

brings warm & bright

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SUG
— New Energy —

Home Energy Storage Product Catalog

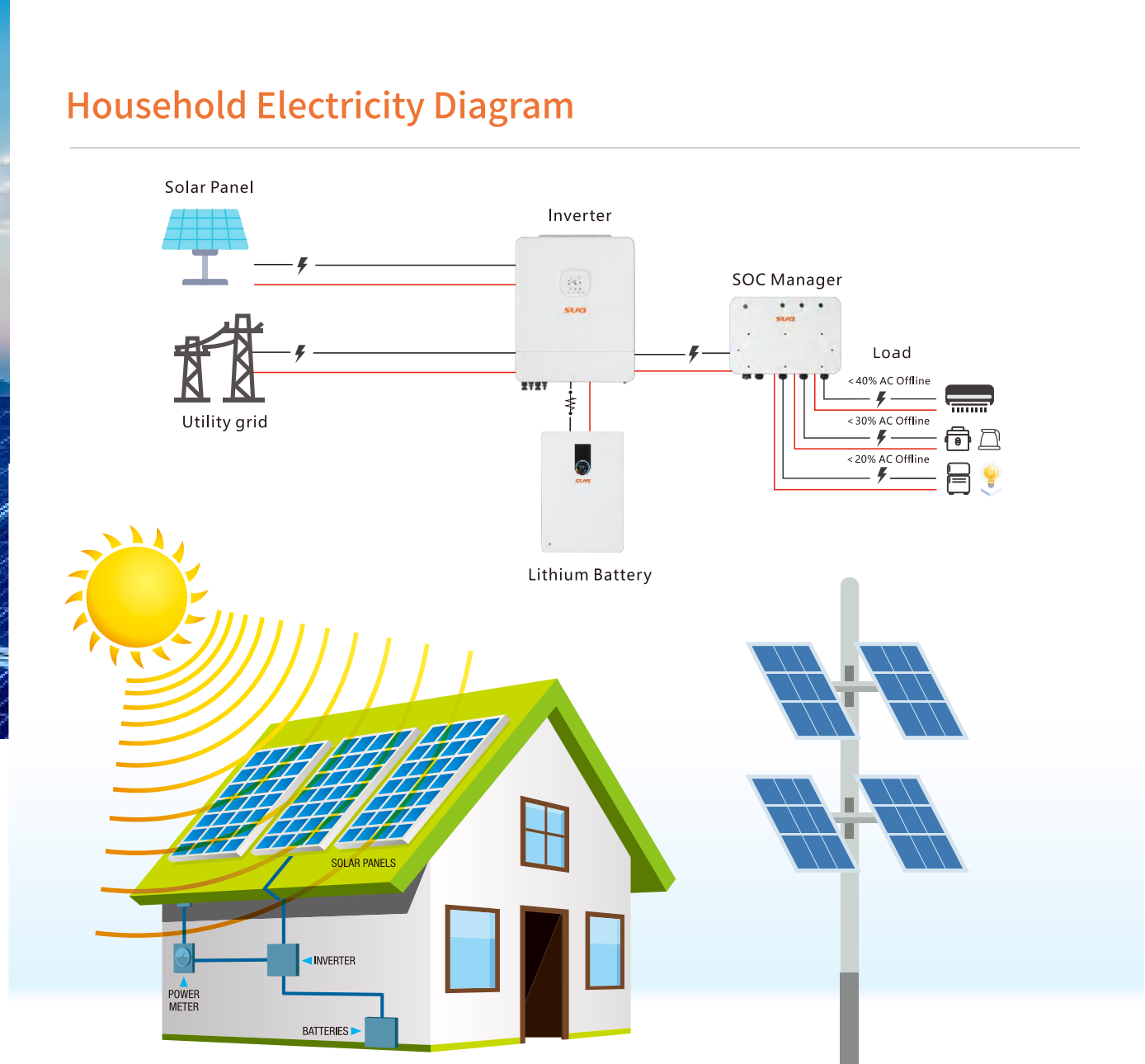


SUG NEW ENERGY CO., LTD.



Catalog Overview

- P 02 **Product Catalog**
- P 03 **Company Profile**
- P 04 **Household Electricity**
- P 05-42 **Product Introduction**
 - Off Grid Inverter
 - Lithium Battery
 - ESS All In One
 - Portable Power Station
 - SOC Manager



Solar Panel	Solar panels absorb sunlight through semiconductor materials and convert light energy directly into direct current to power batteries or electrical devices
Inverter	Converts DC power into AC power for use by the load, off grid and on grid modes, automatically switch to off-grid power supply during power outage
Lithium battery	Store energy from PV or the power grid for use at night, on rainy days or during power outages, increasing household energy self-sufficiency
SOC manager	Real-time monitoring of battery power and intelligent management of priority switches for multiple loads
Load	Various appliances used in the Home

COMPANY PROFILE

SUG New Energy Co.,Ltd was established in 2013 and has accumulated more than ten years of experience in the fields of solar energy and energy storage. We are a leading manufacturer that integrates research and development, design, and production of inverter power supplies, lithium batteries, and solar energy storage systems. We have two factories and multiple subsidiaries, mainly producing lithium batteries, inverters, energy storage systems, solar controllers, portable power station, and battery chargers. We have achieved a monthly production capacity of over 3000 lithium batteries and over 20000 inverters.

At present, the company has passed EU CE and ROHS certification, US ETL and FCC certification, Japan PSE certification, and more than 10 models of lithium batteries have obtained UN38.3 and MSDS certification. SUG is your trusted brand, and we hope to work together with you in 2025 to create a green future!

SDPO Off Grid Hybrid Inverter(EU Model)

1-11kW



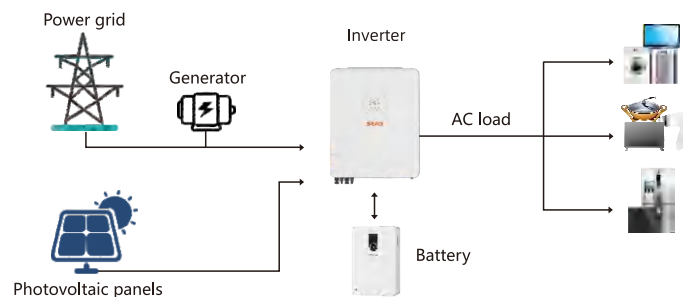
Product Introduction

The SDPO off grid hybrid inverter combines photovoltaic and mains charging and discharging, UPS bypass, and battery inversion functions. It can intelligently adjust the work priority, communicate with home lithium batteries, and can also increase output power through multiple sets of parallel machines. It can be applied in different application scenarios such as homes, RV,agriculture, and industry.

