

GOODWE

BAT-C Series

208kWh | C&I Battery System

GoodWe's BAT-C Series high-voltage lithium batteries, available in 208kWh capacity is designed for commercial and industrial (C&I) energy storage applications. Paired with GoodWe ET 100 Series hybrid inverters, and STS, the BAT-C system delivers a highly integrated and easy-to-install solution for backup power, peak shaving, load optimization, and microgrid applications.



Superb Safety & Reliability

- Pack-level temperature & humidity monitoring, aerosol fire suppression and short-circuit protection
- Integrated detection, alarm, smoke exhaust, fire suppression and optional explosion venting for graded fire protection.
- Combustible gas detector with active smoke exhaust system
- Intelligent thermal management system with pre-installed liquid cooling unit
- 3-hour fire-resistant cabinet design



Flexible & Adaptable Applications

- Scalable battery capacity from 208kWh up to 1664kWh
- Supports new and old batteries, making it ideal for future projects expandability
- Stable operation from -25°C to 55°C
- Optional C5 anti-corrosion protection for harsh environments
- Pack IP67 & system IP55 protection rating



Powerful Performance

- Optional pack-level active balancing for improved battery consistency.
- Up to 10,000 cycles for extended battery lifespan.
- 314Ah battery cells with up to 137.5kW input/output capability



Friendly & Thoughtful Design

- Real-time SOC visualization and fault alarm monitoring
- Modular system for flexible expansion with highly integrated cabinet design
- Door-mounted cooling unit for easier O&M
- Cell-level sensing for real-time warning, extended system lifespan and faster O&M response

Technical Data		GW208.9-BAT-LC-G10	GW208.9-BAT-LCD-G10
Battery System			
Battery Type	LFP (LiFePO ₄)		
Rated Capacity (Ah)	314		
Pack Type / model	GW52.2-PACK-LC-G10		
Pack Rated Energy (kWh)	52.24		
Pack Configuration	1P52S		
Pack Weight (kg)	335 ± 8		
Number of Packs	4	4	
Rated Energy (kWh)	208.9	208.9	
Pack Nominal Voltage (V)	166.4		
Nominal Voltage (V)	665.6	665.6	
Operating Voltage Range (System) (V)	596.96 ~ 750.88	700 ~ 1000	
Max.Charging / Discharging Current (A) ^{*1}	188.4 / 188.4	-	
Max. Input / Output Current (A)	-	180 / 180	
Max. Charging / Discharging power (kW) ^{*1}	125.3/125.3	-	
Max. Input / Output Power (kW)	-	125.3 / 125.3	
Max. Charging / Discharging Rate ^{*1}	0.6 / 0.6P		
Charging / Discharging Operating Temperature Range (°C)	-25 ~ +55		
Cycle Life ^{*2}	≥10000		
Depth of DisCharge	100%		
Efficiency			
Round-trip Efficiency	94%@100% DOD, 0.5P, 25 ± 2°C	93%@100% DOD, 0.5P, 25 ± 2°C	
General Data			
Storage Temperature (°C)	+35°C ~ +45°C (<6 Months); -20°C ~ +35°C(<1 Year)		
Relative Humidity	4 ~ 100%, No condensation		
Max. Operating Altitude (m)	4000		
Cooling Method	Liquid Cooling		
Communication	CAN (RS485 Optional)		
Weight (kg)	≤2095	≤2105	
Dimension (W × H × D mm)	1050 × 2025 × 1565		
Noise Emission (dB)	≤70		
Useable Extinguishing Agent	CO ₂ , H ₂ O		
Crucial Material	LiFePO ₄ , C, Cu, LiPF ₆ , Al, (C ₃ H ₆) n		
Ingress Protection	IP55		
Protective Class	I		
Anti-Corrosion Class	C4-M (C5-M Optional)		
Fire Safety Equipment	Aerosol (Pack&Cabinet Level)		

*1: Actual Dis- / Charging 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.

*2: Based on test data under specific laboratory conditionns.

*: Please visit GoodWe website for the latest certificates.