

brings warm & bright



INVERTER | LITHIUM BATTERY ALBUM



SUG NEW ENERGY CO., LTD.

Tel / +86-577-62967312

Fax / +86-577-62967312

E-mail / info@sugpower.com

Website / www.sugpower.com

Add / 281#, ZhongXin avenue, Industrial Zone Yueqing, Zhejiang, China

SUG NEW ENERGY CO., LTD.



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 2024 to create a green future!

Product Directory

01

Energy Storage Lithium Battery

SPW-A/B Power Wall	05-08
SPV-Vertical	09-10
SBM-I Stacked	11-14
SBS-I Rack	15-16
SBM-H High Voltage Stacked	17-18
SBS-H High Voltage Rack	19-20

02

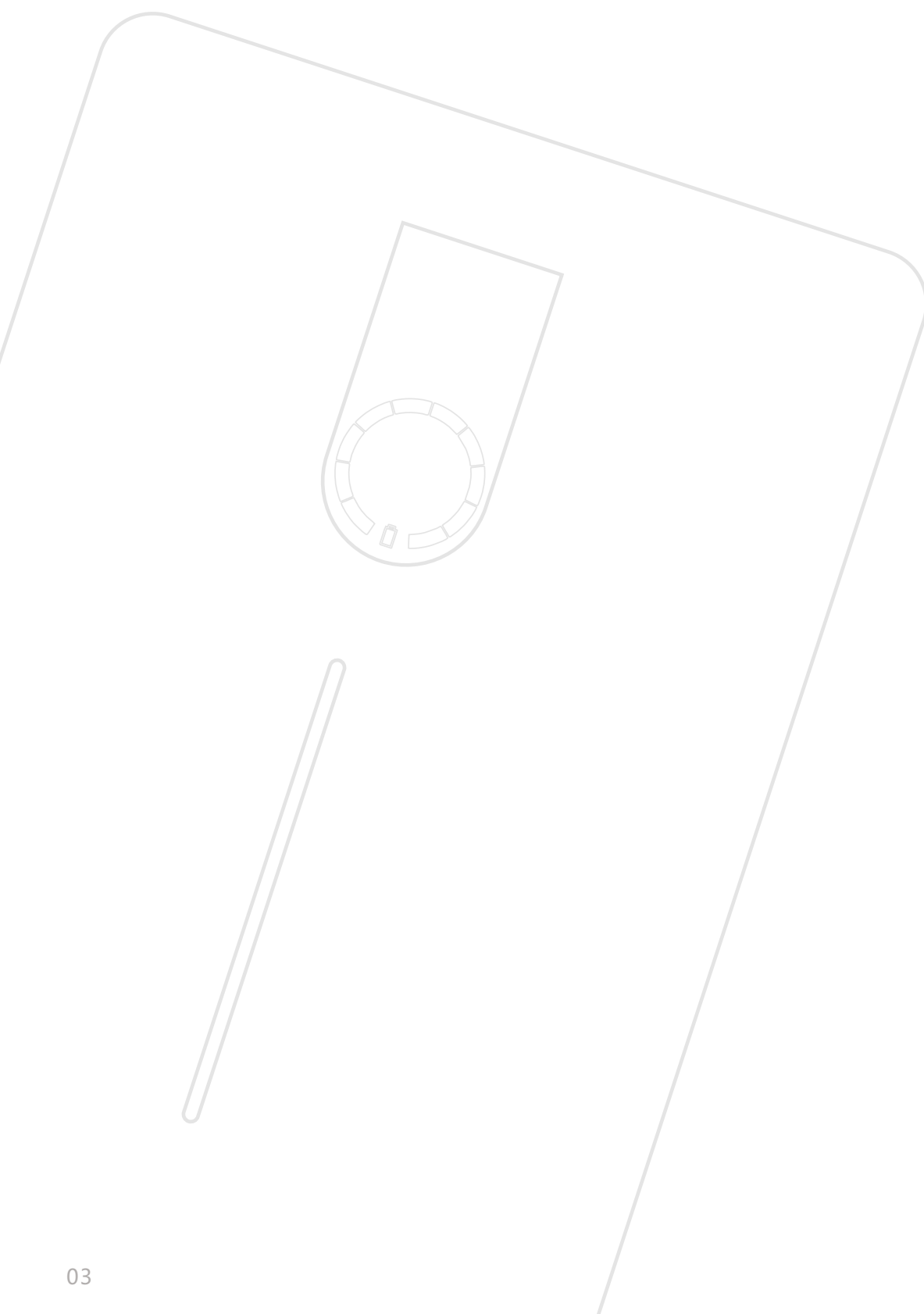
Photovoltaic Power Inverter

SDPO-(EU Model) Off Grid Hybrid	23-26
SDPO-(US Model) Off Grid Hybrid	27-28
SGPE-Pure Sine Wave	29-32
SGPC-With Charger	33-34
SGPI-Double Voltage	35-36
SGPF-Pure Sine Wave	37-38
SGM-Modified Sine Wave	39-40

03

Portable Power Station/Controller

SIPS-Portable Power Station	43-44
SSM-Solar Charge Controller	45-46



01

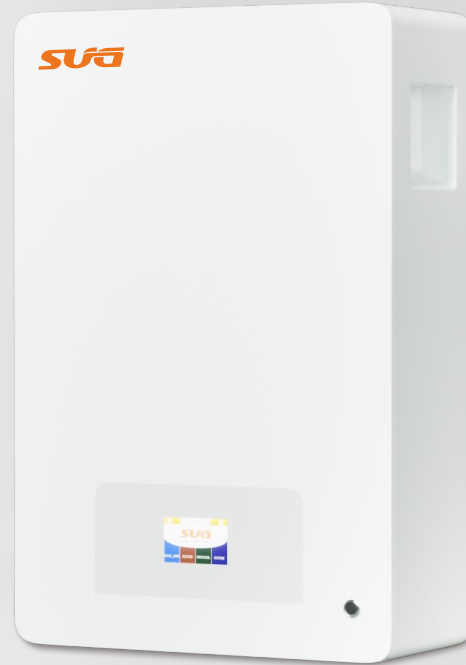
LITHIUM BATTERY

Energy Storage Lithium Battery

Provide users with a one-stop photovoltaic energy storage solution

SPW-A Power Wall Lithium Energy Storage Battery

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



BMS protection



Wall hanging design



Home energy storage



Intelligent communication

Product Introduction

The SPW-A 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 a touch screen design, it is quick and convenient to view battery operation data and modify communication protocols with different inverters.

