

Data Center Solution

The battery specifications can meet the 100KW-2.5MW UPS/HVDC power demand, and can be widely used in various medium and large data centers and edge data centers.

- High Efficiency
- High Safety
- Modular Design
- Easy Maintenance



SSI-480140 Series	512V140Ah	512V70Ah
Rated Power (kW)	71.68	35.84
Maximum Continuous Discharge Power (kW)	300	150
Nominal Capacity (Ah)	140	70
Nominal Energy (kWh)	71.68	
Nominal Voltage (V)	512	
Maximum Voltage (V)	576	
Minimum Voltage (V)	400	
Charging Current (A)	576	3.5-70
Standard Discharge Current (A)	140	70
Maximum Discharge Current (A)	700	350
Communication	RS485, CAN, Ethernet, DRY	
Display	LCD	
Cooling	Natural cooling	
Storage Capacity	45%±5%	
Operating Environment Temperature (°C)	0-40	
Storage Temperature (°C)	-20-60	
Altitude (m)	≤3000	
Relative Humidity	5%-95%	
Protection Level	IP20	
Dimension (mm) W*D*H	600*1000*2050 (42U) / 600*1000*2250(47U)	
Weight (kg)	1100kg	680kg
Maintenance	Front and rear maintenance/Front maintenance	
Outlet Method	Top in top out	



SSI-480100 Series	SSI-480100A1F1
Rated Power (kW)	25
Maximum Continuous Discharge Power (kW)	50
Nominal Capacity (Ah)	100
Nominal Energy (kWh)	51.2
Standard Discharge Current (A)	50
Maximum Continuous Discharge Current (A)	102
Nominal Voltage (V)	512
Maximum Voltage (V)	576
Minimum Voltage (V)	400
Charging Current (A)	5-100
Standard Discharge Current (A)	50
Maximum Discharge Current (A)	102
Communication	RS485, CAN, Ethernet, DRY
Display	LCD Display
Cooling	Natural cooling
Storage Capacity	45%±5%
Operating Environment Temperature (°C)	0-40
Relative Humidity	5%-95%
Protection Level	IP20
Dimension (mm) W*D*H	600*600*2050 (42U)
Weight (kg)	About 620kg
Maintenance	Front and rear maintenance
Outlet Method	Top in top out



SSI 480140-A6F1

- High Rate
- High Power
- High Safety
- High Reliable

SSI-480140-A6F1 Series	140Ah	70Ah	Notes
Nominal voltage (V)	512		
Max voltage (V)	576		
Min voltage (V)	432		
Nominal capacity (Ah)	140	70	@25 °C, 0.5C/1C
Nominal energy (kWh)	71.68	35.84	
Rated power (kW)	71.68	35.84	
Max sustained discharge power (kW)	386	193	@ 25 °C
Charging current (A)		7-70	
Standard discharge current (A)	140	70	
Max sustained discharge current (A)	860	430	
Communication methods	RS485, CAN, Ethernet, Dry		
Display mode	LCD		
Cooling method	Fan cooling		
Storage capacity	45%±5%		
Operating ambient temperature (°C)	0°C-40°C Rated operating conditions @20-30 °C; Other temperature power reduced		
Storage temperature (°C)	-20°C-60°C Recommended storage @15-25 °C		
Altitude (m)	3000m Reduced power over 2000 meters		
Relative humidity	5% - 95%		
Protection grade	IP20		
Size (W*D*H) mm	600*900* 2250 (47U)		
Weight (kg)	1100	680	
Maintenance	Front maintenance		
Cable outlet	Top out		



