



RESIDENTIAL ENERGY STORAGE

Wall-mounted ESS

LZH-ESS-51.2-100-5.12kWh

DESCRIPTION

The LZH-ESS-51.2-100-5.12kWh is a compact residential energy storage system with improved safety, long lifespan, and reliable backup performance. Built on LFP battery technology with a 6,000–8,000 cycle life and a space-saving wall-mounted design, it delivers 5.12 kWh per unit and supports up to 15 units in parallel for a scalable 76.8 kWh.

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 Compact Wall-mount
Save installation space, simple & fast mounting

Technical Specifications

RESIDENTIAL ENERGY STORAGE SYSTEM

LZH-ESS-51.2-100-5.12kWh	
SYSTEM DATA	
Battery type	LiFePO ₄ (Lithium Iron Phosphate)
Rated capacity	100 Ah
Total energy	5.12 kWh
Rated voltage	51.2 V
Voltage range	43.2 – 58.4 V
Rated charging current	100 A
Max. charging current	100 A
Rated discharging current	100 A
Max. discharging current	100 A
Rated charging power	5.12 kW
Max. charging/discharging power	5.12 kW
Communication	CAN • RS232 • RS485
Recommended depth of discharge (DOD)	95%
Max. parallel quantity	15
PROTECTION	
Overvoltage and undervoltage protection	Integrated
Overcurrent protection	Integrated
Overtemperature and undertemperature protection	Integrated
DC breaker	Integrated
GENERAL	
Dimensions (W × H × D)	580 × 430 × 200 mm
Weight	NW 48.35 kg • GW 49.85 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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