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 touch screen

Application Area

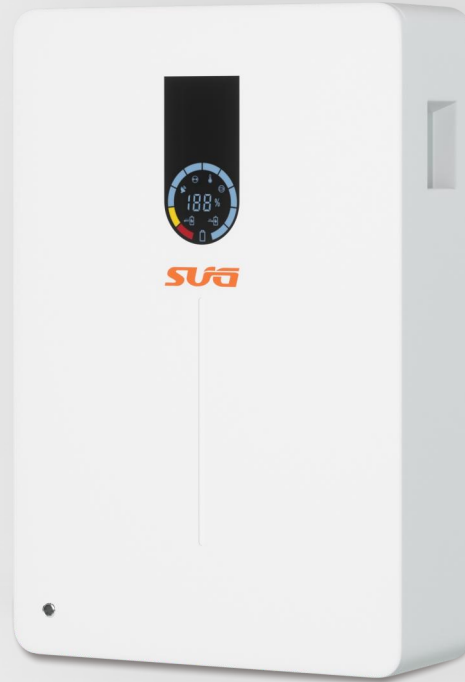
- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

Product Parameters

Model	SPW-A-48100	SPW-A-48200	SPW-A-48300	SPW-A-51.2100	SPW-A-51.2200	SPW-A-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		150A	50A		150A
Standard discharging current	100A		200A	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 touch screen					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	47.2	87	115	48	91	120
GW.(kg)	51.4	105	133	55	109	138
Product size (mm)	545*460*200	790*530*200	790*530*240	545*460*200	790*530*200	790*530*240
Package size (mm)	625*540*300	870*610*410	850*590*300	625*540*300	870*610*410	850*590*300

SPW-B Power Wall Lithium Energy Storage Battery

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



BMS protection



Wall hanging design



Home energy storage



Intelligent communication

Product Introduction

The SPW-B 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-B-48100	SPW-B-48200	SPW-B-48300	SPW-B-51.2100	SPW-B-51.2200	SPW-B-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		150A	50A		150A
Standard discharging current	100A		200A	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 display screen					
Warranty	5 Years					
Certificate	UN38.3/MSDS/CE/ROHS/FCC					
NW. (kg)	47.2	87	115	48	91	120
GW.(kg)	51.4	105	133	55	109	138
Product size (mm)	545*460*200	790*530*200	790*530*240	545*460*200	790*530*200	790*530*240
Package size (mm)	625*540*300	870*610*410	850*590*300	625*540*300	870*610*410	850*590*300

SPV Vertical LFP Energy Storage Battery

48V/51.2V 200Ah/300Ah

- 
 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 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	SPV-51.2300
Standard voltage	51.2V
Standard capacity	300Ah
Rated capacity	15.36kWh
Working voltage	43.2-57.6V
Standard charging current	150A
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)	120.8
GW.(kg)	139.6
Product size (mm)	820*550*270
Package size (mm)	880*635*460

SBM-I Low Voltage Stacked Lithium Energy Storage Battery

Inverter output: 5.5kW/8kW/10kW
 Number of battery modules: 51.2V 100Ah

- 
BMS protection
- 
Stacked design
- 
Home energy storage
- 
Intelligent communication



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	8kW	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	16000VA	20000VA
Efficiency	max 93.5%	max 98%	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	11000W
MPPT range @ working voltage	120-500VDC	90-500VDC	90-500VDC
Maximum solar charging current	100A	150A	150A
Maximum AC charging current	60A	120A	150A
Maximum charging current	100A	150A	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	26.2	27
GW.(kg)	36	39	40
Product size (mm)	550*500*178(Regular style) 550*210*470(Ultra thin style)	550*500*178(Regular style) 550*210*470(Ultra thin style)	550*500*178(Regular style) 550*210*470(Ultra thin style)
Package size (mm)	650*600*290	650*600*290	650*600*290



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

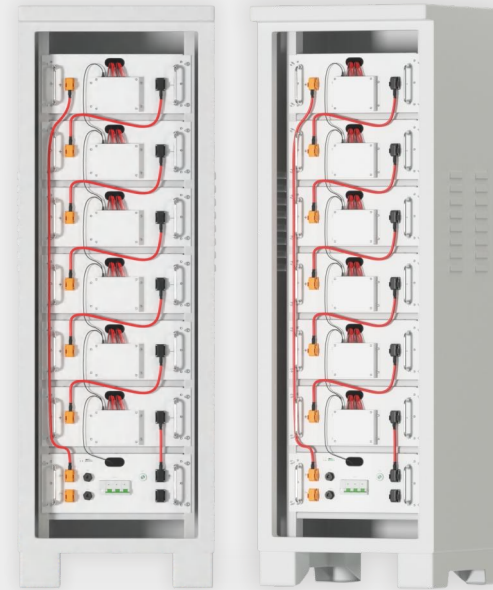
- ✘ Energy storage system, control system, alarm system, power system, database
- ✘ Emergency lighting system, emergency power supply, UPS
- ✘ Telecommunications, communication, and fire protection

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	8C %				
Cycle life	>6000 cycles				
IP Rating	IP21				
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)	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

