

SUNWODA

focus on new energy industry for 27 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, focuses on lithium battery energy storage integration and application technologies. The company specializes in five major business areas: utility energy storage, C&I energy storage, residential energy storage, network energy, and smart energy. Sunwoda Energy aims to meet the specific needs of customers 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 operation capabilities, and strong channel and brand influence.

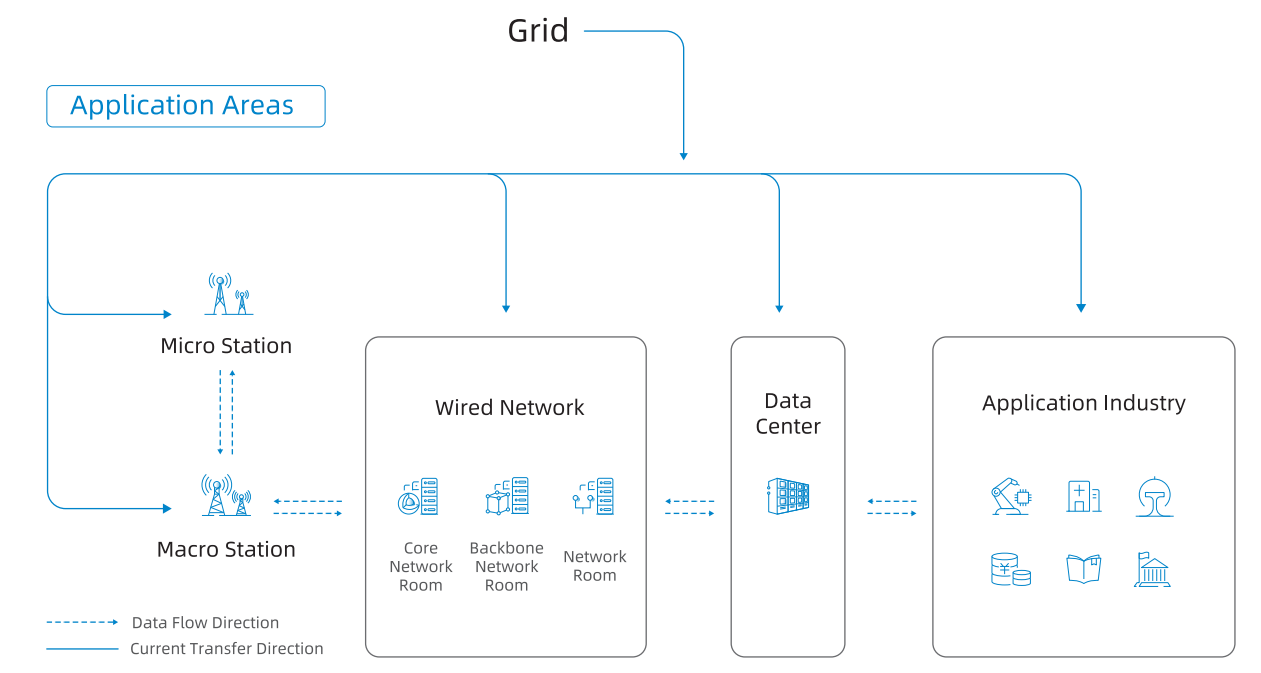


*Data as of December 2024



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

Data Center Solution

The battery specifications can meet the 1KVA-800KVA 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-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
Firefighting	Module level fire protection
System Protection	Over voltage, over current, over temperature, pack level short circuit and other protection functions
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 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)		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)	
Weight (kg)	1100kg	680kg
Maintenance	Front and rear maintenance	
Outlet Method	Top in top out	



COMPREHENSIVE ENERGY STORAGE SOLUTION PROVIDER



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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
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	0~55°C	0~55°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	RS485, CAN, SNMP (Optional)	RS485, 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	61Kg
Max Power	4800W	4800W



	SMI-48100A1F6	SMI-48100A1F11
Nominal Voltage	48V	48V
Nominal Capacity	100Ah@0.5C	100Ah @0.5C, 25°C
Max Charge Current	100(1C)	100A (1C)
Charge Cut-off Voltage	55V	55V
Rated Discharge Current	50(0.5C)	50A (0.5C)
Max Discharge Current	100(1C)	100A (1C)
Discharge Cut-off Voltage	40.5V	40.5V
Charge Operating Temperature	0~55°C	0~55°C
Discharge Operating Temperature	-20~60°C	-20~60°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	RS232, RS485	RS485, RS232, SNMP
Protection Level	IP20	IP20
Cycle Life	4000cycle@0.5C 25°C 80%DOD	4000 cycle@0.5C 25°C 80%DOD
Dimension(W*D*H)	442mm*399mm*130mm	442mm*413mm*130mm
Weight	39Kg	40kg



