

Battery System Designed For PV Household Application

Battery Series M4860



✓ Key Features



Modular



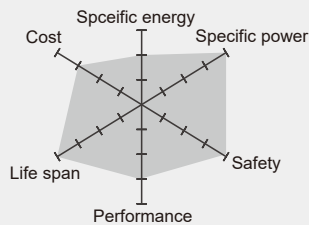
Plug & play



Safety



Long lifespan



CHEMISTRY

AlphaESS only goes with LFP for safest operation and longest cycle-life

Whilst Alpha's batteries are slightly larger per physical capacity versus other types of Li-ion used in electronics and EVs, they are easily banked in parallel close together because they don't suffer heat issues and thermal runaway. We have chosen LiFePO₄ for their superior life, safety and environmental performance.

About AlphaESS

As one of the earliest pioneers in energy storage market with lithium iron technology, AlphaESS has a vision to pave the path for everyone in the world to enjoy clean energy one day.

We are a multinational company that currently has more than 10'000 residential and commercial systems running in 30 countries globally and our products are accredited by IEC, TÜV, CEC and many other international standards.

All AlphaESS energy systems are integrated with smart energy management solutions. AlphaESS is committed to revolutionize the future energy network through our patented German technologies.



Official Website



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Physical	
Model	M4860
Battery Type	LiFePO4 (LFP)
Battery Manufacturer	LISEN
System Weight	40kg
Dimension (W x D x H)	482mm x 460mm x 156mm
IP Protection	IP20
Warranty	5 Year Product Warranty, 10 Year Performance Warranty
Electrical	
Energy Capacity	3.0kWh
Usable Capacity	2.7kWh
DOD	90%
Nominal Voltage	51.2V
Operation Voltage Range	45 - 58V
Internal Resistance	≤50mΩ
Cycle Life	≥8000
Operation	
Max. Charge Current	30A (0.5C)
Max. Discharge Current	30A (0.5C)
Operating Temperature Range	-10°C - 50°C*
Humidity	15% - 85%
BMS	
Power Consumption	<2W (Work), <100mW (Sleep)
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement.
SOC	Intelligent algorithm
Communication	CAN and RS485 compatible

*When the temperature is below 0°C or above 40°C, the performance will be limited.