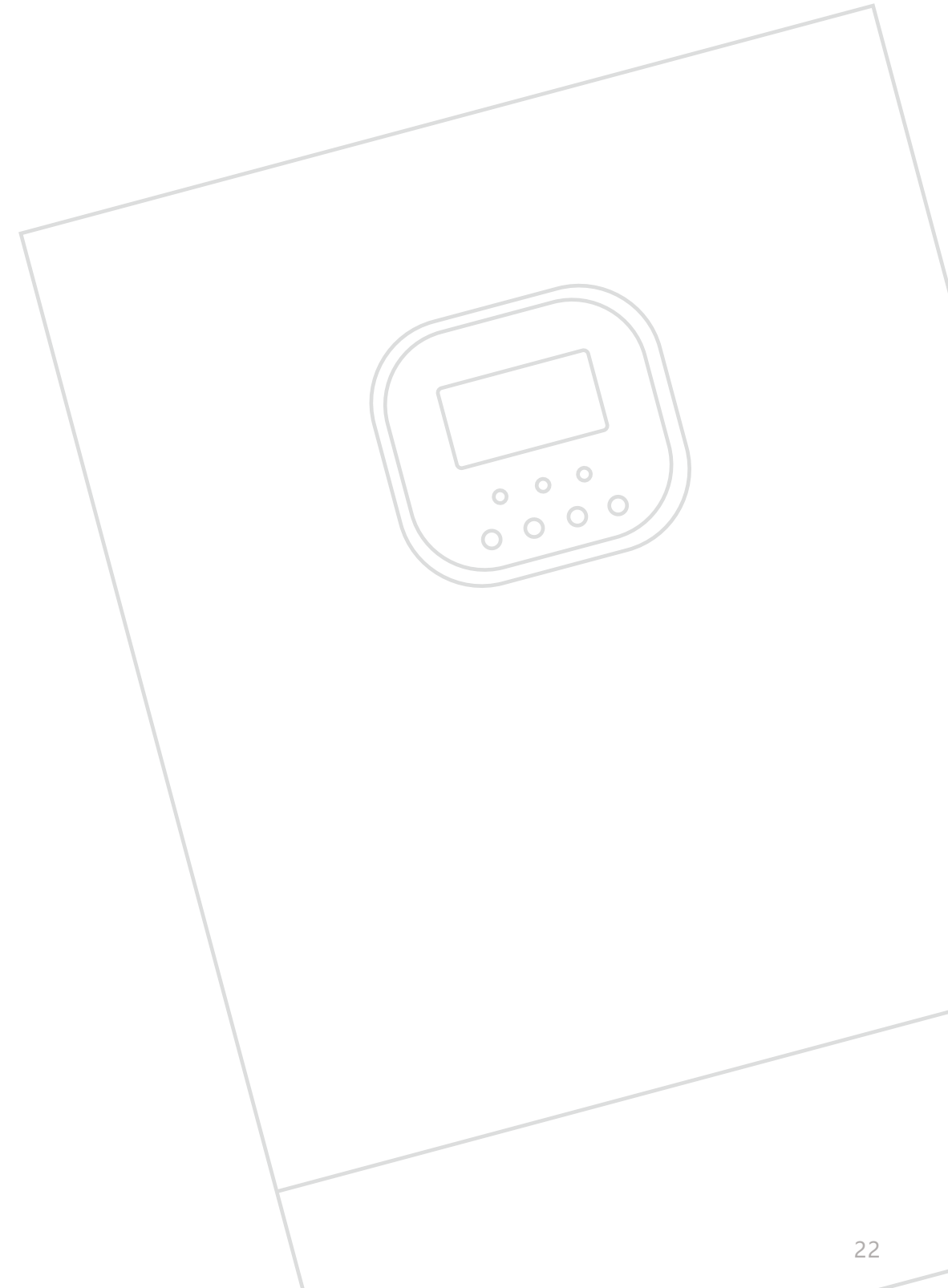
Model	SBS-H-20.48kWh	SBS-H-30.72kWh	SBS-H-40.96kWh	SBS-H-51.2kWh	SBS-H-61.44kWh
Standard voltage	102.4V				
Number of modules	1+2/PCS	1+3/PCS	1+4/PCS	1+5/PCS	1+6/PCS
Standard capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Rated capacity	10.24kWh*2	10.24kWh*3	10.24kWh*4	10.24kWh*5	10.24kWh*6
Working voltage	172.8-230.4V	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

02

INVERTER

Photovoltaic Power Inverter

Provide users with a one-stop photovoltaic energy storage solution



SDPO Off Grid Hybrid Inverter(EU Model)

1-10kW

- Lithium communication
- Photovoltaic+mains charging
- Eight major protection functions
- Pure sine wave output



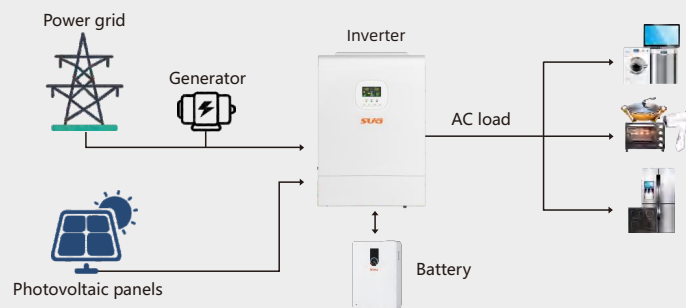
Product Introduction

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	SDPO-P-5.5k
AC/Generator input				
Rated input voltage	220/230/240VAC			
Voltage range	90-280VAC ± 3V (household appliance mode) 170-280VAC ± 3V (UPS mode)			
	50/60Hz (adaptable)			
Inverted output				
Rated power	1000W	1500W	3000W	5500W
Output voltage	220/230/240VAC±5%			
Waveform	Pure sine wave			
Switching time (adjustable)	Computer equipment 10ms, household appliances 20ms			
Peak power	2000W	3000W	6000W	11000W
Battery				
Battery type	Lithium ion batteries/lead-acid batteries/user-defined			
Rated battery voltage	12Vdc	24Vdc	24Vdc	48Vdc
Battery voltage range	10~15.6V	20~31V	20~31V	40~60V
PV input				
PV charging method	MPPT			
PV maximum input power	600W	1200W	4200W	5500W
MPPT tracking range	20-150VDC	30-150VDC	120-500VDC	120-500VDC
Maximum PV charging current	40A	40A	100A	100A
Maximum AC charging current	40A	40A	60A	60A
Maximum total charging current	80A	80A	100A	100A
Basic parameters				
Communication interface	USB/RS485 (optional WiFi)/dry connector			
Parallel interface	/	/	/	Parallel function (optional)
Product size (mm)	290*240*91	290*240*91	495*312*125	495*312*125
Package size (mm)	340*295*145	340*295*145	565*385*195	565*385*195
NW. (kg)	3	3.5	9.13	10.83
GW. (kg)	3.5	4	10.35	12.26

