



1.5MW/1.6MWh Liquid Cooling System for Consistent Performance in High-Demand Operations Lithium Battery Storage

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: SHPN
- Certification: IEC62477-1/IEC62040-1/IEC62619/IEC63056/UKCA/CE LVD/CE EMC/UN38.3/VDE-AR-E 2510-50 CE LVD/IEC 62477/ CE EMC/ IEC 61000/ EN 50549-1:2019/ G99/ AS4777
- Model Number: A1000-OMNI
- Minimum Order Quantity: 1 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T
- Supply Ability: consult online



Product Specification

- System Capacity (kWh): 1656
- DC Voltage Range (Vdc): 691.2~921.6
- Life Cycle: >8500
- Depth Of Discharge: 98% (single String)
- Dimension (W*D*H Mm): 6058*2438*2896
- Highlight: **Lithium Battery Storage,
Lithium Battery Storage,
Lithium Battery Storage**

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Product Description

1.5MW/1.6MWh Liquid Cooling System for Consistent Performance in High-Demand Operations Lithium Battery Storage

Product Description:



588~1673kWh



1C



500~1500kW



400Vac



All in One System



Flexible Configuration



Easy Set-up & Maintenance



High C rate

The **M8-20ft-1.5MW/1.6MWh** energy storage system is a versatile and compact solution designed for high-demand energy storage applications. With a capacity of 1656 kWh and a robust power output supported by three PCS units, it excels in providing reliable energy solutions for both grid-level and commercial use. Equipped with advanced liquid cooling technology, this system ensures optimal performance even in challenging environmental conditions with a working temperature range of -20°C to 50°C. Featuring global certifications such as IEC62477 and UL9540A, along with aerosol fire suppression and optional anti-corrosion protection (C3H/C5), the M8 system prioritizes safety, longevity, and adaptability.

Application Scenarios



Ancillary Service



Electricity Arbitrage



Demand Response



Backup

Battery System	M8-20ft-1.5MW/1.6MWh
System Capacity(kWh)	1656
DC Voltage range (Vdc)	691.2~921.6
Life Cycle	>8500
Depth of Discharge	98%(single string)
Dimension(W*D*H mm)	6058*2438*2896
Weight (tons)	25
Protection Class	IP55
Altitude (m)	≤3000
Humidity (RH)	95%
Cooling System	Liquid cooling
Cooling System Consumption (kW)	60kW
Aux.Power Consumption(continuous/peak,incl.HV AC)(kW)	40kW
Working Temperature Range(°C)	-20~50*
Fire Extinguishing	Aerosol
Communication Type	RS485/CAN/Ethernet
Operation Logic	Ancillary Service/Electricity Arbitrage/Demand Response/Backup
Certification*	IEC62477-1/IEC62040-1/IEC62619/IEC63056/UKCA/CE LVD/CE EMC/UN38.3/VDE-AR-E 2510-50 CE LVD/IEC 62477/CE EMC/IEC 61000/EN 50549-1:2019/G99/AS4777
Anti-Corrosion	C3H/C5 Optional
PCS DC/AC Data	On-grid Mode
PCS QTY	3
Rated AC Power(kW)	500
Rated AC Output Voltage (Vac)	400±15%
Rated AC Output Frequency(Hz)	50/60±2.5
Max AC Current(A)	760
Overload Capacity	125%~150%@200ms
AC PF	0.8~1 leading or lagging
CEC Efficiency	97%
Isolation Type	Non isolated type

Demand Response and Electricity Arbitrage:

The M8 system is tailored for grid operators and commercial users participating in demand response programs. Its 97% CEC efficiency and rapid response capabilities make it ideal for capitalizing on electricity price fluctuations, reducing costs, and maximizing returns in dynamic energy markets.

High-Performance Industrial Backup:

Designed to handle critical industrial applications, the M8-20ft-1.5MW/1.6MWh system provides robust backup power for manufacturing plants, warehouses, and heavy industries. Its liquid cooling system ensures consistent performance in high-demand operations, while the IP55-rated enclosure protects it in challenging industrial environments.

Renewable Energy Stabilization:

For renewable energy projects, this system acts as a stabilizer, storing excess energy from wind or solar farms and redistributing it during peak consumption periods. Its advanced PCS and high discharge depth (98%) ensure seamless integration with renewable power systems.

Microgrid and Off-Grid Applications:

The scalable design and advanced communication protocols (RS485, CAN, Ethernet) make the M8 system a perfect fit for microgrid solutions or remote locations requiring energy independence. Its ability to operate under variable load conditions enhances its utility for decentralized energy systems.

The **M8-20ft-1.5MW/1.6MWh** energy storage system sets a new standard in reliability and adaptability, addressing the growing complexities of modern energy management with cutting-edge technology and robust performance.

Min.
configuration

Optional
configuration

Standard
configuration

System configuration				
Rack	AC Connection		3P3W, 400Vac, 50/60Hz	
	QTY	kWh	500	1000
L1600-OMNI	3	558		
	6	1116		
	8	1488		
	9	1673		

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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