

# 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

### 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.

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| Technical Data | | GW5.1-BAT-D-G20 | GW8.3-BAT-D-G20 | GW6.0-BAT-D-G20 | GW9.0-BAT-D-G20 |
|---|---|---|---|---|---|
| Battery Type | | LFP ($LiFePO_4$) | | | |
| Rated Energy (kWh) | | 5.12 | 8.32 | 6.0 | 9.0 |
| Usable Energy (kWh) | | 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 | 7.1 | 10.7 |
| Max. Output Current (System) (A) | | 13.2 | 21.0 | 7.9 | 11.8 |
| Max. Input Power (System) (kW)*3 | | 5.0 | 8.0 | 3.0 | 4.5 |
| Max. Output Power (System) (kW)*3 | | 5.0 | 8.0 | 3.0 | 4.5 |
| Peak.Output Power (System) (kW)*3 | | 7.5 @10s | 12 @10s | 4.5 @ 10s | 6.75 @ 10s |
| Charging Temperature Range (°C) | | -18 ~ +55 | -18 ~ +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 | ≤27 | ≤27 |
| Communication | | CAN | CAN | CAN & 485 | CAN & 485 |
| Weight (kg) | | 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) | | | |
| Max. Storage time | | 12 months (-20°C ~ +35°C)<br>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 | ≥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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