Product Parameters

Model	SDPO-8KW	SDPO-10KW
AC/Generator input		
Rated input voltage	220/230/240VAC	
Voltage range	90-280VAC ± 3V (household appliance mode) 170-280VAC ± 3V (UPS mode)	
	50/60Hz (adaptable)	
Inverted output		
Rated power	8000W	10000W
Output voltage	220/230/240VAC±5%	
Waveform	Pure sine wave	
Switching time (adjustable)	Computer equipment 10ms, household appliances 20ms	
Peak power	16000W	20000W
Battery		
Battery type	Lithium ion batteries/lead-acid batteries/user-defined	
Rated battery voltage	48Vdc	
Battery voltage range	40~60Vdc	
PV input		
PV charging method	MPPT	
PV maximum input power	2x5500W	2x5500W
MPPT tracking range	90-500VDC	90-500VDC
Maximum PV charging current	150A	150A
Maximum AC charging current	120A	150A
Maximum total charging current	150A	150A
Basic parameters		
Communication interface	USB/RS485 (optional WiFi)/dry node control	
Parallel interface	Parallel function (optional)	
Product size (mm)	570*500*148	570*500*148
Package size (mm)	708*570*241	708*570*241
NW. (kg)	19.27	19.27
GW. (kg)	22.2	22.2



SDPO-U Off Grid Hybrid Inverter(US Model)

3-10kW

- Lithium communication
- Photovoltaic+mains charging
- Eight major protection functions
- Pure sine wave output



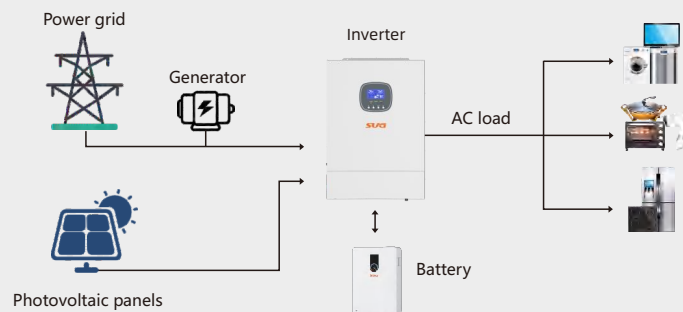
Product Introduction

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. The 8-10kW model 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-U-3kW	SDPO-U-5kW	SDPO-U-8kW Split	SDPO-U-10kW Split
AC/Generator input				
Rated input voltage	110/120VAC			
Voltage range	(90Vac~140Vac)±2%			
Frequency	50Hz±0.3Hz/60Hz±0.3HZ			
Inverted output				
Rated power	3000W	5000W	8000W	10000W
Output voltage	110/120Vac±5%		120/240Vac±5%	
Waveform	Pure sine wave			
Switching time (adjustable)	Computer equipment 10ms, household appliances 20ms			
Peak power	6000W	10000W	16000W	20000W
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	1600W	5500W	11000W	11000W
MPPT tracking range	30-85VDC	120-450VDC	125-425VDC	125-425VDC
Maximum PV charging current	60A	80A	180A	200A
Maximum AC charging current	40A	40A	100A	120A
Maximum total charging current	60A	80A	180A	200A
Basic parameters				
Communication interface	USB/RS485 (optional WiFi)/dry connector			
Parallel interface	/	Maximum of 6 parallel machines (optional)		
Product size (mm)	378*280*103	426*322*126	498*410*201	498*410*201
Product size (mm)	448*360*188	502*414*209	790*570*252	790*570*252
NW. (kg)	6.8	10.5	27	27
GW. (kg)	8.3	13.4	29	29

SGPE Series Pure Sine Wave Inverter With E Display

300W-8000W

- Remote control
- Intelligent display
- Eight major protection functions
- Pure sine wave output



Product Introduction

The SGPE series high-frequency pure sine wave inverter adopts intelligent color display design, visualizes operating data, uses imported chips and independently developed software, and outputs pure sine wave quality better than mains power. It can be used to run most electric tools and inductive loads; At the same time, the design of input and output circuits is completely isolated, ensuring the safety of system operation. The newly upgraded digital remote control and customized Bluetooth APP can perfectly match the outdoor RV application scenarios.

Product features

- 1 Intelligent display/remote control panel display
- 2 Pure sine wave inverter
- 3 Customizable Bluetooth and wireless remote control functions
- 4 Customizable RS485 communication
- 5 Customized input voltage: 36/60/72/96/110VDC
- 6 Customizable for various types of sockets
- 7 Stable voltage output with almost no voltage drop at full load

Optional Accessories



Product Parameters

Model	SGPE-300	SGPE-500	SGPE-600	SGPE-1000	SGPE-1500	SGPE-2000	SGPE-2500
Rated power	300W	500W	600W	1000W	1500W	2000W	2500W
Peak power	600W	1000W	1200W	2000W	3000W	4000W	5000W
Input voltage	12/24/48VDC (customizable)						
Output voltage	110/220VAC±5%						
USB output	5V2A						
Type-C output	Optional(PD30W/PD60W)						
Frequency	50Hz ± 3 or 60Hz ± 3						
Output waveform	Pure sine wave						
Soft start	yes						
Total harmonic distortion THD	THD<3% (linear load)						
Efficiency	Maximum 94%						
DC input range	12V(10V-15.5V); 24V(20V-31V); 48V(40V-61V)						
Input undervoltage alarm	12V(10.5V±0.5V); 24V(21V±0.5V); 48V(42V±1V)						
Input undervoltage protection	12V(10V±0.5V); 24V(20V±0.5V); 48V(40V±1V)						
Input undervoltage recovery	12V(12V±0.5V); 24V(24V±0.5V); 48V(48V±1V)						
Input overvoltage protection	12V(15.5V±0.5V); 24V(31V±0.5V); 48V(60V±1V)						
Input overvoltage recovery	12V(15V±0.5V); 24V(20V±0.5V); 48V(59V±1V)						
Refrigeration method	Intelligent fan						
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)						
Working temperature	-10°C- +50°C						
Product size (cm)	18.8*10.2*6	21*11.3*5.5	20.5*15*7.8	29.8*17*10.2	29.8*17*10.2	38.1*17*10.5	42.3*17*10.5
Package size (cm)	54.5*49*32.5/18PCS	65.5*43.5*31.3/16PCS	76*45*28/10PCS	53.5*47*40.7/6PCS	53.5*47*40.7/6PCS	47.5*47*36.5/4PCS	47.5*47*36.5/4PCS
NW./PCS (kg)	0.9	1.25	1.7	2.74	2.8	4.02	4.76
GW./Ctn (kg)	23	22.5	22.34	20.52	21	21.7	22.52
Packaging method	Carton						
Warranty	2 Years						