SSI 576166-A10F2

- High Rate
- High Power
- High Safety
- High Reliable

SSI-576166-A10F2 Series	166Ah	83Ah	Notes
Nominal voltage (V)	576		
Max voltage (V)	648		
Min voltage (V)	486		
Nominal capacity (Ah)	166	83	@25 °C, 0.5C/1C
Nominal energy (kWh)	95.6	47.8	
Rated power (kW)	95.6	47.8	
Max sustained discharge power (kW)	760	380	@ 25 °C
Charging current (A)		8.3-83	
Standard discharge current (A)	166	83	
Max sustained discharge current (A)	1563	782	
Communication methods	RS485, Ethernet, DRY		
Display mode	LCD		
Cooling method	Fan cooling		
Storage capacity	45%±5%		
Operating ambient temperature (°C)	0°C-40°C Rated operating conditions @20-30 °C; Other temperature power reduced		
Storage temperature (°C)	-20°C-60°C Recommended storage @15-25 °C		
Altitude (m)	3000m Reduced power over 2000 meters		
Relative humidity	5% - 95%		
Protection grade	IP20		
Size (W*D*H) mm	800*800*2250 (47U) Prefabricated delivery		
Weight (kg)	1400	900	
Maintenance	Front maintenance		
Cable outlet	Top out		

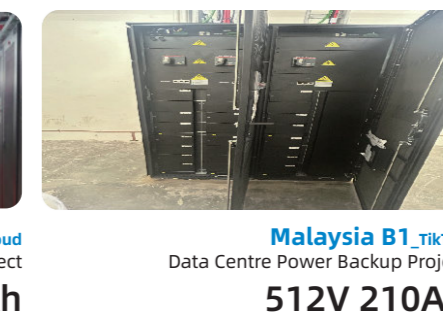
Project Cases



Philippines Project
Data Centre Power Backup Project
512V 280Ah



JohorBahru, Malaysia, AliCloud Project
Data Centre Power Backup Project
512V 350Ah



Malaysia B1, TikTok Project
Data Centre Power Backup Project
512V 210Ah



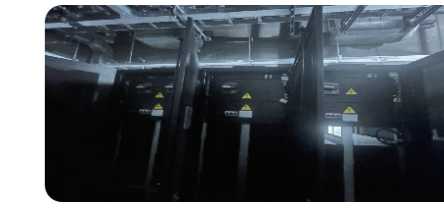
Malaysia 01, AWS Project
Data Centre Power Backup Project
512V 280Ah



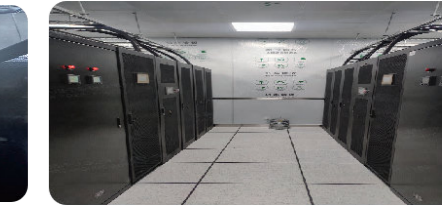
Thailand project A, TikTok Project
Data Centre Power Backup Project
512V 350Ah



Thailand Project B, TikTok Project
Data Centre Power Backup Project
512V 210Ah



Yunnan Project
Data Centre Power Backup Project
512V 420Ah



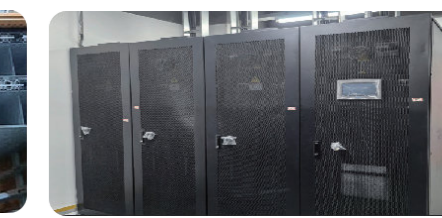
Xiong'an Project
Data Centre Power Backup Project
512V 300Ah



Jinan Project
Data Centre Power Backup Project
512V 420Ah



Hebei Project
HVDC Power Backup Project
768 Wh



Foshan Project
Data Centre Power Backup Project
512 V 280 Ah



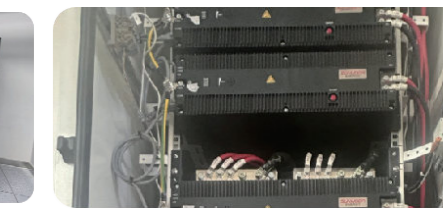
Mongolia Project
Data Centre Power Backup Project
512 V 800 Ah