Product features

- 1 Advanced SPWM technology, pure sine wave output
- 2 Automatic activation of lithium batteries
- 3 Four charging modes including photovoltaic, mains, photovoltaic priority, and hybrid charging
- 4 Advanced MPPT technology with an efficiency of up to 99.9%
- 5 Three output modes: photovoltaic, inverter, and mains bypass

Product Connection Diagram



Product Parameters

Model	SDPO-1kW		SDPO-1.5kW	SDPO-3kW
AC/Generator input				
Rated input voltage	220/230/240VAC			
Voltage range	90-280VAC ± 3V (household appliance mode) 170-280VAC ± 3V (UPS mode)			
Frequency	50/60Hz (adaptable)			
Inverted output				
Rated power	1000W	1500W	3000W	
Output voltage	220/230/240VAC±5%			
Waveform	Pure sine wave			
Switching time (adjustable)	Computer equipment 10ms, household appliances 20ms			
Peak power	2000W	3000W	6000W	
Battery				
Battery type	Lithium ion batteries/lead-acid batteries/user-defined			
Rated battery voltage	12Vdc	24Vdc	24Vdc	
Battery voltage range	10~15.6V	20~31V	20~31V	
PV input				
PV charging method	MPPT			
PV maximum input power	600W	1200W	5000W	
Maximum PV Input Current	18A	18A	18A	
MPPT tracking range	20-150VDC	30-150VDC	60-500VDC	
Maximum PV charging current	40A	40A	100A	
Maximum AC charging current	40A	40A	60A	
Maximum total charging current	80A	80A	100A	
Basic parameters				
Communication interface	USB/RS485 (optional WiFi)/dry connector			
Parallel interface	/	/	/	
Product size (mm)	290*240*91	290*240*91	495*312*125	
Package size (mm)	340*295*145	340*295*145	565*385*195	
NW. (kg)	3.5	3.6	9.13	
GW. (kg)	4	4.2	10.35	

Product Parameters

Model	SDPO-4KW		SDPO-6.2KW	SDPO-11KW
AC/Generator input				
Rated input voltage	220/230/240VAC			
Voltage range	90-280VAC ± 3V (household appliance mode) 170-280VAC ± 3V (UPS mode)			
Frequency	50/60Hz (adaptable)			
Inverted output				
Rated power	4000W	6200W	11000W	
Output voltage	220/230/240VAC±5%			
Waveform	Pure sine wave			
Switching time (adjustable)	Computer equipment 10ms, household appliances 20ms			
Peak power	8000W	12400W	22000W	
Battery				
Battery type	Lithium ion batteries/lead-acid batteries/user-defined			
Rated battery voltage	24Vdc	48Vdc		
Battery voltage range	20~31Vdc	40~60Vdc		
PV input				
PV charging method	MPPT			
PV maximum input powe	6500W	8500W	2x7500W	
Maximum PV Input Current	27A	27A	2x27A	
MPPT tracking range	60-500VDC	60-500VDC	90-500VDC	
Maximum PV charging current	120A	120A	150A	
Maximum AC charging current	100A	100A	150A	
Maximum total charging current	120A	120A	150A	
Basic parameters				
Communication interface	USB/RS485 (optional WiFi)/dry node control			
Parallel interface		Parallel function (optional)		
Product size (mm)	495*312*125	495*312*125	570*500*148	
Package size (mm)	565*385*195	565*385*195	708*570*241	
NW. (kg)	9.13	10.83	19.27	
GW. (kg)	10.35	12.26	22.2	



SDPO-U Off Grid Hybrid Inverter(US Model)

3.6kW-6.5kW



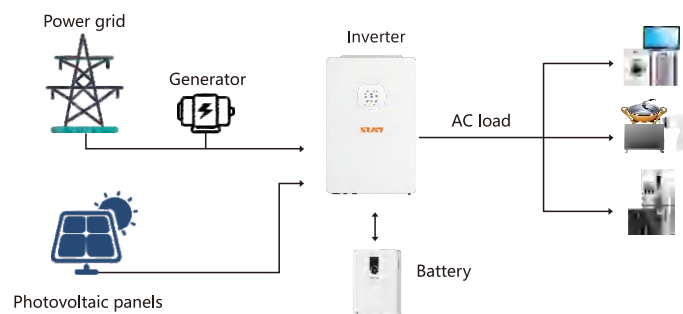
Product Introduction

The SDPO-U American standard off grid hybrid inverter combines photovoltaic and mains charging and discharging, UPS bypass, and battery inversion functions. It can intelligently adjust the work priority, communicate with home lithium batteries, and can also increase output power through multiple sets of parallel machines, which is suitable for different application scenarios in the Americas, such as homes, RV, agriculture, and industry.

Product features

- 1 Advanced SPWM technology, pure sine wave output
- 2 Automatic activation of lithium batteries
- 3 Three output modes: photovoltaic, inverter, and mains bypass
- 4 Four charging modes including photovoltaic, mains, photovoltaic priority, and hybrid charging
- 5 Advanced MPPT technology with an efficiency of up to 99.9%

Product Connection Diagram



Product Parameters

Model	SDPO-U-3.6kW		SDPO-U-5kW	SDPO-U-6.5kW
AC/Generator input				
Rated input voltage	120VAC			
Voltage range	(90Vac~140Vac)±2%			
Frequency	50Hz±0.3Hz/60Hz±0.3HZ			
Inverted output				
Rated power	3600W	5000W	6500W	
Output voltage	120Vac±5%			
Waveform	Pure sine wave			
Switching time (adjustable)	Computer equipment 10ms, household appliances 20ms			
Peak power	7200W	10000W	12000W	
Battery				
Battery type	Lithium ion batteries/lead-acid batteries/user-defined			
Rated battery voltage	48Vdc			
Battery voltage range	40~60Vdc			
PV input				
PV charging meth	MPPT			
PV maximum input power	4000W	5500W	2x4500W	
Maximum PV Input Current	22A	22A	22A	
MPPT tracking range	80-300VDC	120-450VDC	80-300VDC	
Maximum PV charging current	80A	100A	150A	
Maximum AC charging current	40A	60A	120A	
Maximum total charging current	80A	100A	150A	
Basic parameters				
Communication interface	USB/RS485 (optional WiFi)/dry connector			
Parallel interface	/	Maximum of 6 parallel machines (optional)		
Product size (mm)	410*280*100	426*322*126	540*350*120	
Product size (mm)	470*360*188	502*414*209	600*630*200	
NW. (kg)	7.8	10.5	15	
GW. (kg)	9.3	13.4	18	

SDPO-IP Off Grid Hybrid Inverter(Split)

7.2kW/10kW/12kW



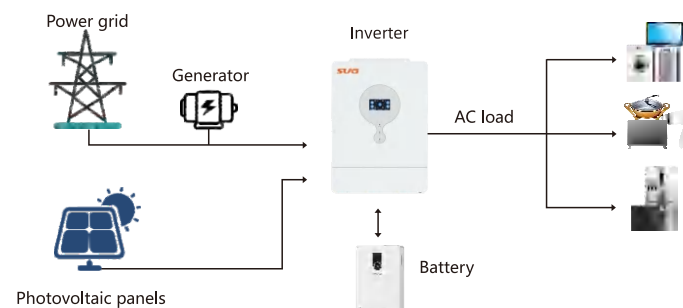
Product Introduction

The SDPO-IP Split phase standard off grid hybrid inverter combines photovoltaic and mains charging and discharging, UPS bypass, and battery inversion functions. It can intelligently adjust the work priority, communicate with home lithium batteries, and can also increase output power through multiple sets of parallel machines. It can output split phase 120V/240V voltage, which is suitable for different application scenarios in the Americas, such as homes, RV, agriculture, and industry.