Product Parameters

Model	SGPE-3000	SGPE-3500	SGPE-4000	SGPE-5000	SGPE-6000	SGPE-8000
Rated power	3000W	3500W	4000W	5000W	6000W	8000W
Peak power	6000W	7000W	8000W	10000W	12000W	16000W
Input voltage	12/24/48VDC (customizable)					
Output voltage	110/220VAC±5%					
USB output	5V2A					
Type-C output	Optional(PD30W/PD60W)					
Frequency	50Hz ± 3 or 60Hz ± 3					
Output waveform	Pure sine wave					
Soft start	Yes					
Total harmonic distortion THD	THD<3% (linear load)					
Efficiency	Maximum 94%					
DC input range	12V(10V-15.5V); 24V(20V-31V); 48V(40V-61V)					
Input undervoltage alarm	12V(10.5V±0.5V); 24V(21V±0.5V); 48V(42V±1V)					
Input undervoltage protection	12V(10V±0.5V); 24V(20V±0.5V); 48V(40V±1V)					
Input undervoltage recovery	12V(12V±0.5V); 24V(24V±0.5V); 48V(48V±1V)					
Input overvoltage protection	12V(15.5V±0.5V); 24V(31V±0.5V); 48V(60V±1V)					
Input overvoltage recovery	12V(15V±0.5V); 24V(20V±0.5V); 48V(59V±1V)					
Refrigeration method	Intelligent fan					
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)					
Working temperature	-10°C-+50°C					
Product size (cm)	50.5*19.9*8.4	48*19.9*8.4	51*20*15	51*20*15	61*20*15	61*20*15
Package size (cm)	60*27*31.5/ 2PCS	56.5*30.8*24/ 1PCS	65*32.5*25/ 1PCS	65*32.5*25/ 1PCS	74*32*25/ 1PCS	74*32*25/ 1PCS
NW./PCS (kg)	6.35	8.92	9.04	10.12	12.25	13.14
GW. /Ctn (kg)	15.45	10.7	10.84	13.25	14	14.96
Packaging method	Carton	Honeycomb box				
Warranty	2 Years					



SGPC Series Pure Sine Wave Inverter With Charger

500W-5000W



- Remote control
- Supports lithium battery
- Eight major protection functions
- Pure sine wave output

Product Introduction

The SGPC Series Pure Sine Wave Inverter with charging has complementary functions of mains charging and mains power, which can prioritize the power supply to the load and charge the battery. When the mains power is cut off, it will automatically switch to inverter power supply, ensuring uninterrupted power supply to the load. The output sine waveform quality is better than that of mains power; At the same time, the design of input and output circuits is completely isolated, ensuring the safety of system operation.

Product features

- ① Priority of mains power supply to load
- ② Equipped with mains charging and UPS functions
- ③ LCD remote control panel optional
- ④ Customizable for various types of sockets
- ⑤ Pure sine wave inverter
- ⑥ Can support lithium battery activation

Optional Accessories



Product parameters

Model	SGPC-500	SGPC-1000	SGPC-1500	SGPC-2000	SGPC-3000	SGPC-4000	SGPC-5000
Rated power	500W	1000W	1500W	2000W	3000W	4000W	5000W
Peak power	1000W	2000W	3000W	4000W	6000W	8000W	10000W
Input voltage	12/24/48VDC						
Output voltage	110/220VAC±5%						
USB port	5V2A						
Frequency	50Hz ± 3 or 60Hz ± 3						
Output waveform	Pure sine wave						
Soft start	yes						
Charging current	12V/10A or 24V/5A		12/20A or 24V/10A			24V/20A or 48V/10A	
Power supply priority	Priority for AC						
Switching time	<10 ms						
DC input range	12V(10V-15.5V); 24V(20V-31V); 48V(40V-61V)						
Input undervoltage alarm	12V(10.5V±0.5V); 24V(21V±0.5V); 48V(42V±1V)						
Input undervoltage protection	12V(10V±0.5V); 24V(20V±0.5V); 48V(40V±1V)						
Input undervoltage recovery	12V(12V±0.5V); 24V(24V±0.5V); 48V(48V±1V)						
Input Overvoltage Protection	12V(15.5V±0.5V); 24V(31V±0.5V); 48V(60V±1V)						
Input overvoltage recovery	12V(15V±0.5V); 24V(20V±0.5V); 48V(59V±1V)						
Refrigeration method	Intelligent fan						
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)						
Working temperature	-10°C-+50°C						
Product size (cm)	29.8*17*10.2	37.5*17*10.2	37.5*17*10.2	43*17*10.2	51*19.8*14.5	61*19.8*14.5	61*19.8*145
Package size (cm)	53.5*47*40*7/6pcs	47.5*47*36.5/4PCS	47.5*47*36.5/4PCS	53*47*36.5/4PCS	65*32.5*25/1PCS	74*32*25/1PCS	74*32*25/1PCS
NW./PCS (kg)	2.7	3.5	3.7	5.25	8.9	11.14	13.56
GW. /Ctn (kg)	22	18	20	24.2	10.82	13.48	16.18
Packaging method	Carton				Honeycomb box		
Warranty	1Year						

SGPI Double Voltage Auto Recognize Inverter

500W-1000W



- Automatic voltage recognition
- Remote control
- Eight major protection functions
- Pure sine wave output

Product Introduction

The SGPI series dual voltage automatic identification inverter can automatically identify the input voltage and stably output 220V or 110VAC when the input voltage is between 12VDC and 24VDC. SGPI has the same functions and performance as the SGPE series. It adopts intelligent color display design, operates data visualization, and outputs sine waveform quality better than mains power; At the same time, the design of the transmission and output lines is completely isolated, ensuring the safety of the system operation.

