

Energy Storage Solutions

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Manage energy intelligently and effectively

Sunwoda Energy Solution Co., Ltd.

SUNUODA ENERGY

Sunwoda Energy

Sunwoda Energy Solution Company Limited is a 100% subsidiary of Sunwoda Electronic Company Limited. Founded in 1997 in Shenzhen and listed in stock since 2011 (Code: SZ 300207), Sunwoda is one of the largest lithium battery manufacturer in the world. Passionate in the battery industry, we are fast growing with 34% year-on-year growth rate, attributed to over 20, 000 employees, businesses expanded to Electric Vehicle Battery, Energy Solution, Connected Device, Automation and Battery Laboratory, covering all around the world.

A Large Scale ESS Batteries & Solutions Provider

In 2014, carrying the mission of driving to a sustainable future, we started our activity in the renewable energy industry. From one single cell to large scale battery pack clusters, we offer standard and custom solutions to meet energy demands in: Utility Grid, Commercial & Industrial Facilities, Resident/-Household, Communities and Data Centers.

Over 20 years' expertise and experience in battery system engineering and manufacturing, we are your strong partner and dedicated to provide tailor-made, cost-efficient and reliable energy solution for your project!



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Integrated Energy

Utility Scale Storage Solution

The solution in utility scale storage is mainly divided into three types: ancillary service, transmission and distribution facility service and behind-the-meter energy management.

Ancillary services: frequency regulation, peak shifting, backup, voltage support, black start, smoothing of renewable energy generation, reserve, response;

Transmission and distribution demand: deferral of transmission and distribution facilities upgrade, ease congestion and voltage stability;

Energy management: improve power quality, power supply reliability, energy arbitrage, and behind-the-meter response.





Features

- Cost effective with high energy density and power density
- Modular design, short construction cycle of battery storage power station
- Stable operation with high efficiency
- Fast acting response, high adjustment accuracy
- Long calendar life and cycle life
- Multiple functions and wide environmental adaptability

Product Portfolio



Battery pack











Battery System

Energy storage system

Battery Pack

With modular design concept and characteristics of long cycle life, high specific energy, wide adaptability and low maintenance, battery pack is available in integrated application of Li-ion battery energy storage products in various scenarios.

Features

- Simple: fast, easy installation, ready to connect
- Flexible: modular design, ideal for various application scenarios
- Safe: safety-proven LFP/LTO battery cells, foolproof design for external interface
- Reliable: IEC, UN38.3 certification, smart manufacturing process with high quality of conformance

Specifications

Type designation	B1F-26/7.7	B1F-51/10.2	B1F-43/11.5
Battery type	LFP	LFP	LFP
Cell capacity	100Ah	100Ah	100 Ah
Rated capacity	7.68kWh	10.24kWh	11.52kWh
Rated voltage	25.6V	51.2V	38.4V
Max. voltage	28.8V	57.6V	43.2V
Min. voltage	22.4V	44.8V	33.6V
Rated charge/discharge C rate	1C/1C	0.5C/0.5C	1C/1C
Dimensions	517*676*168mm	450*850*168mm	715*630*168mm
Weight	76kg	100kg	110kg







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Energy Rack

Features

- Modular design, flexible configuration
- Fast installation and deployment
- The product experiences the actual project

Specifications

Rated Energy	222.7kWh	143.3kWh	218.8kWh
Rated Voltage	742.4V	716.8V	729.6V
Operdting voltage range	649.6-835.2V	627.2-806.4V	638.4-820.8V
Rated capacity	300Ah	200Ah	300Ah
Charge/discharge rate	10	0.5C	10
Dimensions	2271*2465*700mm	1580*2461*950mm	2246*2465*800mm
Weight	2500kg	1730kg	2370kg



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Battery System

The capacity of a single high-energy density LFP battery system in 40ft container is 2.3 MWh. On the basis of ensuring internal heat diffusivity and reducing temperature difference, this product adopts the advanced air cooling technology to improve the utilization of ancillary equipment, reduce the cost of energy storage system and the footprint on site.