Product features

- 1 Advanced SPWM technology, pure sine wave output
- 2 Automatic activation of lithium batteries
- 3 Three output modes: photovoltaic, inverter, and mains bypass
- 4 Four charging modes including photovoltaic, mains, photovoltaic priority, and hybrid charging
- 5 Advanced MPPT technology with an efficiency of up to 99.9%

Product Connection Diagram

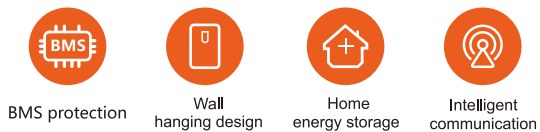


Product Parameters

Model	SDPO-IP-7.2kW Split		SDPO-IP-10kW Split	SDPO-IP-12kW Split
AC/Generator input				
Rated input voltage	120Vac(L1/N, L2/N)/240Vac(L1/L2)			
Voltage range	(85Vac~140Vac)±2%			
Frequency	50Hz/60Hz (Auto detection)			
Inverted output				
Rated power	Split phase 72000W; single phase 6000W (limited by the wiring terminals)	Split phase 10000W; single phase 7200W (limited by the wiring terminals)	Split phase 12000W; single phase 7200W (limited by the wiring terminals)	
Output voltage	120Vac(L1/N, L2/N)/240Vac(L1/L2)			
Waveform	Pure sine wave			
Switching time (adjustable)	10ms (typical)			
Peak power	Split phase 10800W; Single phase 10800W	Split phase 15000W; Single phase 15000W	Split phase 18000W; Single phase 18000W	
Battery				
Battery type	Lithium ion batteries/lead-acid batteries			
Rated battery voltage	51.2V (Minimum starting voltage 44V)			
Battery voltage range	40~58.6Vdc			
PV input				
PV charging meth	MPPT			
PV maximum input power	4500W+4500W	5500W+5500W	6000W+6000W	
Maximum PV Input Current	16A+16A	22A+22A		
MPPT tracking range	90-450VDC			
Maximum PV charging current(can be set)	150A	200A	220A	
Maximum AC charging current	120A	120A	160A	
Maximum total charging current	150A	200A	220A	
Basic parameters				
Communication interface	USB/RS485(/WiFi/GPRS)/ Dry node control			
Parallel interface	Maximum of 6 parallel machines (optional)			
Product size (mm)	580*359*127	620*450*132	620*450*132	
Product size (mm)	696*483*214	768*564*234	768*564*234	
NW. (kg)	15.9	24.3	24.3	
GW. (kg)	18.9	27.45	27.45	

SPW Power Wall Lithium Energy Storage Battery

48V/51.2V 100Ah/200Ah/300Ah



Product Introduction

The SPW Power Wall lithium energy storage battery, uses high cycle lithium iron phosphate cells, which are more convenient and aesthetically pleasing to install. The high-performance BMS protection and management battery system has a wider range of use and longer lifespan than traditional batteries. Using SUG's exclusive color screen design, you can check the battery's operation status quickly and conveniently.

Product features

- ① Grade A LiFePO4 cell
- ② Parallel support for 15PCS
- ③ Compatible with multiple inverter brands
- ④ 6000 cycles @ DOD80%
- ⑤ Bluetooth/WIFI optional
- ⑥ BMS 100A/150A/200A optional
- ⑦ LCD color display screen

Application Area

- ✂ Energy storage system, control system, alarm system, power system, database
- ✂ Emergency lighting system, emergency power supply, UPS
- ✂ Telecommunications, communication, and fire protection

Product Parameters

Model	SPW-48100	SPW-48200	SPW-48300	SPW-51.2100	SPW-51.2200	SPW-51.2300
Standard voltage	48V	48V	48V	51.2V	51.2V	51.2V
Standard capacity	100Ah	200Ah	300Ah	100Ah	200Ah	300Ah
Rated capacity	4.8kWh	9.6kWh	14.4kWh	5.12kWh	10.24kWh	15.36kWh
Working voltage	40.5-54V			43.2-57.6V		
Standard charging current	50A	100A	150A	50A	100A	150A
Standard discharging current	100A	100A	200A	100A	100A	200A
Suggested DOD	80%					
Cycle life	>6000 cycles					
IP Rating	IP21(IP65 optional)					
Discharge operating temperature	-20°C-60°C					
Charging operating temperature	0°C-45°C					
Maximum parallel	15PCS					
Communication	RS232/CAN/RS485 (WIFI/BT optional)					
Display	LCD color screen/LCD touch screen (optional)					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	47.2	87	115	48	91	117
GW.(kg)	51.4	105	133	57	117	138
Product size (mm)	630*405*160	820*555*200	790*530*268	630*405*160	820*555*200	790*530*268
Package size (mm)	705*540*300	870*610*410	850*590*300	550*730*315	920*655*415	920*655*415

SPV Vertical LFP Energy Storage Battery

51.2V-280Ah/314Ah
560Ah/628Ah



BMS protection



Pulley design



Home energy storage



Intelligent communication



Product Introduction

The SPV vertical energy storage lithium battery, a long-lived lithium iron phosphate battery, vertical energy storage battery can move freely and conveniently, high-performance BMS protection and management battery system, with a wider range of use and longer lifespan than traditional batteries.