Product features

- 1 Intelligent color display/remote control panel display
- 2 Pure sine wave inverter
- 3 Customizable Bluetooth and wireless remote control functions
- 4 Customizable for various types of sockets
- 5 Input 12/24Vdc for automatic recognition
- 6 Stable voltage output with almost no voltage drop at full load
- 7 Customizable RS485 communication

Optional Accessories



Product parameters

Model	SGPI500	SGPI1000
Rated power	500W	1000W
Peak power	1000W	2000W
Input voltage	12/24VDC	
Output voltage	110/220VAC±5%	
USB port	5V2A	
Frequency	50Hz ± 3 or 60Hz ± 3	
Output waveform	Pure sine wave	
Soft start	yes	
Total harmonic distortion THD	THD < 3% (linear load)	
Efficiency	Maximum 94%	
DC input range	12V(10V-15.5V); 24V(20V-31V)	
Input undervoltage alarm	12V(10.5V±0.5V); 24V(21V±0.5V)	
Input undervoltage protection	12V(10V±0.5V); 24V(20V±0.5V)	
Input undervoltage recovery	12V(13V±0.5V); 24V(24V±0.5V)	
Input Overvoltage Protection	12V(15.5±0.5V); 24V(31V±0.5V)	
Input overvoltage recovery	12V(14.8V±0.5V); 24V(30V±0.5V)	
Refrigeration method	Intelligent fan	
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)	
Working temperature	-10°C - +50°C	
Product size (cm)	24*15*7.8	31.8*17*10.5
Package size (cm)	76*45*28/10PCS	53.5*47*40.7/6PCS
NW./PCS (kg)	1.78	3.02
GW. /Ctn (kg)	22.8	21.8
Packaging method	Carton	
Warranty	1Year	

SGPF Pure Sine Wave Inverter

1000W-3000W



Compact in size



Eight major protection functions



Pure sine wave output

Product Introduction

The SGPF series high-frequency pure sine wave inverter adopts independently developed software, which outputs pure sine waveform with better quality than mains power and can be used to operate most electric tools and inductive loads; At the same time, the design of input and output circuits is completely isolated, ensuring the safety of system operation.

Product features

- ① Input and output are completely isolated
- ② Stable operation at full power load
- ③ Soft start function
- ④ Pure sine wave inverter
- ⑤ Small size, easy to carry and install
- ⑥ Eight major protection functions

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	SGPF-1000	SGPF-1500	SGPF-2000	SGPF-3000
Rated power	1000W	1500W	2000W	3000W
Peak power	2000W	3000W	4000W	6000W
Input voltage	12/24/48VDC			
Output voltage	110/220VAC±5%			
USB port	5V2A			
Frequency	50Hz ± 3 or 60Hz ± 3			
Output waveform	Pure sine wave			
Soft start	yes			
Efficiency	Maximum 94%			
DC input range	12V(10V-15.5V); 24V(20V-31V); 48V(40V-61V)			
Input undervoltage alarm	12V(10.5V±0.5V); 24V(21V±0.5V); 48V(42V±1V)			
Input undervoltage protection	12V(10V±0.5V); 24V(20V±0.5V); 48V(40V±1V)			
Input undervoltage recovery	12V(13V±0.5V); 24V(24V±0.5V); 48V(48V±1V)			
Input Overvoltage Protection	12V(16V±0.5V); 24V(31V±0.5V); 48V(61V±1V)			
Input overvoltage recovery	12V(14.8V±0.5V); 24V(29V±0.5V); 48V(59V±1V)			
Refrigeration method	Intelligent fan			
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)			
Working temperature	-10°C- +50°C			
Product size (cm)	28.2*14.4*7.3	31.2*14.4*7.3	33.7*16.3*8.1	37.7*16.3*8.1
Package size (cm)	55*41.5*38/8PCS	41.5*41.5*41.3/6PCS	45.5*30*45.5/4PCS	50*44.5*23/3PCS
NW./PCS (kg)	2	2.4	3.2	4.25
GW. /Ctn (kg)	18.9	17.4	16.6	15.91
Packaging method	Carton			
Warranty	1Year			

SGM Modified Sine Wave Inverter

300W-3000W



- 
 Small volume/
light weight
- 
 Eight major
protection functions
- 
 Modified sine
wave output

Product Introduction

The SGM series modified wave inverter uses PWM pulse width modulation to generate correction wave output. During the inversion process, due to the use of dedicated intelligent circuits and high-power field-effect transistors, the power loss of the system is greatly reduced. And added a soft start function, effectively ensuring the reliability of the inverter.

