

## Lynx D G2 Series

5/6/8/9kWh | 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<sup>1</sup>
- Heating technology for reliable operation from -20°C to 55°C<sup>2</sup>



### 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

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

| 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 <sub>4</sub> )                                        |                  |                                         |                  |                                                                                              |                   |
| Rated Energy (kWh)                                   |                | 5.12                                                              | 8.32             | 5.12                                    | 8.32             | 6.0                                                                                          | 9.0               |
| Usable Energy (kWh)                                  |                | 5.0 <sup>1</sup>                                                  | 8.0 <sup>2</sup> | 5.0 <sup>1</sup>                        | 8.0 <sup>2</sup> | 5.9 <sup>3</sup>                                                                             | 8.85 <sup>3</sup> |
| Operating Voltage Range (V)<br>(single phase system) |                | 350 ~ 550                                                         |                  |                                         |                  |                                                                                              |                   |
| Operating Voltage Range (V)<br>(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) <sup>14</sup>         |                | 5.0                                                               | 8.0              | 5.0                                     | 8.0              | 3.0                                                                                          | 4.5               |
| Max. Output Power (System) (kW) <sup>14</sup>        |                | 5.0                                                               | 8.0              | 5.0                                     | 8.0              | 3.0                                                                                          | 4.5               |
| Peak.Output Power (System) (kW) <sup>14</sup>        |                | 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)<br>6 months (+35°C ~ +45°C)             |                  |                                         |                  |                                                                                              |                   |
| Scalability <sup>5</sup>                             |                | 12 pcs                                                            |                  |                                         |                  |                                                                                              |                   |
| Mounting Method                                      |                | Floor stacked / Wall-mounted                                      |                  |                                         |                  | Floor stacked / Wall-mounted / Grounded                                                      |                   |
| Cycle Life <sup>6</sup>                              |                | ≥8000                                                             | ≥8000            | ≥8000                                   | ≥8000            | ≥10000                                                                                       | ≥10000            |
| Country of Manufacture                               |                | China                                                             |                  |                                         |                  |                                                                                              |                   |
| 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, 98% 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. AActual available energy may vary depending on charge/discharge rate, environmental conditions (e.g. temperature), transport and storage factors.

\*2: Test conditions, 96% 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. AActual available energy may vary depending on charge/discharge rate, environmental conditions (e.g. temperature), transport and storage factors.

\*3: Test conditions, 98% 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.

\*4: Max. Input Power /Max. Output Power/Peak.Output Power derating will occur related to Temperature and SOC.

\*5: For single-column stacked installations, the maximum number of parallel units is 6.

\*6: Based on test data under specific laboratory conditions.

\*: Please visit GoodWe website for the latest certificates.