

Large-scale storage systems
from Germany.



Technical specifications

ebu ENERGY B 5000

- ✓ High storage capacity – 5 MWh
- ✓ Long-lasting – approx. 6,000 charging cycles at 80% EOL
- ✓ LiFePO₄ cell technology
- ✓ Flexible integration – German-owned EMS
- ✓ Robust design – protection class IP54
- ✓ Embedded security – Cell voltage, flue gas, and temperature monitoring
- ✓ High temperature tolerance – from -30°C to approx. 60°C (power reduction from 45°C)
- ✓ Integrated air conditioning
- ✓ Fire & Emergency Protection – aerosol fire extinguishing system, emergency stop switch

Storage System
Large-scale
storage for grid
operation



Areas of application:

electricity supplier // grid operator // industry //
critical infrastructure // EV charging infrastructure //
wind turbines // photovoltaic systems // biogas plants



Storage systems for industrial, commercial, agricultural and municipal energy projects.

ebu combines German project and service expertise with global technological power through its partnership with Jiangsu Furen Energy Technology in China. Our storage systems stabilise grids, integrate renewable energies into the energy market and increase self-generated energy consumption to reduce operational electricity costs.

OUR SERVICES:

PROCUREMENT & AVAILABILITY:

Reliable energy storage systems from China – imported, tested, and approved for Europe by an experienced German company.

PROJECT PLANNING:

We plan and coordinate the entire installation and commissioning process. Our trained specialists will ensure the technical setup, secure connection to the grid and smooth start-up of the system. We deliver a software solution for monitoring and control that is ready for use. This provides real-time data and clear reports for safe plant operation.

PROJECT PROCESS:

The system is delivered and installed on the construction site. All trades are coordinated centrally and the project is managed in a structured manner until commissioning.

SERVICE:

Permanent technical monitoring (24/7) to check system functionality. For a fast response time in the event of a service call, call the ebu support hotline on +49 921 508-383 during normal business hours.

General data	
Productname	BE 5000
Battery cell Typ	Lithium iron phosphate (LiFePO4) – Liquide cooling
max. Capacity (gross)	5.016 kWh
Usable capacity	4.915 kWh (98% max. capacity)
max. decharge load	2.500 kW
Messurements (W×H×D)	6.058x2.438x2.896 mm
Weight kg	ca. 4.300
Product guarantee	5 years
Performance guarantee	6.000 cycles, or 8 years 80% EOL, 25°C±2

Enviromental conditions	
Operating Temperture Range	-30°C up to 60°C (above 45°C Derated) Air-conditioned
Humidity Range	-95% (No Condensation)
Highest Altitude	up to 5.000 m a.s.l. (above 3.000 m Derated)
IP Level	IP54
Direct sun	allowed
Dusty enviroment	allowed

Safety	
Safety systems	BMS monitoring, Temperatur monitoring, Gas detection
Fire extinguishing system	Aerosol + Additional extinguishing water connection
Emergency Out	yes
Cabinet material	Steel (corrosion protection: C4 nach ISO 12944-2)
UPS	integrated (max. 2 h, only communication- & safetycomponents)

Scalability & Communication	
Scalable	yes
Communication	RS485/Ethernet/CAN
Remote monitoring	via EMS

Certificates & Standards	
Safety- and Qualitystandards	IEC/EN62477-1, IEC/EN61000-6-2/-4, IEC62933-5-2, IEC63056, IEC62619, UL9540A, CFD ventilator
Transport	UN38.3, MSDS, Hazarduos goods clasification and -identification