

GOODWE

Smart optimisation of energy autonomy across residential ecosystems

- ✓ Optimised energy autonomy
- ✓ Smart and efficient operations
- ✓ Modern and compact design
- ✓ Highest safety standards



NO.6
93.4%

Operating at the heart of the integrated PV power and storage system, our ET PLUS+ hybrid inverters are designed to maximise energy output, enhance self-consumption, realise peak-shaving and facilitate backup power. With intelligent load controls and wide battery voltage range, the set-up can be flexibly configured to meet individual needs across the residential ecosystem. Combine with GoodWe battery system Lynx Home F for a safe and reliable energy storage solution.

-  Fanless and silent
-  Smart home integration
-  UPS level switching <10ms



ET PLUS+ (16A) Series

Hybrid Inverter | 5 – 10kW | 2 MPPTs | Three Phase | HV

EMEA

Technical Data	GW5KN-ET	GW6.5KN-ET	GW8KN-ET	GW10KN-ET
Battery Input Data				
Battery Type	Li-Ion			
Nominal Battery Voltage (V)	500			
Battery Voltage Range (V)	180 ~ 600			
Start-up Voltage (V)	180			
Number of Battery Input	1			
Max. Continuous Charging Current (A)	25			
Max. Continuous Discharging Current (A)	25			
Max. Charging Power (W)	7500	8450	9600	10000
Max. Discharging Power (W)	7500	8450	9600	10000
PV String Input Data				
Max. Input Power (W)	7500	9700	12000	15000
Max. Input Voltage (V) ¹	1000			
MPPT Operating Voltage Range (V) ²	200 ~ 850			
Start-up Voltage (V)	180			
Nominal Input Voltage (V)	620			
Max. Input Current per MPPT (A)	16			
Max. Short Circuit Current per MPPT (A)	21.2			
Number of MPP Trackers	2			
Number of Strings per MPPT	1			
AC Output Data (On-grid)				
Nominal Output Power (W)	5000	6500	8000	10000
Nominal Apparent Power Output to Utility Grid (VA)	5000	6500	8000	10000
Max. Apparent Power Output to Utility Grid (VA) ²	5500	7150	8800	11000
Max. Apparent Power from Utility Grid (VA)	10000	13000	15000	15000
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			
Output Voltage Range (V)	0 ~ 300			
Nominal AC Grid Frequency (Hz)	50 / 60			
AC Grid Frequency Range (Hz)	45 ~ 65			
Max. AC Current Output to Utility Grid (A)	8.5	10.8	13.5	16.5
Max. AC Current From Utility Grid (A)	15.2	19.7	22.7	22.7
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
AC Output Data (Back-up)				
Back-up Nominal Apparent Power (VA)	5000	6500	8000	10000
Max. Output Apparent Power without Grid (VA) ³	5000 (10000@60sec)	6500 (13000@60sec)	8000 (16000@60sec)	10000 (16500@60sec)
Max. Output Apparent Power with Grid (VA) ³	5000	6500	8000	10000
Max. Output Current (A)	8.5	10.8	13.5	16.5
Nominal Output Voltage (V)	400 / 380			
Nominal Output Frequency (Hz)	50 / 60			
Output THDv (@Linear Load)	<3%			
Efficiency				
Max. Efficiency	98.0%	98.0%	98.2%	98.2%
European Efficiency	97.2%	97.2%	97.5%	97.5%
Max. Battery to AC Efficiency	97.5%			
MPPT Efficiency	99.9%			
Protection				
PV Insulation Resistance Detection	Integrated			
Residual Current Monitoring	Integrated			
PV Reverse Polarity Protection	Integrated			
Anti-islanding Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Switch	Integrated			
DC Surge Protection	Type II			
AC Surge Protection	Type III			
Remote Shutdown	Integrated			
General Data				
Operating Temperature Range (°C)	-35 ~ +60			
Relative Humidity	0 ~ 95%			
Max. Operating Altitude (m)	4000			
Cooling Method	Natural Convection			
User Interface	LED, APP			
Communication with BMS ⁴	RS485, CAN			
Communication with Meter	RS485			
Communication with Portal	WiFi / Wi-Fi + LAN (Optional) / 4G (Optional)			
Weight (kg)	24			
Dimension (W x H x D mm)	415 x 516 x 180			
Topology	Non-isolated			
Self-consumption at Night (W) ⁵	<15			
Ingress Protection Rating	IP66			
Mounting Method	Wall Mounted			

*1: For 1000V system, Maximum operating voltage is 950V.

*2: According to the local grid regulation.

*3: Can be reached only if PV and battery power is enough.