Product features

- ① Grade A LiFePO4 cell
- ② Parallel support for 15PCS
- ③ Compatible with multiple inverter brands
- ④ 6000 cycles @ DOD80%
- ⑤ Bluetooth/WIFI optional
- ⑥ LCD color screen/LCD touch screen (optional)
- ⑦ BMS 200A

Application Area

- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

Product Parameters

Model	SPV-51.2280	SPV-51.2314	SPV-51.2560	SPV-51.2628
Standard voltage	51.2V	51.2V	51.2V	51.2V
Standard capacity	280Ah	314Ah	560Ah	628Ah
Rated capacity	14.33kWh	16.07kWh	28.67kWh	32.15kWh
Working voltage	43.2-57.6V			
Standard charging current	200A			
Standard discharging current	200A			
Suggested DOD	80%			
Cycle life	>6000 cycles			
IP Rating	IP21(IP65 optional)			
Discharge operating temperature	-20°C-50°C			
Charging operating temperature	0°C-45°C			
Maximum parallel	15PCS			
Communication	RS232/CAN/RS485 (WIFI/BT optional)			
Display	LCD color screen/LCD touch screen (optional)			
Warranty	5 Years			
Certificate	UN38.3/MSDS/CE/ROHS/FCC			
NW. (kg)	122	128	227	243
GW.(kg)	139	147	284	300
Product size (mm)	550*270*860	550*270*860	530*530*790	530*530*790
Package size(mm)	880*633*422	880*633*422	1210*885*470	1210*885*470

SBM-I Low Voltage Stacked Lithium Energy Storage Battery

Inverter output: 5.5kW/10kW

Number of battery modules: 51.2V 100Ah



BMS protection



Stacked design



Home energy storage



Intelligent communication



(Ultra thin version)



(Regular style)

Product Introduction

The SBM-I Stacked lithium-ion energy storage system uses high cycle lithium iron phosphate cells, and a high-performance BMS protection and management battery system. A single group can be stacked up to 7 layers (including the inverter layer), and multiple groups can be combined into up to 15 battery modules in parallel. The capacity can be freely combined, and when paired with a 5.5KW-10KW off grid photovoltaic inverter system, it can meet various electricity needs of households and industries.

Product features

- ① Grade A LiFePO4 cell
- ② Bluetooth and WIFI/touch LCD screen optional
- ③ 100A BMS for charging/discharging
- ④ 6000 cycles @ DOD80%
- ⑤ LCD display screen
- ⑥ Parallel support for 15PCS

Application Area

- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

Battery parameters

Model	SBM-I-51.2100	SBM-I-51.2100*2	SBM-I-51.2100*3	SBM-I-51.2100*4	SBM-I-51.2100*5	SBM-I-51.2100*6
Standard voltage	51.2V					
Single module capacity	100Ah	100Ah	100Ah	100Ah	100Ah	100Ah
Rated capacity	5.12kWh	5.12kWh*2	5.12kWh*3	5.12kWh*4	5.12kWh*5	5.12kWh*6
Working voltage	43.2-57.6V					
Standard charging current	50A	50A*2	50A*3	50A*4	50A*5	50A*6
Standard discharging current	100A	100A*2	100A*4	100A*4	100A*5	100A*6
Suggested DOD	80%					
Cycle life	>6000 cycles					
IP Rating	IP21					
Discharge operating temperature	-20°C-50°C					
Charging operating temperature	0°C-45°C					
Max parallel	15PCS					
Communication	RS232/CAN/RS485 (WIFI/BT optional)					
Display	LCD display screen					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	45.8+14.2(base)	45.8*2+14.2(base)	45.8*3+14.2(base)	45.8*4+14.2(base)	45.8*5+14.2(base)	45.8*6+14.2(base)
GW.(kg)	53.2+18.7(base)	53.2*2+18.7(base)	53.2*3+18.7(base)	53.2*4+18.7(base)	53.2*5+18.7(base)	53.2*6+18.7(base)
Product size (mm)	550*500*(178+105) 550*210*530 (Ultra thin version)	550*500*(178*2+105) 550*210*1000 (Ultra thin version)	550*500*(178*3+105) 550*210*1470 (Ultra thin version)	550*500*(178*4+105)	550*500*(178*5+105)	550*500*(178*6+105)
Package size(mm)	650*600*290 630*580*252(base) 545*510*300 (Ultra thin version)	650*600*290*2 630*580*252(base) 545*510*300*2 (Ultra thin version)	650*600*290*3 630*580*252(base) 545*510*300*3 (Ultra thin version)	650*600*290*4 630*580*252(base)	650*600*290*5 630*580*252(base)	650*600*290*6 630*580*252(base)

Inverter parameters

Rated power	5.5kW	10kW
AC input		
Voltage	230VAC	
Optional voltage range	170-280VAC (personal computer): 90-280VAC (household appliances)	
Frequency range	50Hz/60Hz (adaptive)	
AC output		
Rated voltage	230VAC±5%	
Peak power	11000VA	20000VA
Efficiency	max 93.5%	max 98%
Transfer time	10ms (personal computer) 20ms (household appliances)	
Waveform	Pure sine wave	
Battery		
Battery voltage	48VDC	
Floating charging voltage	54VDC (Settable)	
Overcharge protection	57.6VDC (Settable)	
Solar charging& AC charging		
PV maximum open circuit voltage	500VDC	
PV maximum power	5500W	11000W
MPPT range @ working voltage	120-500VDC	90-500VDC
Maximum solar charging current	100A	150A
Maximum AC charging current	60A	150A
Maximum charging current	100A	150A
Basic parameters		
Working temperature	-10°C - 50°C	
Working humidity	20% -95% relative temperature (non condensing)	
Storage temperature	-15°C - 60°C	
NW. (kg)	22.6	27
GW.(kg)	36	40
Product size (mm)	550*500*178(Regular style) 550*210*470(Ultra thin style)	550*500*245(Regular style) 550*210*470(Ultra thin style)
Package size(mm)	650*600*290	650*600*345



SBS-Rack/Cabinet Mounted Lithium Energy Storage Battery

48V/51.2V 100AH/200Ah/300Ah



BMS protection



Free combination



Home energy storage



Intelligent communication

Product Introduction

The SBS- Rack/Cabinet mounted lithium energy storage battery, uses high cycle lithium iron phosphate cells, high-performance BMS protection and management battery system, and can be combined into up to 15 battery modules in parallel. The capacity can be freely combined to meet various needs of households and industries. into up to 15 battery modules in parallel.

Product features

- ① Grade A LiFePO4 cell
- ② Parallel support for 15PCS
- ③ Compatible with multiple inverter brands
- ④ 6000 cycles @ DOD80%
- ⑤ Bluetooth/WIFI optional
- ⑥ LCD display screen (touch screen optional)
- ⑦ BMS 100A/150A/200A optional

Application Area

- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

Product Parameters

Model	SBS-48100	SBS-48200	SBS-48300	SBS-51.2100	SBS-51.2200	SBS-51.2300
Standard voltage	48V	48V	48V	51.2V	51.2V	51.2V
Standard capacity	100Ah	200Ah	300Ah	100Ah	200Ah	300Ah
Rated capacity	4.8kWh	9.6kWh	14.4kWh	5.12kWh	10.24kWh	15.36kWh
Working voltage	40.5-54V			43.2-57.6V		
Standard charging current	50A	100A	150A	50A	100A	150A
Standard discharging current	100A	100A	200A	100A	100A	200A
Suggested DOD	80%					
Cycle life	>6000 cycles					
IP Rating	IP20					
Discharge operating temperature	-20°C-50°C					
Charging operating temperature	0°C-45°C					
Maximum parallel	15PCS					
Communication	RS232/CAN/RS485 (WIFI/BT optional)					
Display	LCD display screen (touch screen optional)					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	40	75	105	44	84	110
GW.(kg)	50	90	121	52	99	129
Product size (mm)	430*482*178	790*482*178	790*480*200	430*482*178	790*482*178	790*480*200
Package size(mm)	510*530*300	870*610*410	850*540*440	510*530*300	870*610*410	850*540*440

SBM-H High Voltage Stacked Lithium Energy Storage Battery

Number of battery modules:102.4V 50Ah

- 

BMS protection
- 

Stacked design
- 

Home energy storage
- 

Intelligent communication



(Ultra thin version)

(Regular style)

Product Introduction

The SBM-H High voltages stacked lithium energy storage battery, uses high cycle lithium iron phosphate cells, a high-performance BMS protection and management battery system, and can stack up to 7 modules per group (including the BMS main control layer). Multiple groups can be freely combined to achieve 2-8 battery modules in series, meeting various needs of households and industries.

