



Optimal Thermal Management with M7-1000V-125kW/260kWh Lithium Battery Storage for Compact Design

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: SHPN
- Certification: IEC62619/IEC62040-1/CE/VDE2510-50/UL1973/UL9540A CE EMC/CE LVD/EN 50549-1:2019/EN 50549-2:2019/IEC 61000-6-2/IEC62477-1
- Model Number: L260
- Minimum Order Quantity: 1 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T
- Supply Ability: consult online



Product Specification

- Nominal Capacity (kWh): 260
- Battery Type: Li-ion (LFP)
- Cycle Life: >8500
- Protection Class: IP55
- Rated AC Power (kW): 125
- Highlight: **ip55 lithium battery storage, ip55 commercial energy solutions**

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Product Description

Optimal Thermal Management with M7-1000V-125kW/260kWh Lithium Battery Storage for Compact Design

 **260~1560kWh**

 **125~750kW**

 **0.5C**

 **400Vac**

 **PCS Integrated**

 **Superior Safety**

 **Extraordinary Performance**

 **Easy Set-up & Maintenance**

Product Description:

The **M7-1000V-125kW/260kWh** energy storage system is an innovative and compact solution tailored for scenarios requiring high efficiency and adaptability. Leveraging advanced lithium iron phosphate (Li-ion LFP) battery technology, this system delivers superior performance with a cycle life exceeding 8,500 cycles and a round-trip efficiency greater than 95%. Its liquid cooling system ensures optimal thermal management, enabling reliable operation in a wide temperature range of -25°C to 50°C. Designed for modern energy needs, it supports applications such as wide temperature range adaptability, ancillary services, electricity arbitrage, demand response, and backup power. The M7 system's modular design supports up to 6 parallel units, making it scalable for diverse energy requirements while maintaining a small physical footprint.

General Data	M7-1000V-125kW/260kWh
Dimension(W*D*H mm)	950*1300*2480
Weight (tons)	3
Working Temperature Range(°C)	-25-50*
Protection Class	IP55
Altitude (m)	≤3000
Humidity (RH)	5%-95%
Fire Extinguishing	Aerosol
Cooling System	Liquid Cooling
Cooling System Consumption (kW)	2.56
Aux Power Consumption(kW,continuous/peak,incl.HVAC)	2.7/3.85
Max Parallel No.	6
Anti-Corrosion	C3(C5 Optional)
Certification*	IEC62619/IEC62040-1/CE/VDE2510-50/UL1973/UL9540A CE EMC/CE LVD/EN 50549-1:2019/EN 50549-2:2019/IEC 61000-6-2/IEC62477-1
Battery Data	
Battery Type	Li-ion (LFP)
Nominal Capacity(kWh)	260
Depth of Discharge	98%(single string)
Cycle Life	>8500
DC Voltage Range (Vdc)	702-936(single string)
Max./Nominal Operation Current(A)	200/157
Round trip Efficiency@0.5C-rate	>95%
PCS DC/AC Data On-grid Mode	
Rated AC Power(kW)	125
Rated AC Output Voltage (Vac)	400
Rated AC Output Frequency (Hz)	50
Max AC Current (A)	181
Overload Capacity	110%
AC PF	1.0(Lagging)-1.0(Leading)
CEC Efficiency@0.5C-rate	98%
Isolation Type	Non-isolation
Operation Mode	

Communication Type	Ethernet(Modbus TCP)
Operation Logic	Wide Temp Range/Ancillary Service/Electricity Arbitrage/Demand Response/Backup

Applications

The **M7-1000V-125kW/260kWh** energy storage system offers unique advantages for specialized applications:

Electricity Arbitrage and Demand Response: With its high CEC efficiency (98%) and flexible communication protocols, the M7 system excels in participating in electricity markets, enabling users to buy energy during low-price periods and sell it during high-price periods, optimizing financial returns.

Wide Temperature Environments: Its robust liquid cooling system and wide operational temperature range make it an ideal choice for regions with extreme climates, ensuring consistent performance under challenging conditions.

Grid Ancillary Services: The M7 system's fast response time and high power output (125 kW) enable it to provide critical grid stabilization services such as frequency regulation, voltage support, and spinning reserve.

Critical Backup Power: With a nominal capacity of 260 kWh and advanced safety features like aerosol fire suppression and anti-corrosion options (C3/C5), the M7 system provides reliable backup energy for critical infrastructures, including data centers, telecom towers, and industrial operations.

Decentralized Microgrid Solutions: Its modular scalability and Ethernet communication ensure seamless integration into decentralized microgrid configurations, offering enhanced energy independence and local grid stabilization.

The M7-1000V-125kW/260kWh system is a cutting-edge energy storage solution designed to meet the evolving demands of energy management and sustainability while providing unmatched reliability and performance.



**Wide Temp
Range**



**Ancillary
Service**



**Electricity
Arbitrage**



**Demand
Response**



Backup

Shipping Methods

Supports global air and sea shipping

If you require more detailed product information or have customized requests, please contact us. Providing efficient service that satisfies our customers is our responsibility.



RICHGOOD ENERGY CO.,LTD



willa@fuhaosolar.com



fuhaosolar.com

Rm3810 Baoli E Building Pa Zhou Haizhu district Guangzhou