*4: CAN communication is configured default. If RS485 communication is used, please replace the corresponding communication line.

*5: No Back-up Output.

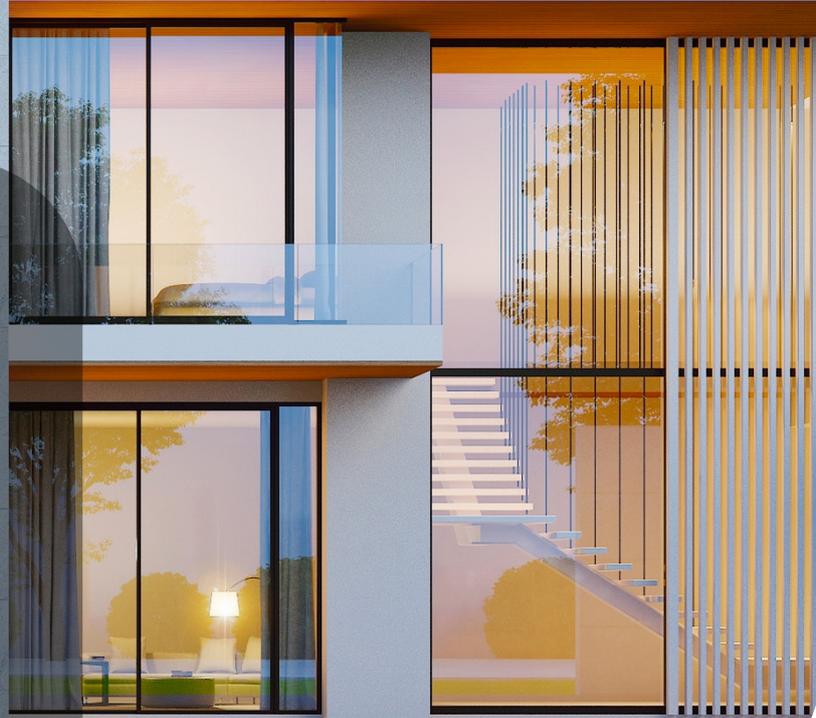
*: Not all certifications & standards listed, check the official website for details.

*: Please visit GoodWe website for the latest certificates.

Lynx D Series

5.0kWh | High Voltage Battery

GoodWe's Lynx D Series is a high-voltage lithium battery specially designed for residential applications with superior performance. Compatible with GoodWe residential energy storage inverters, Lynx D Series comes with one-stop-shop solutions saving you considerable time and effort. Each battery pack is designed as a standalone unit, incorporating a dedicated Battery Management System (BMS). This versatile system serves effectively in scenarios focused on self-consumption and backup power needs. With its sleek and modern design, it seamlessly blends into residential settings. The installation and commissioning have been made quicker and easier than ever with a user-friendly plug and play wiring system. Moreover, Lynx D batteries are engineered to support a mix of old and new battery packs, ensuring adaptable expansion and hassle-free replacement options.



Smart Control

- Remote diagnosis and update via inverter
- Auto reboot after undervoltage



Friendly & Thoughtful Design

- Sleek and modern design
- Plug and play wiring



Superb Safety & Reliability

- Reliable LFP technology with high cycle stability
- IP66 protection for outdoor installation safety



Flexible & Adaptable Applications

- Modular design for parallel connection
- Supports mixing new and old battery packs for flexible expansion

Technical Data		LX D5.0-10
Usable Energy (kWh) ¹		5
Cell Type		LFP (LiFePO ₄)
Nominal Voltage (V)		Charge: 435; Discharge: 380
Output Voltage (V)		320 ~ 480
Nominal Power (kW) ²		3
Peak Power ²		5kW, 10s
Operating Temperature Range (°C)		Charge: 0 ~ +53; Discharge: -20 ~ +53
Relative Humidity		0 - 95%
Max. Operating Altitude (m)		4000
Communication		CAN
Weight (kg)		52
Dimensions (W x H x D mm)		700 x 380 x 170
Ingress Protection Rating		IP66
Mounting Method		Floor stacked / Wall-mounted
Standard and Certification	Safety	IEC62619, IEC60730, VDE2510-50, CE, CEC
	EMC	CE, RCM
	Transportation	UN38.3

*1: Test conditions, 100% DOD, 0.2C charge & discharge at +25 ±3°C for battery system at beginning life. System Usable Energy may vary with different Inverter.

*2: Power derating will occur related to Temperature and SOC.

*: Please visit GoodWe website for the latest certificates.

*: All pictures shown are for reference only. Actual appearance may vary.