Product features

- 1 Grade A LiFePO4 cell

2 Supports up to 8 modules in series

3 High voltage BMS control system

4 6000 cycles @ DOD80%

5 Convenient to move and freely combine

Application Area

- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

Product Parameters

Model	SBM-H-10.24kWh	SBM-H-15.36kWh	SBM-H-20.48kWh	SBM-H-25.6kWh	SBM-H-30.72kWh
Standard voltage	102.4V				
Number of modules	1+2/PCS	1+3/PCS	1+4/PCS	1+5/PCS	1+6/PCS
Single module capacity	50Ah	50Ah	50Ah	50Ah	50Ah
Rated capacity	5.12kWh*2	5.12kWh*3	5.12kWh*4	5.12kWh*5	5.12kWh*6
Working voltage	172.8-230.4V	259.2-348.8V	345.6-464V	432-579.2V	518.4-694.4V
Standard charging current	25A/module				
Standard discharging current	50A/module				
Suggested DOD	80%				
Cycle life	>6000 cycles				
IP Rating	IP21				
Discharge operating temperature	-20℃-60℃				
Charging operating temperature	0℃-45℃				
Maximum series connection	8PCS				
Communication	CAN/RS485(WiFi/Bluetooth optional)				
Warranty	5 Years				
Certificate	UN38.3/MSDS/CE/ROHS/FCC				
NW. (kg)	54*2+14.2(base) 106 (Ultra thin version)	54*3+14.2(base)	54*4+14.2(base)	54*5+14.2(base)	54*6+14.2(base)
GW.(kg)	64*2+18.7(base) 124 (Ultra thin version)	64*3+18.7(base)	64*4+18.7(base)	64*5+18.7(base)	64*6+18.7(base)
Product size (mm)	550*500*(178*3+105) 550*210*1470 (Ultra thin version)	50*500*(178*4+105)	50*500*(178*5+105)	50*500*(178*6+105)	50*500*(178*7+105)
Package size(mm)	650*600*290*3 630*580*252(base) 545*510*300*3 (Ultra thin version)	650*600*290*4 630*580*252(base)	650*600*290*5 630*580*252(base)	650*600*290*6 630*580*252(base)	650*600*290*7 630*580*252(base)

SBS-H High Voltage Rack Lithium Energy Storage Battery

Number of battery modules:102.4V 100Ah



BMS protection



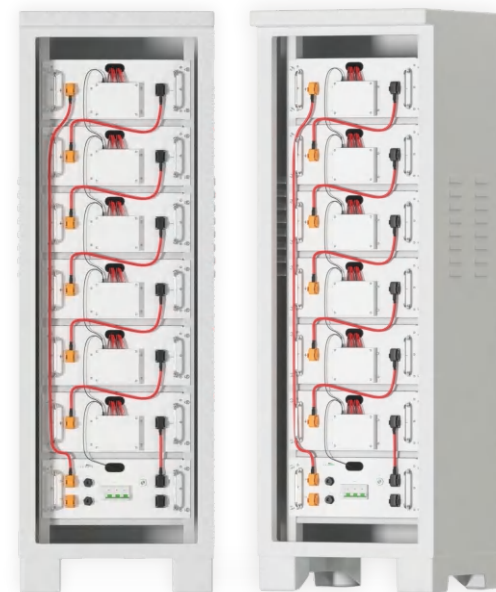
Free combination



Home energy storage



Intelligent communication



Product Introduction

The SBS-H High voltage rack lithium energy storage battery, uses high cycle lithium iron phosphate cells, a high-performance BMS protection and management battery system, and can be connected in series with multiple groups to achieve 2-8 battery modules. It has a high-strength sheet metal box protection and can be equipped with air conditioning cooling to increase safety performance and meet various needs of households and industries.

Product features

- 1 Grade A LiFePO4 cell
- 2 Supports up to 8 modules in series
- 3 6000 cycles @ DOD80%
- 4 High voltage BMS control system
- 5 Convenient to move and freely combine

Application Area

- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

Product Parameters

Model	SBS-H-20.48kWh	SBS-H-30.72kWh	SBS-H-40.96kWh	SBS-H-51.2kWh	SBS-H-61.44kWh
Standard voltage	102.4V				
Number of modules	1+2/PCS	1+3/PCS	1+4/PCS	1+5/PCS	1+6/PCS
Standard capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Rated capacity	10.24kWh*2	10.24kWh*3	10.24kWh*4	10.24kWh*5	10.24kWh*6
Working voltage	172.8-230.4V	259.2-348.8V	345.6-464V	432-579.2V	604.8-809.6V
Standard charging current	50A/module				
Standard discharging current	100A/module				
Suggested DOD	80%				
Cycle life	>6000 cycles				
IP Rating	IP20				
Discharge operating temperature	-20°C-50°C				
Charging operating temperature	0°C-45°C				
Maximum series connection	8PCS				
Communication	CAN/RS485(WiFi/Bluetooth optional)				
Warranty	5 Years				
Certificate	UN38.3/MSDS/CE/ROHS/FCC				
NW. (kg)	90*2+17(BMS)	90*3+17(BMS)	90*4+17(BMS)	90*5+17(BMS)	90*6+17(BMS)
GW.(kg)	105*2+25(BMS)	105*3+25(BMS)	105*4+25(BMS)	105*5+25(BMS)	105*6+25(BMS)
Product size (mm)	790*480*178*3	790*480*178*4	790*480*178*5	790*480*178*6	790*480*178*7
Package size(mm)	870*610*410*3	870*610*410*4	870*610*410*5	870*610*410*6	870*610*410*7

SBP Industrial & Commercial High Voltage Storage System

30kW+60kWh/50kW+100kWh/
100kW+215kWh



BMS protection



High power output



Industrial and commercial energy storage



Intelligent communication

Product function

- 1 This energy storage cabinet is 60-215kWh class system, using fan/air-conditioner/liquid cooled lithium iron phosphate battery pack.
- 2 Two-layer BMS battery management system, a comprehensive digital LCD display, you can easily view and manage on the spot.
- 3 Industrial and commercial enterprises, data centers, industrial parks, commercial buildings, large industries, mobile device energy storage, platform expansion, power quality management, etc.
- 4 This storage cabinet is equipped with a 30/50/100kW hybrid inverter, a multifunctional inverter that combines Inverter, solar charger, grid charger and lithium battery support.
- 5 The energy storage cabinet is designed in the form of outdoor cabinet, with IP54 protection grade and highly integrated design.
- 6 The cabinet is integrated with auxiliary components such as air-conditioner, liquid cooling system, lighting, power distribution, fire fighting, and environmental event disposal as optional.