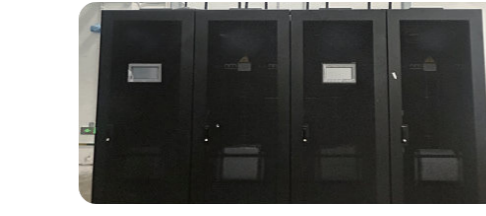
Ningbo Project
Data Centre Power Backup Project
512 V 420 Ah



Shenzhen Project
Data Centre Power Backup Project
512 V 560 Ah



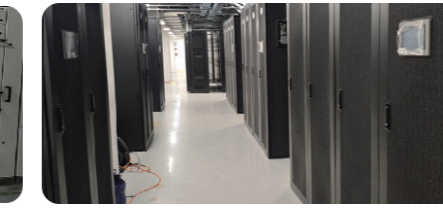
Madagascar Project
Telecom Power Backup
48V 150Ah



Brazil Scala Project
Data Centre Power Backup Project
512V 560Ah



Mexico Project
Data Centre Power Backup Project
512V 280Ah



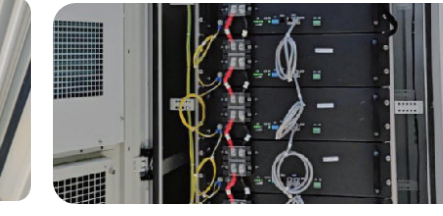
Peru Project
Data Centre Power Backup Project
512V 490Ah



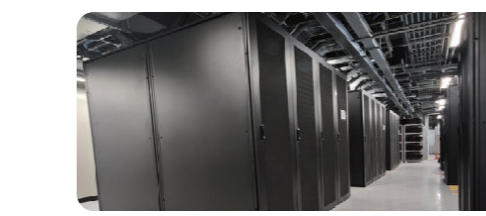
South Africa Project
Telecom Power Backup
48V 200Ah



Indonesia Project
Telecom Power Backup
48V 100Ah



Philippines Project
Telecom Power Backup
48V 100Ah



Guyana Project
Data Centre Power Backup Project
512V 140Ah



Hangzhou Project
Data Centre Power Backup Project
512V 420Ah



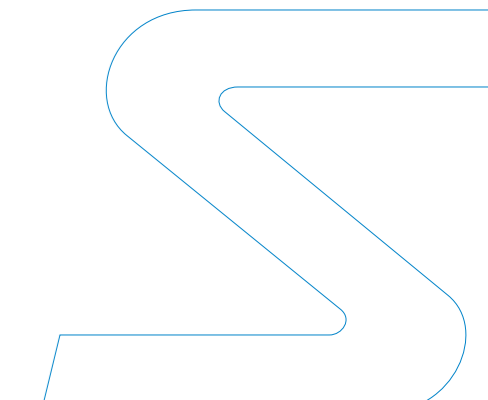
Chongqing Project
Data Centre Power Backup Project
512V 280Ah



