



Global Compliance and Safety Standards Guaranteed with M7-1500V-417kWh Lithium Battery Storage System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: SHPN
- Certification: IEC62619/IEC62040-1/CE/VDE2510-50/UL1973/UL9540A
- Model Number: L417
- Minimum Order Quantity: 1 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T
- Supply Ability: consult online



Product Specification

- Battery Type: Li-ion (LFP)
- Nominal Capacity: 313 KWh
- Cycle Life: >7,000 Cycles
- Round-trip Efficiency: 96% (@ 0.5C-rate)
- Protection Class: IP55
- Highlight: **ip55 lithium storage battery ,
ip55 lithium battery storage system**

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Product Description

Global Compliance and Safety Standards Guaranteed with M7-1500V-417kWh Lithium Battery Storage System



2085~5004kWh



1000~2500kW



0.5C



1123~1497Vdc

Product Description

The **M7-1500V-417kWh** energy storage system is a high-capacity, performance-driven solution designed for large-scale industrial and commercial energy applications. Featuring advanced lithium iron phosphate (Li-ion LFP) battery technology, it offers an impressive nominal capacity of 417 kWh, a cycle life exceeding 8,500 cycles, and a round-trip efficiency of over 95%. The system is equipped with a liquid cooling mechanism, ensuring precise thermal management for reliable operation in extreme temperatures ranging from -25°C to 55°C. Its robust design includes a modular configuration supporting up to 12 parallel units, making it ideal for scaling energy needs. With certifications such as IEC62619 and UL9540A, the M7-1500V-417kWh ensures global compliance and unparalleled safety standards.



Extraordinary Performance



Superior Safety



Flexible Configuration



Easy Set-up & Maintenance

General Data		M7-1500V-417kWh
Dimension(W*D*H mm)		1300*1300*2410
Weight(tons)		3.67
Working Temperature Range(°C)		-25-55*
Protection Class		IP55
Altitude (m)		≤4000
Humidity(RH)		5%-95%
Fire Extinguishing		Aerosol
Cooling System		Liquid Cooling
Cooling System Consumption(kW)		3.5
Aux.Power Consumption (continuous/peak,incl.HVAC)(kW)		3.75/5
Max.Parallel No.		12
Anti-Corrosion		C3(C5 Optional)
Certification*		IEC62619/IEC62040-1/CE/VDE2510-50/UL1973/UL9540A
Battery Data		
Battery Type	Li-ion (LFP)	
Nominal Capacity(kWh)	417	
Depth of Discharge	98%(single string)	
Cycle Life	>8500	
DC Voltage Range (Vdc)	1123-1497(single string)	
Max./Continuous Operation Current (A)	200/157	
Efficiency@0.5C-rate	>95%	
Operation Mode		
Communication Type	Ethernet(Modbus TCP)/CAN	
Operation Logic	Wide Temp Range,Ancillary Service/Electricity Arbitrage/Demand Response/Backup	

Applications

The **M7-1500V-417kWh** energy storage system offers advanced capabilities for specialized use cases:

Large-Scale Industrial Peak Shaving: Designed to handle high power demands, this system enables industries to optimize energy usage by reducing peak demand costs, ensuring operational efficiency even in energy-intensive processes.

Wide Temperature and Harsh Environments: Its advanced liquid cooling system and high-altitude operational capability (≤4000 meters) make it suitable for remote mining sites, deserts, or alpine regions, where reliability is crucial.

Renewable Energy Buffering: With a substantial capacity of 417 kWh, the system acts as a powerful buffer for solar and wind energy farms, storing excess energy during peak generation periods and supplying it during demand surges.

Critical Infrastructure Support: With advanced safety features like aerosol fire suppression and optional C5-level anti-corrosion, it provides dependable backup power for hospitals, data centers, and emergency services.

Utility-Scale Grid Services: Its ability to operate in parallel configurations and provide ancillary services like voltage support and frequency regulation makes it a key asset for utility-scale grid stabilization projects.

The M7-1500V-417kWh energy storage system redefines large-scale energy management by offering unmatched scalability, safety, and adaptability to meet the complex demands of modern energy landscapes.



**Wide Temp
Range**



Ancillary Service



Electricity Arbitrage



Demand Response

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.



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