Application scenario

- ※ Industrial and commercial enterprises, data centers, industrial parks
- ※ Commercial buildings, large industries, mobile device energy storage
- ※ Platform expansion, power quality management, etc

Product Parameters

Model	SBP-30000	SBP-50000	SBP-100000
AC Output Specification			
Rated AC Input/Output Active Power(W)	30000W	50000W	100000W
Peak Power(off grid)	1.5 time of rated power, 10 S		
AC Output Rated Current(A)	45.6A	75.8A	151.6A
Max. AC Current(A)	60A	83.3A	166.6A
Output Frequency and Voltage	50/60Hz:3 L/N/PE 220/380,230/400Vac		
Grid Type	Three Phase		
Total Harmonic Distortion(THD)	< 3% (of no minal power)		
PV Input Specification			
Max. PV Input Power(W)	39000W	65000W	100000W
Max. PV Input Voltage (V)	1000V		650V
MPPT Range(V)	150-850V		260-650V
Start-up Voltage(V)	260V		
Full Load MPPT Voltage Range(V)	360-850V	450-850V	500-650V
Rated PV Input Voltage (V)	600V		
PV Input Current(A)	36+36+36	36+36+36+36	50A+50A+50A+50A
Max.PV Isc(A)	55+55+55	55+55+55+55	60A+60A+60A+60A
No. of MPP Trackers	3	4	4
No.of Strings per MPP Tracker	2		1
Battery Specification			
Spec Of Each Module	LFP 102.4V 100AH 10.24kWh	LFP 51.2V 200AH 10.24kWh	LFP 51.2V 280Ah 14.3kWh
Module Number	6	10	15
Battery System Capacity	61.44kWh	102.4kWh	215kWh
Battery Voltage Range	537.6V-691.2V	432V-576V	600V-876V
Basic Parameter			
Product size (mm)	1170*1031*1635mm	1320*1131*1873mm	1635*1200*2266mm
Package size(mm)	1280*1140*1800mm	1430*1240*2040mm	1700*1250*2356mm
NW. (kg)	900kg	1280kg	2620kg
GW.(kg)	1130kg	1530kg	2635kg
Cooling Mode	Fan cooling, Air-conditioner cooling and Liquid cooling optional		
Class Of Protection	IP54		

SBT Plastic LFP Energy Storage Battery

12.8V/25.6V
100Ah/150Ah/200Ah/300Ah/400Ah



BMS protection



Small volume/
light weight



Home
energy storage



Intelligent
communication/
Optional



Product Introduction

SBT Plastic LFP Energy Storage Battery use long working life LiFePO4 battery, and high performance BMs to protect and manage the battery system, it has wider usage and longer life than traditional battery.

Product features

- ① LiFePO4 cell class A
- ② 50A/100A/150A/200A BMS for charge/discharge
- ③ 6000 cycle times@DoD80%
- ④ IP67 design
- ⑤ BT is optional
- ⑥ With series/parallel function
- ⑦ LCD display is optional

Application Area

- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

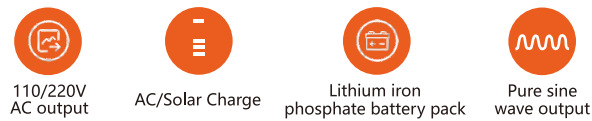
Product Parameters

Model	SBT-12.8100	SBT-12.8150	SBT-12.8200	SBT-12.8300	SBT-12.8400	SBT-25.6100	SBT-25.6200
Standard voltage	12.8V	12.8V	12.8V	12.8V	12.8V	25.6V	25.6V
Standard capacity	100Ah	150Ah	200Ah	300Ah	400Ah	100Ah	200Ah
Standard energy	1.28kWh	1.92kWh	2.56kWh	3.84kWh	5.12kWh	2.56kWh	5.12kWh
Working voltage	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V	20-29.2V	20-29.2V
Standard charging current	50A	50A	50A	100A	100A	50A	50A
Standard discharging current	100A	100A	100A	200A	200A	100A	100A
Suggested DOD	80%						
Cycle life	>6000 cycles						
IP Rating	Ip67						
Operating temperature for discharge	-20°C-60°C						
Operating temperature for charge	0°C-45°C						
Communication	BT optional						
Display	LCD display optional						
Warranty	5 years						
Certificate	UN38.3/MSDS/CE/ROHS/FCC						
NW. (kg)	10.3	15	20.1	30	38	20.6	38
GW.(kg)	15.3	20	25.1	35	43	25.6	43
Product size (mm)	330*172*216	330*172*216	345*190*245	520*267*220	520*267*220	345*190*245	520*267*220
Package size(mm)	372*217*269	372*217*269	397*232*293	567*309*272	567*309*272	397*232*293	567*309*272

SIPT Energy Storage System

Europe/US/Split phase model

5kW/6kW 5kWh



Product Introduction

SIPT energy storage system is one of a series of industrial energy storage products designed and developed independently. Long cycle life, high safety standard BMS software protection, sturdy shell, beautiful appearance, easy installation and use, etc. Widely used in various energy storage systems.

Product features

- 1 The module is non-toxic, non-polluting and environmentally friendly.
- 2 Cathode material is made from LiFePO₄ with safety performance and long cycle life.
- 3 Battery management system (BMS) has protection functions including over- discharge, over-charge, over-current and high/low temperature.
- 4 The system can automatically manage charge and discharge state and balance voltage of each cell.
- 5 Adopted self-cooling mode rapidly reduced system entire noise.
- 6 The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.
- 7 Multi-functional LED intelligent digital screen display