Mauritania Project
Telecom Power Backup
48V 200Ah



Thailand Project
Telecom Power Backup
48V 100Ah





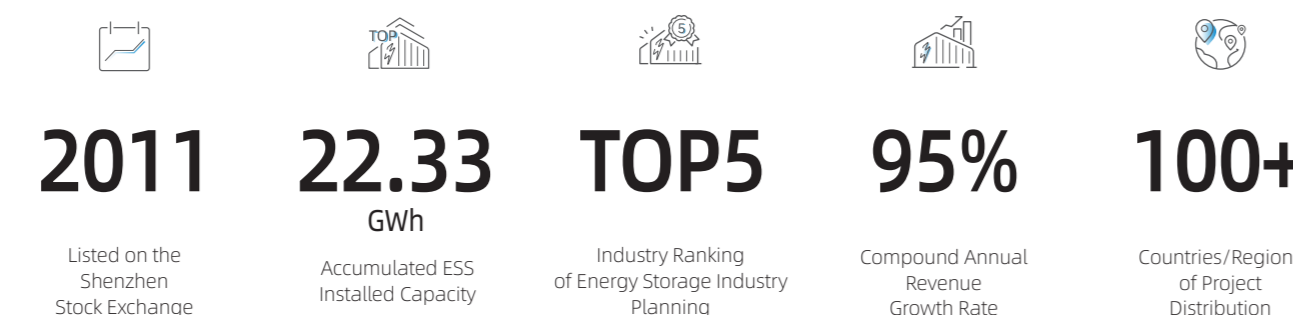
SUNWODA

Specialized in new energy industry for 29 years

Founded in 1997, Sunwoda went public on the Shenzhen Stock Exchange in 2011 and listed Global Depository Receipts on the Swiss Stock Exchange in 2022, becoming a leader in the lithium-ion battery sector.

The company operates in five segments: 3C batteries, EV batteries, energy storage systems, smart hardware, and industrial ecological innovation. Headquartered in Shenzhen, Sunwoda has production bases in China, India, Vietnam, Hungary, Morocco, and Thailand, along with branches in the U.S., France, Germany, Israel, South Korea, and Japan.

Sunwoda Energy Technology Co., Ltd., a subsidiary of Sunwoda Group, focusing on lithium battery energy storage integration and application technology, specializes in five major business areas: Utility storage, commercial and industrial storage, residential storage, network energy and smart energy. Based on customer needs and pain points in segmented markets, the company provides innovative and competitive green energy products and solutions, aiming to become a leading enterprise in energy storage products and solutions, investment and operation, channels and brand influence.



*Data as of March 2025

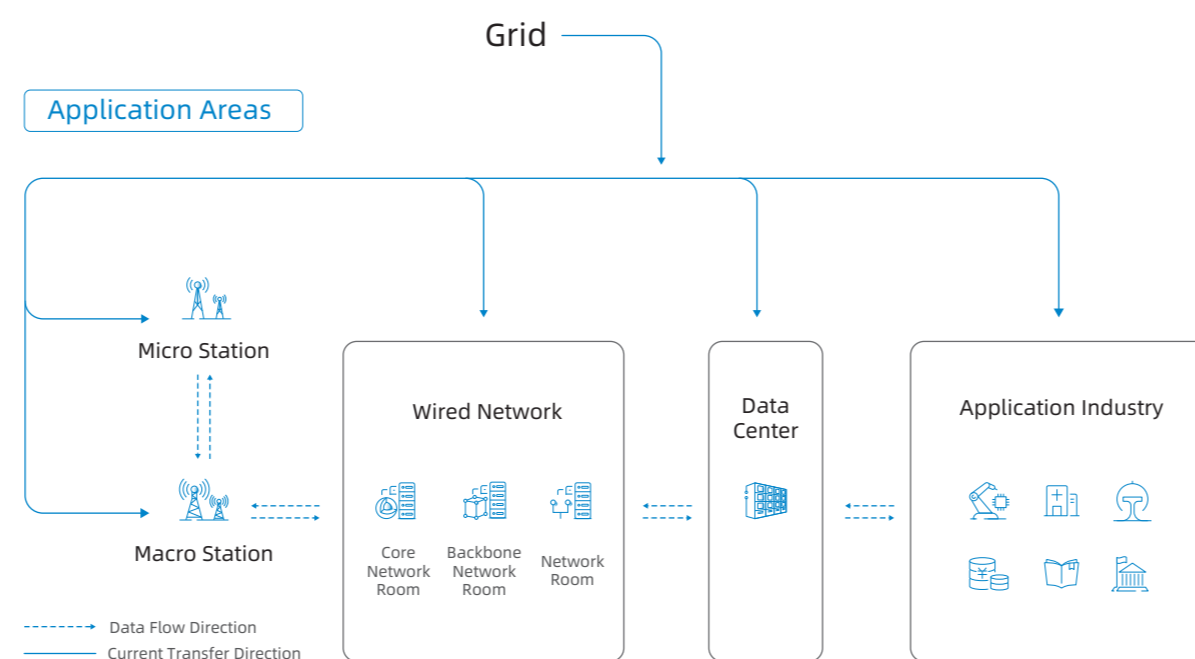


Network Energy Solution

Sunwoda Energy Technology Co., Ltd.

