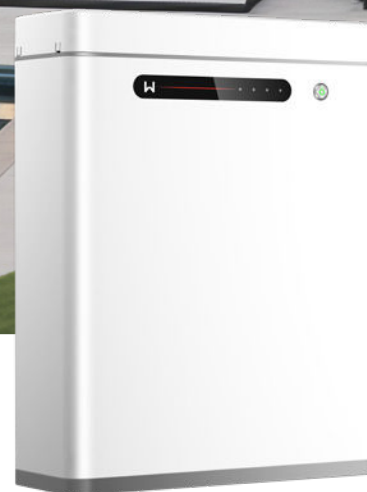


Lynx U G3 Series

5kWh | Low Voltage Battery

The Lynx U G3 Series battery is specially designed for residential applications, delivering enhanced and dependable energy storage solutions. Its compact and lightweight design ensures easy integration into homes for both self-consumption and backup applications. Each battery pack is a standalone unit with an integrated Battery Management System (BMS), eliminating the need for a Power Control Unit (PCU). Featuring high-performance LFP battery technology, it boasts a maximum 90A charging/100A discharging rate. The battery's versatile installation options—floor or wall mounting—make it easy to set up, while its expandability allows for connection of up to 30 modules in parallel, reaching a total capacity of 150kWh.



High Power Efficiency

- Max. 90A charging/100A discharging rate
- Long cycle life, ≥ 6000 times until 70% SOH under $25 \pm 2^\circ\text{C}$, 0.5C and 90% DOD
- Heating film for ensured low-temperature performance¹



Superb Safety & Reliability

- Reliable LFP technology with high cycle stability
- Aerosol-based fire suppression optional¹
- IP65 protection for indoor & outdoor installation



Friendly & Thoughtful Design

- Easy wall-mounting or floor installation
- Modular design simplifies installation and maintenance



Expandable & Flexible

- Up to 30 units in parallel, scalable from 5kWh to 150kWh
- Compatible with GoodWe hybrid inverters

Technical Data	LX U5.0-30
Nominal Battery Energy (kWh)	5.12
Usable Energy (kWh) ^{*1}	5
Cell Type	LiFePO4
Nominal Voltage (V)	51.2
Nominal Charge / Discharge Power (kW)	3.07 / 2.56
Operating Voltage Range (V)	43.2 ~ 58.24
Nominal Charge Current (A)	60
Max. Continuous Charge Current (A) ^{*2,3}	90
Nominal Discharge Current (A)	50
Max. Continuous Discharge Current (A) ^{*2,3}	100
Pulse Discharging Current (A) ^{*2,3}	<200A (30S)
Max. Continuous Charging / Discharging Power (kW) ^{*5}	4.95
Communication	CAN
T _{chg} (Charging Temperature Range) (°C)	0<T≤55
T _{Disch} (Discharging Temperature Range) (°C)	-20<T≤55
Ambient Temperature (°C)	0<T≤40 (Recommend 10<T≤30) Optional heating: -20<T≤40 (Recommend 10<T≤30)
Relative Humidity	5 ~ 95%
Maximum Storage Time	12 Months (Maintenance-free)
Max. Operating Altitude (m)	4000
Heating	Optional
Fire Suppression	Optional, Aerosol
Unit Weight (kg)	50
Unit Dimensions (W × H × D mm)	460 × 580 × 160
Enclosure Protection Rating	IP65
Applications	On Grid / On Grid + Backup / Off Grid
Scalability	30P
Mounting Method	Wall Mounted / Grounded
Depth of Discharge	Default 0 ~ 90%, support to expand to 100%
Round-trip Efficiency ^{*1}	≥96%
Cycle Life ^{*4}	≥6000 times until 70% SOH under 25 ± 2°C, 0.5C and 90% DOD
Safety	VDE2510-50, IEC62619, IEC62040, N140, IEC63056
EMC	EN IEC61000-6-1, EN IEC61000-6-2, EN IEC61000-6-3, EN IEC61000-6-4
Transportation	UN38.3, ADR
Environment	ROHS
Country of Manufacture	China

*1: Test conditions: 100% DOD, 0.2C charge & discharge at 25°C ± 2°C, at the beginning of life.

*2: The system's working current and power values will be related to temperature and State of Charge (SOC).

*3: Max. charge / discharge current values may be variant with different inverter models.

*4: The actual battery cycle life is closely related to the ambient temperature, DOD, and C Rate.

*5: The voltage changes during the charging and discharging process except for the plateau period. The plateau voltage during the charging process will be higher than 3.2V due to the polarization of the battery cell, so the measured charging power will be the same as the discharging power.

*: Please visit GoodWe website for the latest certificates.