Sunwoda Energy Technology Co., Ltd.

As a subsidiary of Sunwoda Group, Sunwoda Energy focuses on lithium battery energy storage technologies. The company specializes in five major business sectors: utility energy storage, C&I energy storage, residential energy storage, network energy, and smart energy. Sunwoda Energy aims to meet customer's specific needs in segmented markets by providing innovative and competitive green energy products and solutions. The company is committed to becoming a leading industry player with expertise in energy storage products and solutions, investment and operational capabilities, and strong channel and brand influence.

95%
Compound Annual Revenue Growth Rate

18.52GWh
Accumulated ESS Installed Capacity

TOP5
Industry Ranking of Energy Storage Industry Planning

100+
Countries/Regions of Project Distribution

COMPREHENSIVE
ENERGY STORAGE SOLUTION PROVIDER

www.sunwodaenergy.com

SUNWODA ENERGY TECHNOLOGY CO., LTD.
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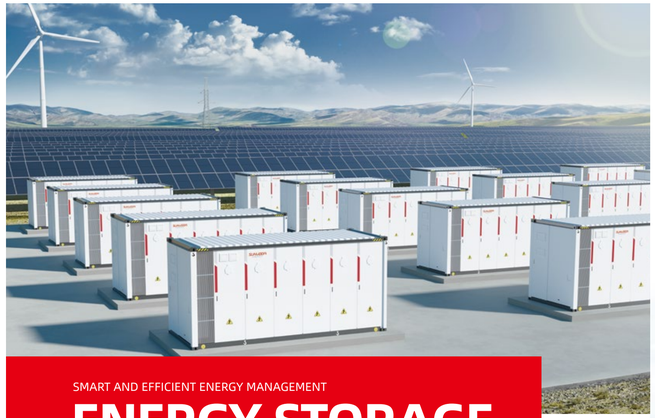
SUNWODA ENERGY



SMART AND EFFICIENT ENERGY MANAGEMENT

ENERGY STORAGE SOLUTIONS

SUNWODA ENERGY

Sunwoda Electronic Co., Ltd.

Established in 1997, with 27 years of development, Sunwoda has become a leading enterprise in the global lithium-ion battery industry, forming six major industry clusters including 3C batteries, electric vehicle batteries, energy technology, smart hardware, intelligent manufacturing and industrial internet, and third-party testing services. Sunwoda is committed to providing society with greener, faster, and more efficient integrated solutions for new energy.

2011
Listed on the Shenzhen Stock Exchange

50000+
Employees

NO.1
Global 3C Battery Shipments

NO.8
Global Power Battery Installed Capacity

*Data as of November 2024

ENERGY STORAGE PRODUCTS

Sunwoda Energy Storage Battery Cell

Product Model	SBP-01-2800	SBP-01-3140
Cell Type	LFP	LFP
Nominal Capacity	280Ah	314Ah
Nominal Voltage	3.2V	3.2V
Standard Charge/Discharge Rate	1P	0.5P
Cycle Life	10000	10000
Dimensions W*L*H	174.3*71.53*206.8mm	174.3*71.53*206.8mm
Weight	5.4kg	5.6kg

Energy Storage Pack

Product Model	1P48S	1P52S	1P104S
Cooling Method	Liquid-Cooling	Liquid-Cooling	Liquid-Cooling
Nominal Capacity	280Ah	280Ah	314Ah
Nominal Energy	43.008kWh	46.59kWh	104.49kWh
Nominal Voltage	153.6V	166.4V	332.8V
Voltage Range	120 ~ 175.2V	130 ~ 189.8V	260 ~ 379.6V
Standard Charge/Discharge Rate	0.5P	0.5P	0.5P
Dimensions W*L*H	980*876*258mm	848*1157*247.5mm	790*2150*240mm
Weight	326kg	335kg	672kg

NoahX

Liquid-Cooling Energy Storage System

Sunwoda Liquid-Cooling Energy Storage System adopts advanced liquid cooling integration technology, integrating batteries, temperature control, fire protection, distribution, lighting, on-site monitoring, etc., widely applicable in various links of the power system such as generation, transmission, distribution, and utilization, covering multiple scenarios including new energy absorption, volatility suppression, auxiliary services (peak shaving and frequency regulation), emergency backup power, etc.

Product Features

Ultimate Safety
- Multiple Fire Protection Measures
- Multi-Level Fuse Design, Progressive Protection
- Compliance with NFPA855 Safety Design Requirements
- Compartmental Arrangement, Isolation of Fire Sources, Avoidance of Thermal Runaway

Cost Reduction and Efficiency Improvement
- High Energy Density, High Integration
- Unique Flow Channel Design, Improves Battery Temperature Uniformity
- Sunwoda Special Energy Storage Battery, Ultra-Long Life, High Performance

Precise Management
- Fine Management of Temperature and Humidity
- Thermal Runaway Warning, Firefighting Interlocking
- Thermal Runaway Monitoring, Rapid Identification and Precise Positioning

