


# EnerCube Containerized BESS





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


**Comprehensive** grid-connection certificates

Support grid **frequency regulation** service, response time < **200** ms


-  **Cost effective**

One-stop transportation, installation;  
Rapid deployment,  
Reducing project costs.
-  **safe and stable**

LFP battery with inter-cluster isolation technology,  
Patented design to prevent open flames from leaking out.
-  **Modular O&M**

Modular design, partitioned O&M,  
Improve system availability.
-  **Flexible expansion**


Flexible configuration on demand, modules  
Splicing; supports multiple units in parallel  
Collaborative control.



**Industrial Park & Community**

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Expansion  
FM  
Peak clipping and filling  
Time-of-use electricity price arbitrage



**PV + BESS + EV Charging Station**

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Power extension  
Save electricity bills  
Low carbon and environmental protection



**Auxiliary Grid Service**

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FCR application  
1C rate charging/discharging  
Fast response

# EnerCube Containerized BESS

Item	P500C552	P437C483	P375C414	P312C345	P250C276
<b>Battery parameters</b>					
Battery cell	LiFePO <sub>4</sub> - 100Ah				
Battery module	1P24S				
Battery string	1P216S ( 9 modules)				
Battery System	8*1P216S	7*1P216S	6*1P216S	5*1P216S	4*1P216S
Battery Capacity ( BOL )	552kWh	483kWh	414kWh	312kWh	276kWh
Battery voltage range	604.8V ~ 777.6V				
<b>AC side parameters</b>					
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
Output harmonics	< 3% (at rated power)				
Overload capacity	110% , 10mins ; 120% , 60s				
<b>Common parameters</b>					
Protection level	Outdoor installation (Battery cabinet: IP55 , electrical compartment: IP34)				
Cooling method	Battery Cabinets: industrial air conditioning, electrical compartment: 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	Fire Alarm & Heptafluoropropane				
noise	≤75dB				
Dimension	20HQ Container (6058mm*2438mm*2896mm)				
maximum weight	16000kg				
Communication Interface	Ethernet, RS485				
Protocol	Modbus TCP/IP , Modbus-RTU				
<b>Certification</b>					
System: IEC/EN61000 , IEC/EN62477					
Battery cell: GB/T 36276 , IEC 62619 , UL1973 , UL1642 , UL9540A					
PACK : UN38.3					
PCS : CEI 016 , EN50549-1, G99, UNE 206007, UNE 217002, IEEE 1547, IEC 61727&IEC 62116, NRS 097-2-1,NTS 631					

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

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



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