

GENIXGREEN SERIES

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High-Performance Lithium LiFePO4 Battery Storage Systems

PRODUCT OVERVIEW

The **GENIXGREEN Lithium Battery Series** represents a cutting-edge Energy Storage Solution (ESS) engineered for residential and commercial power applications. Utilizing ultra-reliable Lithium Iron Phosphate (LiFePO4) chemistry, these systems deliver exceptional safety, an extended lifecycle of over 6,000 cycles, and smart connectivity for smart energy management.



GENIXGREEN Premium Smart Battery

KEY FEATURES & TECHNICAL HIGHLIGHTS

- **Flexible Installation:** Dual-purpose configuration supports both **Wall-Mounted** and **Floor-Standing** setups to optimize space.
- **Smart Monitoring:** Integrated Smart BMS with **Free Wi-Fi Connectivity** for real-time remote performance tracking.
- **High Performance:** Standard nominal voltage of 51.2V with massive capacity options up to 410Ah (21.00 kWh) per single block.
- **Advanced Protection (Model 4):** Upgraded **IP65** enclosure rated for robust environmental resilience, coupled with an automatic **Built-in Fire Protection / Extinguishing System** to eliminate fire spread hazards instantly.

PRODUCT TECHNICAL SPECIFICATIONS LINEUP

No.	Product Model	Electrical Rating	Energy Capacity	IP Rating	Special Features
1	ES-BOX12 PLUS Free Wifi	51.2V 200Ah	10.24 kWh	IP20	Free Wi-Fi Included
2	ES-BOX12 MAX+ Free wifi	51.2V 314Ah	16.07 kWh	IP20	Free Wi-Fi, High Capacity
3	BOX41-D-PLUS Free Wifi	51.2V 410Ah	21.00 kWh	IP20	Free Wi-Fi, Ultra Capacity
4	ES-BOX12 PLUS (IP65 Upgraded)	51.2V 200Ah	10.24 kWh	IP65 Waterproof	Automated Fire Protection

GENERAL SYSTEM & ENVIRONMENTAL PARAMETERS

Parameter Description	Value / Specification Range
Battery Chemistry Type	Lithium Iron Phosphate (LiFePO4)
Cycle Life (80% DOD, 25°C)	≥ 6,000 Cycles
Recommended Depth of Discharge (DOD)	90%
Communication Protocols Supported	Wi-Fi, CAN2.0, RS485 / RS232
System Composition	BMS management system, Fire protection system (Model 4), Safety enclosure
Cooling Method	Natural Convection / Air Cooling
Operating Temperature Range	0°C to 55°C (Charging) / -20°C to 55°C (Discharging)
Certifications & Compliance	CE, UN38.3, IEC62619, UL1973 / UL9540A Compatible



Heavy-Duty Bottom Terminals & Safety Labels

Installation Notes:

- Ensure proper ground connections prior to powering up the system.
- Model 4 features high-level IP65 sealing, suitable for sheltered outdoor installations.
- Keep clear of high-temperature areas and direct prolonged sunlight.

* Technical parameters and configurations are subject to continuous engineering updates. Please contact your official GENIXGREEN representative for exact deployment dimensions.