GOODWE

Lynx D G2 Series

5/6/8/9kWh I High Voltage Battery

GoodWe's new-generation battery system is a versatile energy storage solution suitable for a wide range of applications, from self-consumption and energy trading to off-grid applications. Compatible with both ESA Series (single & three phase) all-in-one systems and a wide range of GoodWe energy storage inverters, including ET G2 and ET30 series, it simplifies system design and deployment. Each battery pack is a standalone unit with a dedicated Battery Management Unit (BMU), supporting up to 12 units in parallel and multi-cluster expansion. It also supports mixing of new and existing battery packs as well as different capacity modules, ensuring flexible and future-ready scalability.



High Performance

- Up to 1C charge/discharge for rapid energy cycling
- High-capacity cells with up to 10000-cycle lifespan[1]
- Heating technology for reliable operation from -20°C to 55°C[2]

Multi-layer Safety

- IP66 Protection for longer life and higher durability
- Thermal-electric separation for enhanced safety and reliability
- Aerosol fire suppression system enabling active fire control

Flexible Scalability

- Up to 12 units in parallel, multi-cluster expansion
- Supports mixed use of new and existing battery packs
- Allows mixed use of different capacities within the same series

Friendly & Thoughtful Design

- Multiple installation options for various application scenarios
- Remote upgrade & diagnostics for smarter operation
- Independent BMU per pack for enhanced system stability

1: Based on test data under specific laboratory conditions
2: Standard on 6/9kWh models, optional on 5/8kWh models

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Technical Data		GW5.1-BAT-D-G20	GW8.3-BAT-D-G20	GW5.1-BAT-D-G21	GW8.3-BAT-D-G21	GW6.0-BAT-D-G20	GW9.0-BAT-D-G20
Battery Type		LFP ($LiFePO_4$)					
Rated Energy (kWh)		5.12	8.32	5.12	8.32	6.0	9.0
Usable Energy (kWh)		5.0*1	8.0*1	5.0*1	8.0*1	5.8*2	8.7*2
Operating Voltage Range (V) (single phase system)		350 ~ 550					
Operating Voltage Range (V) (three phase system)		700 ~ 950					
Max. Input Current (System) (A)		12.0	19.0	12.0	19.0	7.1	10.7
Max. Output Current (System) (A)		13.2	21.0	13.2	21.0	7.9	11.8
Max. Input Power (System) (kW)*3		5.0	8.0	5.0	8.0	3.0	4.5
Max. Output Power (System) (kW)*3		5.0	8.0	5.0	8.0	3.0	4.5
Peak.Output Power (System) (kW)*3		7.5 @10s	12 @10s	7.5 @10s	12 @10s	4.5 @ 10s	6.75 @ 10s
Charging Temperature Range (°C)		-18 ~ +55	-18 ~ +55	+2 ~ +55	+2 ~ +55	-20 ~ +55	-20 ~ +55
Discharging Temperature Range (°C)		-20 ~ +55					
Relative Humidity		4 ~ 100%					
Max. Operating Altitude (m)		4000					
Noise Emission (dB)		≤29	≤29	≤29	≤29	≤27	≤27
Communication		CAN	CAN	CAN	CAN	CAN & 485	CAN & 485
Weight (kg)		57.5 ± 1	79 ± 1	57.5 ± 1	79 ± 1	61 ± 1	77± 1
Ingress Protection		IP66					
Dimensions (W × H × D mm)		800 × 326 × 270					
Function Configuration		Heating (Integrated); Aerosol fire extinguishing (Integrated)		Aerosol fire extinguishing (Integrated)		Heating (Integrated); Aerosol fire extinguishing (Integrated)	
Max. Storage time		12 months (-20°C ~ +35°C) 6 months (+35°C ~ +45°C)					
Scalability*4		12 pcs					
Mounting Method		Floor stacked / Wall-mounted				Floor stacked / Wall-mounted / Grounded	
Cycle Life*5		≥8000	≥8000	≥8000	≥8000	≥10000	≥10000
Standard and Certification	Safety	IEC62619, IEC60730, EN62477, IEC63056, IEC62040, CE, CEC, VDE2510				IEC62619, IEC60730, EN62477, IEC63056, IEC62040, CE, CEC, Regulation 2023 / 1542, VDE2510-50	
	EMC	CE, RCM					
	Transportation	UN38.3, ADR					

*1: Test conditions, 100% DOD (cell 2.85~3.6V voltage range), 0.2P charge & discharge at 25±2°C for battery system at the beginning of life. Usable energy is defined by its initial design value. Actual available energy may vary depending on charge/discharge rate, environmental conditions (e.g. temperature), transport and storage factors.
*2: Test conditions, 100% DOD (cell 2.87~3.61V voltage range), 0.4P charge & discharge at 25±2°C for battery system at the beginning of life. Usable energy is defined by its initial design value. Actual available energy may vary depending on charge/discharge rate, environmental conditions (e.g. temperature), transport and storage factors.
*3: Max. Input Power /Max. Output Power/Peak.Output Power derating will occur related to Temperature and SOC.
*4: For single-column stacked installations, the maximum number of parallel units is 6.
*5: Based on test data under specific laboratory conditions.
*: Please visit GoodWe website for the latest certificates.

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