GOODWE

BAT-C Series

208kWh I 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

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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_2O	
Crucial Material	$LiFePO_4$, C, Cu, $LiPF_6$, Al, (C_3H_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.

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