Network Energy Solution

Sunwoda Energy Network Energy power solution, which aims to provide Lithium-ion battery energy storage products with high energy density, high power density and high temperature resistance to improve accessibility and economy of Network Energy power application. It is characterized with modular design, parallel support and independent maintenance, can also reduce energy consumption effectively.



- Smart Manufacturing**: Fully automatic and smart manufacturing, solid experience in battery pack
- Abundant Resources of Battery Cells**: Abundant resources of battery cells, cover all needs of network energy applications
- System Integration**: Intelligent technology and application engineering in combination, highly integrated system
- Flexible Configuration**: Direct power supply and effective power bank up

Telcom Solution

The 48V battery product has a capacity covering 50Ah-200Ah, which can be widely used in various macro and micro-station scenarios.

- Extreme Safety
- Smart
- Reliable
- Efficient O&M



	ST-48100S1	ST-48150S1-03
Nominal Voltage	48V	48V
Nominal Capacity	100Ah@0.5C	150Ah@0.5C
Max Charge Current	100A(1C)	100A(0.67C)
Rated Discharge Current	50A(0.5C)	75A(0.5C)
Max Discharge Current	100A(1C)	100A(0.67C)
Discharge Cut-off Voltage	40.5V	40.5V
Charge Operating Temperature	0~60°C	0~60°C
Discharge Operating Temperature	-20~65°C	-20~65°C
Recommend Storage Temperature	15~35°C	15~35°C
Design Life	15 Years	15 Years
Humidity	5%~95%RH No Condensing	5%~95%RH No Condensing
Communication	R5485, CAN, SNMP (Optional)	R5485, CAN, SNMP (Optional)
Protection Level	IP20	IP20
Cycle Life	4000cycle@0.5C 25°C 80%DOD	4000 cycles @0.5C 25°C 80%DOD
Dimension(W*D*H)	442mm*400mm*130mm	442mm*562mm*130mm
Weight	40kg	56kg
Optional Function	Cloud Platform, SNMP, GPS, Heating Film	Cloud Platform, SNMP, GPS, Heating Film



	SMI-48100A1
Nominal Voltage	48V
Nominal Capacity	100Ah@0.5C
Max Charge Current	100(1C)
Max Charge Voltage	50(0.5C)
Nominal Discharge	100A(1C)
Max Discharge Current	40.5V
Discharge Cut-off Voltage	0~60°C
Charge Operating Temperature	-20~65°C
Discharge Operating Temperature	15~35°C
Recommend Storage Temperature	15 Years
Design Life	5%~95%RH No Condensing
Humidity	R5232, R5485
Communication	IP20
Cycle Life	4000 cycle@0.5C 25°C 80%DOD
Dimension (W*D*H)	442mm*399mm*130mm
Weight	38kg
Optional Function	SNMP, Bluetooth, GPS, LCD, Heating Film



	ST-48200S1
Nominal Voltage	48V
Nominal Capacity	200Ah@0.5C
Max Charge Current	100A(0.5C)
Rated Discharge Current	50A(0.25C)
Max Discharge Current	100A(0.5C)
Discharge Cut-off Voltage	40.5V
Charge Operating Temperature	0~60°C
Discharge Operating Temperature	-20~60°C
Recommend Storage Temperature	15~35°C
Design Life	15 Years
Humidity	5%~95%RH No Condensing
Communication	R5485, CAN, SNMP (Optional)
Protection Level	IP20
Cycle Life	6000 cycles @0.5C 25°C 80%DOD
Dimension(W*D*H)	442mm*520mm*218mm
Weight	78kg
Optional Function	Cloud Platform, SNMP, GPS, Heating Film



COMPREHENSIVE ENERGY STORAGE SOLUTION PROVIDER



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