



HIGH-CAPACITY RESIDENTIAL
STORAGE
Floor-standing ESS
LZH-ESS-51.2-314-16.07kWh

DESCRIPTION

The LZH-ESS-51.2-314-16.07kWh is a high-capacity, floor-standing residential energy storage system designed for large homes, villas and small commercial premises. With 314 Ah LFP cells delivering 16.07 kWh of usable energy and 7.68 kW continuous power, it provides whole-home backup and solar optimization for demanding households.

KEY FEATURES

01 App Remote Control
Monitor & manage your system from a smartphone app

02 Safe LFP Chemistry
Equipped with high-performance, safe battery cells

03 Wide Compatibility
Universally compatible with leading inverters

04 Floor-standing Vertical Design
Equipped with casters for easy mobility

Technical Specifications

HIGH-CAPACITY RESIDENTIAL ENERGY STORAGE SYSTEM

LZH-ESS-51.2-314-16.07kWh	
SYSTEM DATA	
Battery type	LiFePO ₄ (Lithium Iron Phosphate)
Rated capacity	314 Ah
Total energy	16.07 kWh
Rated voltage	51.2 V
Voltage range	43.2 – 58.4 V
Rated charging current	150 A
Max. charging current	150 A
Rated discharging current	150 A
Max. discharging current	150 A
Rated charging power	7.68 kW
Max. charging/discharging power	7.68 kW
Communication	CAN • RS232 • RS485
Recommended depth of discharge (DOD)	95%
Max. parallel quantity	16
PROTECTION	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
DC breaker	Integrated
GENERAL	
Dimensions (W × H × D)	800 × 515 × 260 mm
Weight	NW 121.1 kg • GW 136 kg
Charging temperature	0 °C ~ 45 °C
Discharging temperature	-10 °C ~ 60 °C
Protection degree	IP54
Cooling	Natural air cooling
Altitude	≤ 4,000 m
Cycle life	6,000 – 8,000 cycles
Certification	UN38.3
Warranty	5 years
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