Product features

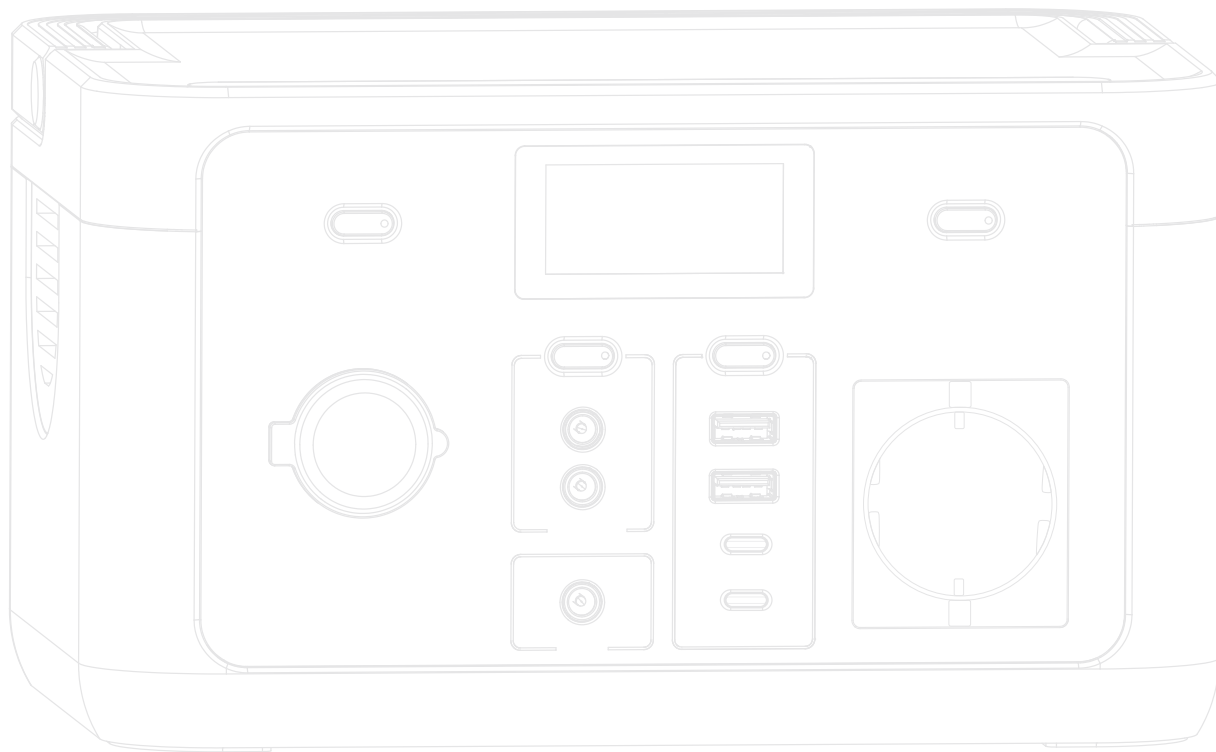
- 1 Soft start
- 2 Input and output are completely isolated
- 3 Modified sine wave inverter
- 4 Stable operation at full power load
- 5 Eight major protection functions
- 6 Small size, easy to carry and install

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	SGM-300	SGM-500	SGM-1000	SGM-1500W	SGM-2000	SGM-3000
Rated power	300W	500W	1000W	1500W	2000W	3000W
Peak power	600W	1000W	2000W	3000W	4000W	6000W
Input voltage	12/24/48VDC					
Output voltage	110/220VAC±5%					
USB port	5V2A					
Frequency	50Hz ± 3 or 60Hz ± 3					
Output waveform	Modified sine wave					
Soft start	yes					
Total harmonic distortion THD	THD < 3% (linear load)					
Efficiency	Maximum 92%					
DC input range	12V(10V-15.5V); 24V(20V-31V); 48V(40V-61V)					
Input undervoltage alarm	12V(10.5V±0.5V); 24V(21V±0.5V); 48V(42V±1V)					
Input undervoltage protection	12V(10V±0.5V); 24V(20V±0.5V); 48V(40V±1V)					
Input undervoltage recovery	12V(12V±0.5V); 24V(24V±0.5V); 48V(48V±1V)					
Input overvoltage protection	12V(16V±0.5V); 24V(31V±0.5V); 48V(63V±1V)					
Input overvoltage recovery	12V(15.59V±0.5V); 24V(29V±0.5V); 48V(60V±1V)					
Refrigeration method	Intelligent fan					
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)					
Working temperature	-10°C - +50°C					
Product size (cm)	15.5*11.2*5.8	16*11.2*5.8	24.5*15*7.7	28.5*15*7.7	32*16.7*9.2	39*16.7*9.2
Package size (cm)	47.5*29.5*32.5/ 20PCS	47.5*29.5*32.5/ 20PCS	51*32.5*41/ 8PCS	51.5*36.8*40.7/ 8PCS	47*40*46.5/ 6PCS	46.7*46.5*31.7/ 4PCS
NW./PCS (kg)	0.84	0.95	1.85	2.45	3.783	4.75
GW./Ctn (kg)	17.8	20	15.8	20.6	23.7	20
Packaging method	Carton					
Warranty	1Year					



03

PORTABLE POWER STATION
MPPT SOLAR CHARGE CONTROLLER

Portable Power Supply/Controller

Provide users with a one-stop photovoltaic energy storage solution

SIPS Portable Power Station

300W-5000W

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



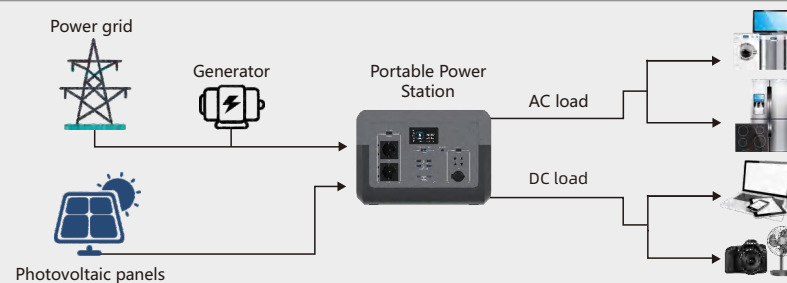
Product Introduction

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

- 1 110V/220Vac output customizable
- 2 3000 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
- 7 USB/TYPER-C/DC5521/Cigar lighter DC output