Product Parameters

Model	SIPT-U 5kW 5kWh	SIPT-I 6kW 5kWh	SIPT-E 5kW 5kWh
Battery parameters			
Module model	51.2V100Ah	51.2V100Ah	51.2V100Ah
Battery type	Lifepo4	Lifepo4	Lifepo4
Nominal capacity	5.12kWh	5.12kWh	5.12kWh
Nominal voltage	51.2V	51.2V	51.2V
Working voltage	43.2-58.4V	43.2-58.4V	43.2-58.4V
PV input			
PV array mppt voltage range	120V-500V	12-30V/30V-150V	120V-500V
Maximum solar charge Current	100A	10A/30A	100A
AC input			
Voltage	120VAC	120VAC/240VAC	220VAC
AC input current	100A	15A/10A	100A
AC output			
AC output	120V 41.6A	120V20A/120V30A/240V30A	220V 22.7A
DC output			
DC output	/	12V30A/5521x2(12V10A)	12V30A/5521x2(12V10A)
Type-c	/	PD 100Wx1/ 30Wx1	PD 100Wx1/ 30Wx1
USB	/	QC3.0	QC3.0
Overall parameters			
Communication	Rs485,WIFI,RS232	RS485,BT,RS232	RS485,WIFI,RS232
Storage temperature	-20°C~55°C	-20°C~55°C	-20°C~55°C
Working humidity	< 95%(RH)	< 95%(RH)	< 95%(RH)
Working temperature	-10°C~40°C	-10°C~40°C	-10°C~40°C
Working altitude	≤2000m	≤2000m	≤2000m
Cooling method	fan	fan	fan
Protective class	IP20	IP20	IP20
Weight	80kg	80kg	80kg
Dimension	550x285(315)x850(995)mm	550x285(315)x850(995)mm	550x285(315)x850(995)mm
Design life	10 years(25°C)	10 years(25°C)	10 years(25°C)
Cycle life	>6000(25?),80%DOD	>6000(25?),80%DOD	>6000(25?),80%DOD

SIPL Energy Storage System

Europe/US/Split phase model

6kW/10kW 16kWh



110/220V
AC output



AC/Solar Charge



Lithium iron
phosphate battery pack



Pure sine
wave output



Product Introduction

SIPL energy storage system is one of a series of industrial energy storage products designed and developed independently. Long cycle life, high safety standard BMS software protection, sturdy shell, beautiful appearance, easy installation and use, etc. Widely used in various energy storage systems.

Product features

- 1 The module is non-toxic, non-polluting and environmentally friendly.
- 2 Cathode material is made from LiFePO₄ with safety performance and long cycle life.
- 3 Battery management system (BMS) has protection functions including over- discharge, over-charge, over-current and high/low temperature.
- 4 The system can automatically manage charge and discharge state and balance voltage of each cell.
- 5 Adopted self-cooling mode rapidly reduced system entire noise.
- 6 The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.
- 7 Multi-functional LED intelligent digital screen display

Product Parameters

Model	SIPL-I 6KW 16kWh	SIPL-U 10KW 16kWh	SIPL-E 10KW 16kWh
Battery parameters			
Module model	51.2V314Ah	51.2V314Ah	51.2V314Ah
Battery type	Lifepo4	Lifepo4	Lifepo4
Nominal capacity	16kWh	16kWh	16kWh
Nominal voltage	51.2V	51.2V	51.2V
Working voltage	43.2-58.4V	43.2-58.4V	43.2-58.4V
PV input			
PV array mppt voltage range	12-30V/30V-150V	120V-500V	120V-500V
Maximum solar charge Current	10A/30A	200A	200A
AC input			
Voltage	120VAC/240VAC	120VAC	220VAC
AC input current	15A/10A	160A	160A
AC output			
AC output	120V20A/120V30A/240V30A	120V 83.3A	220V 55.4A
DC output			
DC output	12V30A/5521x2(12V10A)	/	/
Type-c	PD 100Wx1/ 30Wx1	/	/
USB	QC3.0	/	/
Overall parameters			
Communication	RS485,BT,RS232	Rs485,WIFI,RS232	RS485,WIFI,RS232
Storage temperature	-20°C~55°C	-20°C~55°C	-20°C~55°C
Working humidity	< 95%(RH)	< 95%(RH)	< 95%(RH)
Working temperature	-10°C~40°C	-10°C~40°C	-10°C~40°C
Working altitude	≤2000m	≤2000m	≤2000m
Cooling method	fan	fan	fan
Protective class	IP20	IP20	IP20
Weight	145kg	145kg	145kg
Dimension	710*550*500mm	710*550*500mm	710*550*500mm
Design life	10 years(25°C)	10 years(25°C)	10 years(25°C)
Cycle life	>6000(25°C),80%DOD	>6000(25°C),80%DOD	>6000(25°C),80%DOD

SIPS Portable Power Station

300W-3000W



110/220V
AC output



Emergency lighting



Lithium iron
phosphate battery pack



Pure sine
wave output



(500W)



(1500W)

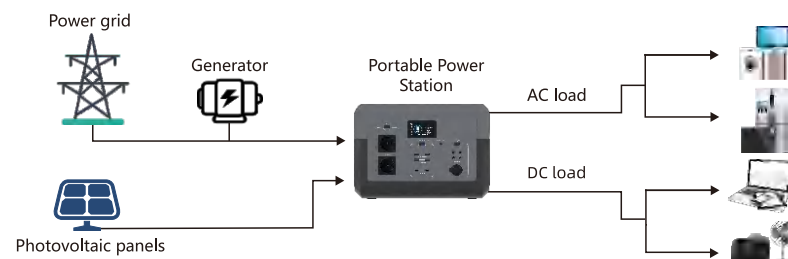
Product Introduction

SIPS portable energy storage power station has a built-in inverter, which can output sine wave AC power similar to household electricity, and can provide emergency power for electrical appliances. It has multiple DC voltage outputs (5V/9V/12V/15V/20V) that are compatible with different ports such as USB, TYPE-C, DC5521, cigarette lighter, etc. It is also equipped with LED lighting, which can display the real-time status and output power of the battery through the display screen.

Product features

- 110V/220Vac output customizable
- 3000 cycles of A-grade LiFePO4 cell
- Pure sine wave output
- Multi level emergency lighting
- Solar/mains charging
- Lithium iron phosphate battery pack
- USB/TYPE-C/DC5521/Cigar lighter DC output