	SMI-48100A1F14	SMI-48200A1F1
Nominal Voltage	48V	48V
Nominal Capacity	100Ah @0.5C, 25°C	200Ah@0.5C
Max Charge Current	100A (1C)	100A(0.5C)
Max Charge Voltage	55V	55V
Nominal Discharge	50A (0.5C)	100A(0.5C)
Max Discharge Current	100A (1C)	100A(0.5C)
Discharge Cut-off Voltage	40.5V	40.5V
Charge Operating Temperature	0~55°C	0~55°C
Discharge Operating Temperature	-20~60°C	-20~60°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	RS485, SNMP	RS232, RS485
Cycle Life	4000 cycle@0.5C 25°C 80%DOD	4000 cycle@0.5C 25°C 80%DOD
Dimension (W*D*H)	442mm*409mm*129.5mm	442mm*530mm*220mm
Weight	About 40kg	78Kg



Network Energy Solution



	SMI-12100A1F1
Nominal Voltage	12.8V
Nominal Capacity	100Ah
Combination	1P4S
Max Charge Current	50A (0.5C)
Over-Charge Protection Voltage	14.6V
Max Discharge Current	100A (1C)
Over-Discharge Protection Voltage	10.8V
Recommended Charging Voltage	14-14.4V
Dimension(W*D*H)	330mm*172mm*223mm
Charge Operating Temperature	0~55°C
Discharge Operating Temperature	-20~60°C
Recommend Storage Temperature	15~35°C
Operating Humidity	10%~90%RH No Condensing
Storage Humidity	5%~95%RH No Condensing
Weight	11kg
Design Life	15 Years
Protection Level	IP65
Cooling	Natural Cooling
Power Interface	MB
Communication Interface	UART, Bluetooth
Cycle Life	2000 cycle @0.2C, 25°C, 80%DOD



	Outdoor Power Cabinet
Internal Mounting Dimensions	19-inch
Cabinet Dimension	750*750*1700mm(30U)Dimensions can customized
Protection Level	IP55
Cooling	Fan/air conditioning as optional
Color	RAL7035
Power Supply	Rectifier and insertion frames optional
Busbar	Ground busbar, output busbar optional
Light Voltage	48V
Safety	Smoke alarm, door open alarm, cabinet anti-theft lock
Operate Temperature	-40~60°C
Humidity	5~95%
Altitude	0~3000m



	SMI-48100A1F9
Nominal Voltage	51.2V
Nominal Capacity(Ah)	100Ah@0.5C
Max Charge Current	100A(1C)
Max.Charge Voltage	57.6V
Float Charge Voltage	54V
Boost Charge Voltage	56V
Nominal Discharge Current	50A(0.5C)
Max Discharge Current	100A(1C)
Discharge Cut-off Voltage	43.2V
Charge Operating Temperature	0~55°C
Discharge Operating Temperature	-20~60°C
Recommend Storage Temperature	15~35°C
Design Life	15 Years
Humidity	5%~95%RH No Condensing
Cycle Life	4000cycle@0.5C 25°C 80%DOD
Dimension(W*D*H)	442mm*470mm*132mm
Weight	45Kg
Nominal Energy	5kWh



	SMO-51100A1F1
Nominal Voltage	51.2V
Nominal Energy	5.12kWh
Usable Energy (100%DOD)	5 kWh
Charge/Discharge Cut Off Voltage	44.8V~56.4V
Roundtrip Efficiency	>98%
Rated Charge/Discharge Current	50A/50A
Max.Charge/Discharge Current	100A/100A
Charge Operating Temperature	0~55°C
Discharge Operating Temperature	-20~60°C
Recommend Storage Temperature	15~35°C
Design Life	15 Years
Humidity	5%~95%RH No Condensing
Protection Level	IP65
Scalability	Max. 8 in parallel, Max. 40kWh
Communication	RS485, CAN
Design Life	15 Years
Cycle Life	6000 cycle@0.5C, 25°C, 80%DOD, 70%EOL
Dimension (W*D*H)	620mm*500mm*170mm
Weight	55kg
Nominal Energy	5kWh

SUNWODA ENERGY



Network Energy Solution

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