

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*156(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

