



M4850 SERIES

BATTERY SYSTEM DESIGNED FOR PV HOUSEHOLD APPLICATION



Plug & Play



Modular



Safety



20 Years Lifetime

Energy storage innovation leader, smart and green life builder



SMARTEN YOUR ENERGY



DATASHEET

Physical

Model	M4850-M
Battery Type	LiFePO4 (LFP)
Battery Manufacturer	LISHEN
System Weight	Approx. 33 kg
Outline Dimensions	482× 460× 132 mm
Protection Level	IP51

Electrical

Energy Capacity	2.5 KWh
Usable Capacity	2.0 KWh
DOD	80%
Nominal Voltage	51.2 V
Internal Resistance	≤100 mΩ
Cycle Life	≥6000 @80%

BMS

Monitoring Parameters	System voltage, current cell voltage, cell temperature PCBA temperature measurement.
SOC	Intelligent algorithm
Communication	CAN and RS485 compatible

Warranty

Product Warranty	5 Years
Performance Warranty	10 Years
Expected Lifetime	20 Years

Operation

Max. Charge Current	25 A (0.5C)
Max. Discharge Current	25 A (0.5C)
Max. Charge Current (OFF-GRID)	25 A (0.5C)
Max. Discharge Current (OFF-GRID)	50 A (1C)
Max. Discharge Pulse Current (10S)	100 A
Power Consumption	< 2 W (Work) < 100 mW (Sleep)
Operating Temperature Range	0°C To 40°C
Transport Or Storage Temperature Range	-10°C To 45°C
Humidity	15% - 85%

Cabinet

Outline Dimension	600× 600× 800 mm
Max. Modules	4 (10KWh)
Color	Black
Work Environment	Temperature: - 40°C To 60°C, Relative humidity: < 95 %
IP Protection Class	IP2(0)
Standards / Certificates	ANSI EIA, RS-310-D, IEC297-2, DIN41491, PART1, DIN41494, PART7, GB / T3047.2-92, 19" International standard, Metric standard, ETSI
Safety	① Excellent conductivity and antistatic ability; ② High shock resistance performance
Reliability	① Firm and stable structure ② Cabinet bearing capacity: 800 kg (While still), > 500 kg (While moving) ③ Tray bearing capacity: 50 kg

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