe and stable

LFP battery with inter-cluster isolation technology; Design patent of preventing flame outward expansion enhances product safety.

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 & Community

Expansion
FM
Peak-load Shifting
TOU Tariff Arbitrage



Solar + BESS + EV Charging Station

Electricity Cost Saving
Power Expansion for More
Chargers
Low Carbon and
Environmental Friendly



Solar + Storage Microgrid

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

EnerCube Containerized BESS



Parameters	P500C552	P437C483	P375C414	P312C345	P250C276
Battery parameters					
Cell type	LiFePO ₄ - 100Ah				
Battery module type	1P24S				
Battery string	1P216S (9 modules)				
System configuration	8*1P216S	7*1P216S	6*1P216S	5*1P216S	4*1P216S
System capacity (BOL)	552kWh	483kWh	414kWh	345kWh	276kWh
Battery voltage range	604.8V ~ 777.6V				
AC side parameters					
Grid type	PCS side: 400V , 3P3W				
Rated output power	500kW	437kW	375kW	312kW	250kW
Rated voltage	AC400V				
Rated frequency	50/60(±5)Hz				
Maximum output current	721A	630A	541A	450A	361A
Harmonics	< 3% (at rated power)				
Overload capacity	110% , 10mins ; 120% , 60s				
General parameters					
Protection level	Outdoor installation (Battery cabinet: IP55, Electrical room: IP34)				
Cooling method	Battery cabinet: HVAC , Electrical room: forced air cooling				
Anti-corrosion level	C3				
Operating temperature*	-20°C ~ 55°C				
Relative humidity	0~95% (no condensation)				
Working altitude **	<2000m				
Fire fighting system	FAS & FM200				
Noise	≤75dB				
Dimension (W*D*H)	20HQ Container (6058mm*2438mm*2896mm)				
Weight	16000kg	14800kg	13600kg	12400kg	11200kg
Communication Interface	Ethernet, RS485				
Protocol	Modbus TCP/IP , Modbus-RTU				
Certification					

System: IEC/EN61000 , IEC/EN62477

Cell: GB/T 36276 , IEC 62619 , UL1973 , UL1642 , UL9540A

PACK: UN38.3

PCS: IEC/EN 61000, IEC/EN 62477, BS/EN/IEC 62109, VDE 4110, CEI 0-16, EN 50549-1/2, G99+ENA Listing, UNE 206007, UNE 217001, UNE 217002, IEEE 1547, IEC 61727&IEC 62116, NRS 097-2-1, NTS 631, UE 2016/631, FCAS, UL1741, AS/NZS 4777.2, E5000, CEC Guideline, FCC Part15: 2020-f, RCD, UL1998, CSA C22.2

*If the temperature exceeds 45°C , the system power will be derated.

**Above 2000 meters, the system will be derated.

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GESA- An Appointed Exclusive Distributor In South Africa

Global Headquarters: Vilion (Shenzhen) New Energy Technology Co., Ltd.

EU Headquarters: Vilion Tech. B .V. (Amsterdam, the Netherlands.)