Flexibility and Convenience
- Modular Design, Flexible Capacity Configuration
- High Integration, Convenient for Transportation, Installation, and Deployment
- Supports Multiple Integration Methods such as Centralized and Series-Connected

Product Model	NoahX-1500/2752-L	NoahX-1500/5015-L2
Cell Type	LFP	LFP
Cell Specifications	3.2V/280Ah	3.2V/314Ah
Grouping Method	8P384S	12P416S
Nominal Capacity	2752kWh	5015kWh
Nominal Voltage	1228.8V	1331.2V
Voltage Range	1036.8~ 1382.4V	1040 ~ 1500V
Standard Charge/Discharge Rate	0.5P	0.5P
Operating Environment Temperature	-30℃ ~ 50℃	-30℃ ~ 55℃
Operating Relative Humidity	5 ~ 95%	5 ~ 95%
Protection Level	IP55	IP55
Altitude[1]	3000m	3000m
Cooling Method	Liquid-Cooling	Liquid-Cooling
Dimensions W*L*H	6058*2438*2591mm	6058*2438*2896mm
Weight	29t	41t
Firefighting Method	Aerosol/Water Firefighting (Optional)	
System Communication Interface	Dry Contacts/CAN/Ethernet	
Certification[2]	IEC61000, IEC62619, IEC62477, UL1973, UL9540A, UN38.3, NFPA68&69, NFPA855, AS3000	

[1] Deductions are required for altitudes over 2000m.
[2] Detail certification will be further clarified according to regional requirements.

NoahX

Outdoor Energy Storage Battery Cabinet

Sunwoda Liquid-Cooling Outdoor Energy Storage Battery Cabinet is a highly integrated and flexibly deployable outdoor battery cabinet that supports elastic capacity expansion and flexible pairing with PCS, accommodating different rates and capacities for energy storage applications. This product can be applied in various scenarios such as distributed power stations, substations, industrial and commercial parks, smart buildings, communities, solar storage among others.

Product Features

Ultimate Safety
- Multiple Fire Protection Measures
- Multi-Level Fuse Design, Progressive Protection
- Compliance with NFPA855 Safety Design Requirements

Cost Reduction and Efficiency Improvement
- High Energy Density, High Integration
- Unique Flow Channel Design, Efficient Liquid Cooling
- Sunwoda Special Energy Storage Battery, Ultra-Long Life, High Performance

Precise Management
- Thermal Runaway Warning, Firefighting Interlocking
- Fine Temperature and Humidity Detection and Control
- Thermal Runaway Monitoring, Rapid Identification and Precise Positioning

Flexibility and Convenience
- High Compatibility, Flexible Configuration
- Short Project Construction Cycle with High Integration
- Intelligent Control and Remote Monitoring via Client-side

Product Model	NoahX-344	NoahX-417
Cell Type	LFP	LFP
Cell Specifications	3.2V/280Ah	3.2V/314Ah
Grouping Method	1P384S	1P416S
Nominal Capacity	344kWh	417.99kWh
Nominal Voltage	1228.8V	1331.2V
Voltage Range	1036.8~1382.4V	1123.2~ 1497.6V
Standard Charge/Discharge Rate	0.5P	0.5P
Maximum Charge/Discharge Rate	1P	0.5P
Operating Environment Temperature	-30℃ ~ 55℃	-30℃ ~ 55℃
Operating Relative Humidity	5 ~ 95%	5 ~ 95%
Protection Level	IP55	IP55
Altitude[1]	2000m	2000m
Cooling Method	Liquid-Cooling	Liquid-Cooling
Dimensions W*L*H	1570*1350*2380mm	1410*1410*2380mm
Weight	3.6t	3.9t
Firefighting Method	Aerosol+Water Firefighting	
System Communication Interface	CAN/RS485/Ethernet	
Certification[2]	IEC62619, IEC62477, UL1973, UL9540A, UN38.3, NFPA68&69, NFPA 855	

[1] Deductions are required for altitudes over 2000m.
[2] Detail certification will be further clarified according to regional requirements.

Utility Energy Storage Project Cases

Sweden, Europe / **46MW/46MWh**
Fast Frequency Regulation & Arbitrage

NSW, Australia / **6MW/11MWh**
Energy Storage DC Coupling

Jinta Photovoltaic Energy Storage System Project, Gansu Province / **60MW/120MWh**

Qingyuan Agriculture-Photovoltaic Complementary Energy Storage Project, Guangdong Province / **65MW/65MWh**

Datong Photovoltaic Energy Storage System Project, Shanxi Province / **30MW/30MWh**

Neihuang Wind Utility Energy Storage System Project, Henan Province / **30MW/60MWh**

Shuozhou Peak Shifting and Frequency Regulation Demonstration Project, Shanxi Province / **10MW/10MWh**

Xinhe Agriculture-Photovoltaic Complementary Utility Generation Project, Hebei Province / **12MW/24MWh**

Commercial and Industrial Storage Project Cases

Huizhou Industrial Park, Guangdong Province / **0.6MW/1.29MWh**

Antarctic Scientific Expedition Station Microgrid Project / **100kW/160kWh**