Product Connection Diagram



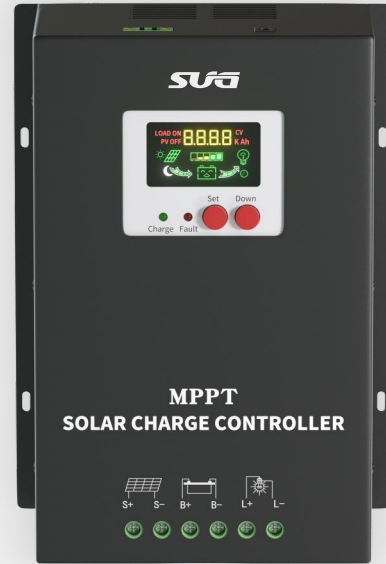
Product parameters




Model	SIPS-300	SIPS-600	SIPS-1500	SIPS-2400	SIPS-3000	SIPS-5000
Rated power	300W	600W	1500W	2400W	3000W	5000W
Peak power	600W	1200W	3000W	4800W	6000W	10000W
Rated capacity	320Wh	560Wh	1280Wh	2560Wh	2560Wh	5120Wh
Battery pack parameters	25Ah,12.8V	25Ah,22.4V	25Ah,51.2V	50Ah,51.2V	50Ah,51.2V	100Ah,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	USB*2PCS QC18W (QC3.0/QC2.0/AFC/FCP/BC1.2/APPLE)		USB*4PCS QC18W(QC3.0/QC2.0/AFC/FCP/BC1.2/APPLE)			
Type-C1 output	PD60W	PD100W(5V3A/9V3A/12V3A/15V3A/20V5A)				
Type-C2 output	PD30W (5V3A/9V3A/12V2.5A/15V2A/20V1.5A)		PD100W(5V3A/9V3A/12V3A/15V3A/20V5A)			
Cigarette lighter/2 * DC5521 output	12V/10A	12V/10A	/	/	/	/
Cigarette lighter/4 * DC5521 output	/	/	12V/10A	12V/10A	12V/10A	12V/10A
Solar panel/DC5521 charging	10.8V-23V,3A (Maximum 60W)	12-60V,12A (Maximum 240W)	10-60V,13A (Maximum 440W)	10-60V,13A (Maximum 440W)	10-60V,13A (Maximum 440W)	120-450V,45A (Maximum 5000W)
AC charging	/	(Maximum 500W)	90-246V (Maximum 1200W)	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 (cm)	240*185*138	254*200*182	374*265*263	374*265*349	403*300*435	520*405*514
Package size (cm)	560*448*240	313*255*290	472*368*365	374*265*349	546*446*640	660*500*605
NW./PCS (kg)	3.9	7	17	26	37.5	72
GW. /Ctn (kg)	21 (4 units per box)	8	19.5	29	53	90
Describe	Grade A LiFePO4 Battery		UPS/Bidirectional inverter/Supports parallel connection/With WIFI and Bluetooth/Can work at high power/Voltage adjustable/Grade A LiFePO4 Battery			
Packaging method	Carton				Wooden box	
Warranty	1 year					

SSM-MPPT Solar Charge Controller

12V/24V: 20A - 40A

12V/24V/36V/48V: 30A - 160A



- 
 Automatic voltage recognition
- 
 LCD display
- 
 MPPT tracking charging

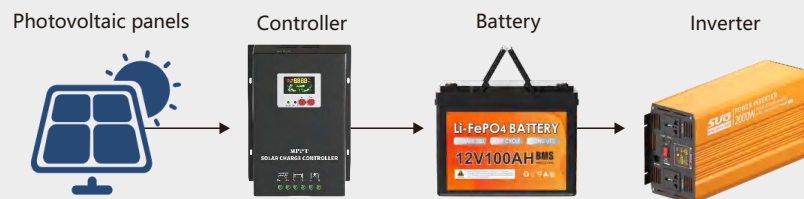
Product Introduction

The SSM controller is suitable for automatic control of charging and discharging processes in solar off grid systems (independent systems). The charging mode of the controller is divided into MPPT and DC-DC, and the discharge process of the battery is optimized to extend the battery's life and improve system performance. Its comprehensive electronic protection function can prevent users from damaging the controller due to installation errors and system failures.

Product features

- 1 Automatic voltage recognition
- 2 Lightning protection
- 3 Adopting large screen LCD display
- 4 Over charge, over discharge, overload, short circuit, and battery anti reverse protection
- 5 Adopting MPPT tracking mode to effectively improve charging efficiency

Product Connection Diagram



Product parameters

Model	SSM-20A	SSM-30A	SSM-40A	SSM-30A	SSM-40A
Maximum open circuit voltage of the battery board	<100V			<180V	
MPPT voltage range	13V-100V(12V); 26V-100V(24V)			13V-120V(12V); 26V-140V(24V); 52V-160V(48V)	
Maximum input current	20A	30A	40A	30A	40A
Maximum input current	20A	30A	40A	50A	60A
maximum input power of solar energy is 12V	240W	360W	480W	360W	480W
maximum input power of solar energy is 24V	480W	720W	960W	720W	960W
maximum input power of solar energy is 48V	/	/	/	1440W	1920W
Adjustable battery type	Supports lead-acid, colloid, open end, and lithium batteries (with self set voltage)				
Charging mode	MPPT or DC/DC (adjustable)				
Maximum charging efficiency	MPPT mode: 96%				
Product size/unit (mm)	186*148*64.5			172.8*249.7*111.1	
NW./unit (kg)	1.8			3.5	
Working temperature	-25°C~+60°C				
Remote monitoring function	Rs485 optional				

Model	SSM-50A	SSM-60A	SSM-80A	SSM-100A	SSM-120A	SSM-160A
Maximum open circuit voltage of the battery board	< 180V			<230V		
MPPT voltage range	13V-120V(12V); 26V-140V(24V); 52V-160V(48V)			80V-180V(12V/24V/36V); 100V-230V (48V)		
Maximum input current	50A	60A	80A	100A	120A	160A
Maximum input current	50A	60A	80A	100A	120A	160A
maximum input power of solar energy is 12V	600W	720W	960W	1200W	1440W	1920W
maximum input power of solar energy is 24V	1200W	1440W	1920W	2400W	2880W	3840W
maximum input power of solar energy is 36V	/	/	/	3600W	4320W	5760W
maximum input power of solar energy is 48V	2400W	2880W	3840W	4800W	5760W	7680W
Adjustable battery type	Supports lead-acid, colloid, open end, and lithium batteries (with self set voltage)					
Charging mode	MPPT					
Maximum charging efficiency	MPPT mode: 96%					
Product size/unit (mm)	172.8*249.7*111.1	342.8*190 * 117		310*327*135	499*399*178	
NW./unit (kg)	1.8	5		6.5	10.7	
Working temperature	-25°C~+60°C					
Remote monitoring function	Rs485 optional					