Features

- Long-life battery
- Various application scenarios
- All-in-one design, rapid installation and deployment
- Multilevel protection strategy, safe and reliable operation

Specifications

Type designation	EESS-E-665/2390-CN	EESS-E-730/3500-CN	EESS-E-717/4000-CN			
Rated Energy	2.39MWh	3.50MWh	4.0MWh			
Rated Voltage	665.6V	729.6V	716.8V			
Operdting voltage range	582.4-748.8V	638.4-820.8V	627.2-806.4V			
Operating ambient temperature range		-20~45°C				
Allowable relative humidity range		5~95%non-condensing				
Altitude		≤2000m/≤5000m				
Cycle life	4000 (25°C , 1C charge/discharge, 8	4000 (25 °C , 1C charge/discharge, 80%DOD, EOL≥80%) , 6000 (25 °C , 1C charge/discharge, 60%DOD, EOL≥70%)				
Calendar life		10 years				
Rated charge/discharge C rate	≤1	≤1C ≤0.5C				
DC efficiency		94% (Max)				
Protection degree		IP54				
40 Foot high container	1	1	1			
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ENERGY

Integrated battery platform with high efficiency

Applications

Frequency regulation, peak shaving, backup power, black start, emergency power supply, reactive support, smoothing of renewable energy generation

Energy storage system

With advantages of highly integration and standardization, multiple functions, convenient transportation, short construction planning and system debugging phase, LFP battery storage system in transferable container is an independent energy storage unit, including lithium-ion battery system, power conversion system, SCADA and ancillary system.



Features

- Multilevel protection strategy
- Rapid installation and deployment
- Integrated battery platform with safety and reliability
- Modular design, flexible configuration, suitable for multiple scenarios

Specifications

Power/capacity	500kW/1000KWh	1MW/1MWh	1.26MW/2.74MWh	2MW/2.21MWh		
AC rated voltage	400V	315V	315V	315V		
Rated frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz		
DC rated voltage	716.8V	716.8V	652.8V	614.4V		
Connection mode	3-phase 4-wire	3-phase 3-wire	3-phase 3-wire	3-phase 3-wire		
Isolation mode	Transformer	Transformerless	Transformerless	Transformer		
Operating ambient temperature range		-20 ~	45°C			
Allowable relative humidity range		5~95%non	-condensing			
Altitude		≤2000m				
Cycle life	4000 (25°C , 1C charge/dis	scharge, 80%DOD, EOL≥80%)	,6000 (25°C , 1C charge/discharg	ge, 60%DOD, EOL≥70%)		
Canlendar life		10 y	rears			
AC efficiency		≥88% (Max)				
Protection degree	IP54					
20 Foot high container	1	1	/	/		
40 Foot high container	/	/	1	1		



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Commercial & Industrial ESS – Outdoor Cabinet

Outdoor energy storage cabinet, with standard configuration of 30 kW/90 kWh, is composed of battery cabinet and electrical cabinet. It can apply to demand regulation and peak shifting and C&I energy storage, etc. Split design concept allows flexible installation and maintenance, modular design concept is easy to integrate and extend. The battery cabinet matches various mainstream PCS.



Features

- High charge/discharge efficiency
- Advanced thermal management system
- LiFePO4 battery compatible with reliability and energy density
- Modular design, quick delivery
- Small footprint, flexible installation, easy maintenance, expansion to MW-level system





Applications

Small-scale renewable energy power generation, user-side response, integrated energy management for C&I park

Specifications

Rated capacity	81.9kWh
Rated power	30kW
Rated voltage	380/480V
Voltage range	Un(1±5%)
Rated frequency	50/60Hz
Adjustable power factor	-0.8~0.8
Operating mode	Grid/Off-grid
Communication interfaces	RS485/Ethernet/4G
communication protocol	Modbus/IEC104/MQTT/opc UA
Protection degree	IP55
Altitude	≤2000m
Max. efficiency	86%
Allowable relative humidity range	5~95%non-condensing
Cycle life	≥4000 (25°C, 0.5C charge/discha
Operating ambient temperature range	-20~45 °C
Weight	1300kg
Dimensions	2300*1000*1200mm
Certification	UL1973/UL9540/IEC62619/UN38.3

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Global Track Record

Sunwoda Project Excellence



Sunwoda Energy offers a wide range of products and services in the field of renewable energy. Consulting, engineering, manufacturing and delivering, we manage each step to achieve client success.





