

GOODWE

BAT Series

61.4-112.6kWh | C&I Battery System

GoodWe's BAT Series high-voltage lithium batteries, ranging from 61.4 to 112.6kWh, are specifically designed for small to medium-sized commercial and industrial (C&I) applications. Paired with GoodWe ET hybrid inverters, Static Transfer Switch (STS) box, the BAT battery system provides a complete, easy-to-install, and high-performance 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		GW61.4-BAT- AC-G10	GW71.6-BAT- AC-G10	GW81.9-BAT- AC-G10	GW92.1-BAT- AC-G10	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		2P96S	2P112S	2P128S	2P144S	2P160S	2P176S
Pack Weight (kg)		<90					
Number of Packs		6	7	8	9	10	11
Nominal Energy (kWh)		61.4	71.6	81.9	92.1	102.4	112.6
Usable Energy (kWh) ^{*1}		60	70	80	90	100	110
Nominal Voltage (V)		307.2	358.4	409.6	460.8	512	563.2
Operating Voltage Range (V)		275.52 ~ 346.56	321.44 ~ 404.32	367.36 ~ 462.08	413.28 ~ 519.84	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					
Rated Charge / Discharge power (kW)		30.72	35.84	40.96	46.08	51.2	56.32
Max. Charge / Discharge power (kW) ^{*2}		55.2 / 67.5	64.5 / 78.8	73.7 / 90.1	82.9 / 101.3	92.1 / 112.6	101.3 / 123.9
Cycle Life		≥6000 times until 70% SOH under 25 ± 2°C. 0.5C and 98% DOD					
Depth of Discharge		98%					
Efficiency							
Round-trip Efficiency		96%@98%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)		<950	<1040	<1130	<1220	<1310	<1400
Dimension (W × H × D mm)		1055 × 2000 × 1055					
Noise Emission (dB)		≤70					
Ingress Protection Rating		IP55					
Anti-corrosion Class		C4 (C5-M Optional)					
Fire Safety Equipment		Aerosol (Pack&Cabinet Level)					
Country of Manufacture		China					
Certification ^{*3}							
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, 98% 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: Not all certifications & standards listed, check the official website for detail.

*: Please visit GoodWe website for the latest certificates.