

BAT Series

102.4/112.6kWh | C&I Battery System

GoodWe's BAT Series high-voltage lithium batteries, available in 102.4kWh and 112.6kWh capacities, are specifically designed for small to medium-sized commercial and industrial (C&I) applications.

Paired with GoodWe ET hybrid inverters, the BAT 102.4/112.6kWh battery system provides a compact, easy-to-install, and high-performance turnkey energy storage solution. This powerful system delivers efficient energy backup, peak shaving, and optimized load management.



Flexible & Adaptable Applications

- Max. Continuous 0.9C charging & 1.1C discharging
- Support 4 units in parallel, scaling up to 450kWh



Superb Safety & Reliability

- Pack-level humidity monitoring and automatic dehumidification
- Aerosol-based fire suppression system at pack - and cabinet-level



Friendly & Thoughtful Design

- Highly integrated cabinet for easy transportation and installation
- Modular design for easier O&M



Smart Control & Monitoring

- Remote monitoring & updates
- Cloud-based battery diagnosis and health prediction

Technical Data	GW102.4-BAT-AC-G10	GW112.6-BAT-AC-G10
Battery System		
Cell Type	LFP (LiFePO4)	
Cell Capacity (Ah)	100	
Rated Capacity (Ah)	200	
Pack Type / model	GW10.2-PACK-ACI-G10	
Pack Nominal Energy (kWh)	10.24	
Pack Configuration	2P160S	2P176S
Pack Weight (kg)	<90	
Number of Packs	10	11
Nominal Energy (kWh)	102.4	112.6
Usable Energy (kWh) ¹	100	110
Nominal Voltage (V)	512.0	563.2
Operating Voltage Range (V)	459.2 ~ 577.6	505.12 ~ 635.36
Charging Operating Temperature Range (°C)	-20 ~ +55	
Discharging Operating Temperature Range (°C)	-20 ~ +55	
Max. Charge / Discharge Current (A) ²	180 / 220	
Max. Charge / Discharge Rate ²	0.9C / 1.1C	
Max. Charge / Discharge Power (kW) ²	92.1 / 112.6	101.3 / 123.9
Cycle Life	6000 (25 ± 2°C, 0.5C, 90%DOD, 70%EOL)	
Depth of Discharge	100%	
Efficiency		
Round-trip Efficiency	96%@100%DOD, 0.2C, 25 ± 2°C	
General Data		
Operating Temperature Range (°C)	-20 ~ +55	
Storage Temperature (°C)	+35 ~ +45 (<6 Months); -20 ~ +35 (<1 Year)	
Relative Humidity	0 ~ 100% (Condensationless)	
Max. Operating Altitude (m)	4000	
Cooling Method	Air Conditioner	
User Interface	LED	
Communication	CAN (RS485 Optional)	
Weight (kg)	<1310	<1400
Dimension (W × H × D mm)	1055 × 2000 × 1055	
Ingress Protection Rating	IP55	
Anti-corrosion Class	C4 (C5-M Optional)	
Fire Safety Equipment ³	Aerosol (Pack & Cabinet Level)	
Certification⁴		
Safety Regulation	IEC62619 / IEC63056 / IEC60730 / IEC62477 / VDE2510 / ISO13849 IEC62040 / N140 / EU 2023 / 1542 / UN38.3	
EMC	IEC / EN61000-6-1 / 2 / 3 / 4	

*1: Test conditions, 100% DOD, 0.2C charge & discharge at +25 ± 2°C for battery system at beginning life. System Usable Energy may vary with system configuration.
 *2: Actual Dis- / Charge Current and power derating will occur related to Cell Temperature and SOC. And, Max C-rate continuous time is affected by SOC, Cell Temperature, Atmosphere environment temperature.
 *3: Aerosol (Cabinet Level) before May 30th, Aerosol (Pack & Cabinet Level) after May 30th.
 *4: Not all certifications & standards listed, check the official website for detail.
 *: Please visit GoodWe website for the latest certificates.