Product Connection Diagram



Product parameters

Model	SIPS-300	SIPS-500	SIPS-600	SIPS-1500	SIPS-2400	SIPS-3000
Rated power	300W	500W	600W	1500W	2400W	3000W
Peak power	600W	1000W	1200W	3000W	4800W	6000W
Rated capacity	256Wh/320Wh Optional	480Wh	560Wh	1280Wh	2560Wh	2560Wh
Battery pack parameters	25Ah,12.8V	25Ah/19.2V	25Ah,22.4V	25Ah,51.2V	50Ah,51.2V	50Ah,51.2V
Battery brand and type	Grade A LiFePO4 Battery(3000 Cycles)					
Communication output	100V, 110V, 120V, 220V, or 230V ± 5% (voltage adjustable)					
Output waveform	Pure Sine Wave					
USB output	2 * USB A output:QC18W	2 * USB A output:QC18W	2 * USB A output:QC18W	USB-A1+USB-A2 output: QC18W USB-A3+USB-A4 output: OC18W		
Type-C1 output	PD30W	PD24W	PD30W	PD100W		
Type-C2 output	PD60W	PD100W	PD100W	PD100W		
Cigarette lighter/2 * DC5521 output	12V/10A	12V/10A	12V/10A	/	/	/
Cigarette lighter/4 * DC5521 output	/	/	/	12V/10A	12V/10A	12V/10A
Solar panel/DC5521 charging	10.8V-23V,3A (Maximum60W)	10.8V-23V,5A (Maximum100W)	12-60V,12A (Maximum240W)	10-60V,13A (Maximum440W)	10-60V,13A (Maximum440W)	10-60V,13A (Maximum440W)
AC charging	60W(Charging with adapter)	100W(Charging with adapter)	(Maximum500W)	90-246V (Maximum1200W)	90-264V (US/Japanese: maximum 1600W; Chinese/European: maximum 2000W)	
Charging temperature	0-40°C(32-104°F)					
Discharge temperature	-10-45°C(14-113°F)					
Product size (mm)	240*185*138	254*200*182	254*200*182	374*265*263	374*265*349	403*300*435
Package size (mm)	560*448*240	510*310*300	510*310*300	472*368*355	470*360*440	546*446*640
NW./PCS (kg)	3.9	6.5	6.5	18	26	45
GW. /Ctn (kg)	21 (4 sets per box)	16.5 (2 sets per box)	16.5 (2 sets per box)	20 (1 sets per box)	29 (1 sets per box)	60 (1 sets per box)
Describe	Grade A LiFePO4 Battery			UPS/Bidirectional inverter/With WIFI and Bluetooth/ Voltage adjustable/Grade A LiFePO4 Battery		
Packaging method	Carton					
Warranty	1 year					

SIPI Portable Power Station

3000W

- 110/220V AC output
- Emergency lighting
- Lithium iron phosphate battery pack
- Pure sine wave output



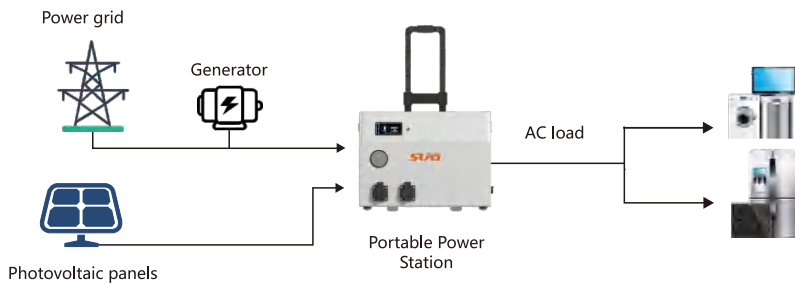
Product Introduction

SIPI portable energy storage power station has a built-in inverter, which can output sine wave AC power similar to household electricity, and can provide emergency power for electrical appliances. It also equipped with LED lighting, which can display the real-time status and output power of the battery through the display screen.

Product features

- 1 110V/220Vac output customizable
- 2 6000 cycles of A-grade LiFePO4 cell
- 3 Pure sine wave output
- 4 Multi level emergency lighting
- 5 Solar/mains charging
- 6 Lithium iron phosphate battery pack

Product Connection Diagram



Product parameters

Model	SIPI-3000W/2.5kWh
Battery Voltage	25.6V
Rated Capacity	2.56kWh
AC Output Voltage	220-240VAC(setup)/50Hz or 60HZ
AC Ouput Power	230V/10A / 230V/10A Industrial Socket
AC Input Voltage	220-240VAC(setup)/50Hz or 60Hz
AC Input Current	12A
AC Input Voltage	30-128V(optional)
AC Input Current	60A
LED lighting	3W
Working Temperature	0-50°C
Storage Temperature	-20-55°C
Environment	≤80%
IP Degree	IP20
Size (mm)	466*390*422(990)
Weight (kg)	40
Cooling way	fans cooling
Design life	10 years

SIPY All-in-One Balcony Solar Power System

Number of battery modules:51.2V 50Ah



BMS protection



Stacked design



Home energy storage



Intelligent communication



Product Introduction

SIPY All-in-One machine, which is used in Balcony solar power system. It is a micro solar power generation system integrating batteries and PV control modules comprised of a battery section and a PV control section, it forms a complete set of balcony PV energy storage system in conjunction with PV modules, micro-inverters, smart electricity meters, and the power grid. This product can efficiently store the direct current generated by solar panels in the storage battery and connect to the electrical loads and the power grid through the micro-inverter, providing people with green electric energy while effectively addressing the key technical challenges such as the usability, safety, and service life of the PV energy storage system.

Product features

- 1 Grade A LiFePO4 cell
- 2 Wi-Fi communication control
- 3 Parallel support for 5PCS
- 4 6000 cycles @ DOD80%
- 5 Convenient to move and freely combine
- 6 Power quantification

Application Area

- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

Product Parameters

Battery	
Battery type	LiFePO4
Rated voltage	51.2V(16S)
Battery capacity	2.56kWh
Cycle life	6000(25°C)
Discharge depth	90%
Maximum charging current	60A
DC input (PV input)	
Maximum input power	800Wx2 max
Mppt voltage range	18V-60V
Start-up voltage	12V
Operating voltage range	12V-60V
Input conversion efficiency)	98% Max
Maximum input voltage	60V
Maximum input current per channel	25A
Maximum input short-circuit protection current (transient) per channel	90A
Number of MPPT tracking	2
MPPT tracking efficiency	99%
DC output (INV output)	
Maximum output power	800Wx2 Max
Output conversion efficiency	98% Max
Operating voltage range	18V-55V
Maximum output voltage	55V
Maximum output current per channel	28
Maximum input short-circuit protection current (transient) per channel	90A
General parameters	
Product dimensions	Control module (with battery): 420 * 280 * 305.5mm Battery: 420 * 280 * 204mm Base: 420 * 280 * 32.5mm
Packaging dimensions	520mmx270mmx310mm
Net weight	≈20kg
Maximum number of external parallel slave battery packs	5 PCS
Capacity of a single slave battery pack	2.56kWh
Charging operating temperature	0°C-55°C
Discharging operating temperature	-20°C-60°C
Protection grade	Ip65
Communication mode	WIFI
Heat dissipation mode	natural cooling

SPM SOC Power Manager

- 

Overload protection
- 

Bluetooth optional
- 

IP65 waterproof



Product Introduction

SPM SOC power manager is a device to manage the output load of inverter through several different routes, the power manager works with SUG' lithium battery, it can on/off the certain routes of AC output basing on specific SOC of the lithium battery.

Product Parameters

Item	Route1		Route2	Route3
AC input				
Max input power	10kW			
Frequency	50/60Hz			
Input voltage	220VAC+10%			
AC Output				
Max power in total	10kW			
Disconnect SOC (default value)	40%		20%	10%
Reconnect SOC default value	60%		40%	30%
Settable SOC range	0%-99% settable			
Output voltage	220VAC±3%			
Others				
Protection	Overload, low voltage			
Communication	CAN			
Other optional	Bluetooth/Wifi(TBD)			

