

BST-SPSS series Solar Generator 3000W/5000W

Feature:

- ◆ Low frequency, pure sine wave output.
- ◆ Wide AC voltage input range, AVR output.
- ◆ Built-in EI transformer/toroidal transformer optional.
- ◆ LCD real-time display, concise and straight forward.
- ◆ AC prior/EC mode/Battery prior selectable.
- ◆ 50Hz/60Hz automatic recognition.
- ◆ RS232 communication port optional.
- ◆ Support diesel/gasoline generator



Specification

Model BST	BST-SPSS 3000W	BST-SPSS 5000W
Rated Power	3000W	5000W
Peak power	9000W	15000W
Battery Voltage	48(51.2)VDC	48(51.2)VDC
Built-in LiFePO4 Battery Capacity	51.2V120AH(6144WH) battery	51.2V198AH(10137.6WH) battery
Description	3000W 12V Low frequency pure sine wave Inverter +12V 50A PWM Solar controller +1*51.2V120AH LiFePO4 battery, Actual battery capacity :120AH	5000W 12V Low frequency pure sine wave Inverter +12V 60A PWM Solar controller +1*51.2V198AH LiFePO4 battery, Actual battery capacity :198AH

Parameter

Capacity	Rated power	3000W	5000W
	Peak power	9000W	15000W
Input	Battery Input Voltage Range	42V~60V for 48V system	
	AC Input Voltage Range	73VAC~138VAC or 145VAC~275VAC	
	AC Input Frequency Range	45Hz~65Hz(50Hz/60Hz automatic recognition)	
Output	Efficiency(Battery Mode)	≥90%	
	Output Voltage(Battery Mode)	110VAC±2% or 220VAC±2%	
	Output Frequency(Battery Mode)	50Hz±0.5 or 60Hz±0.5	
	Output Wave(Battery Mode)	Pure Sine Wave	
	Efficiency(AC Mode)	>99%	

	Output Voltage(AC Mode)	110VAC±10% or 220VAC±10%	
	Output Frequency(AC Mode)	Tracking Automatically	
	Output waveform distortion(Battery Mode)	≤3%(Linear load)	
AC charger	AC charging current	Max 15A	
	AC charging voltage	Charge Voltage: 28V for 24V system, 56V for 48V system; Float Voltage: 27.6V for 24V system, 55.2V for 48V system	
	AC charging method	Three-stage(constant current, constant voltage, floating charge)	
Battery Type	Customize battery	Charge and discharge parameters of different types of batteries (such as lithium batteries, etc.) can be customized according to user requirements	
PWM Solar charger	Charging mode	SMART controller	
	Max PV input voltage(at 25°C)	100V	
	PV input voltage range	60~88V	60~88V
	Charge & discharge current	50A	60A
	Max PV input power	2800W	3360W
Solar panel	Solar panel standard	6*275W/30V(2S3P)	8*275W/30V(2S4P)
Inbuilt battery	Capacity	1*51.2V120AH	1*51.2V198AH
	Battery size(LxWxH)/pcs	1* (500*400*315mm)	1* (750*400*315mm)
Working Mode(Selectable)	AC prior(01)	Under AC prior mode, device will always use utility source and through regulator to supply loads as well as charge battery(charging current selectable); when utility power is with high/low/serious distortion or other Under Energy saving mode, device dedects load, when the load is < 10% rated power, device will auto on/off AC output; when the load is > 10% Under Battery prior mode, device will always use battery source to coverter high quality electricity for load; when battery source is failed, device will auto use utility source and through regulator to supply loads.	
	EC mode(02)		
	Battery prior(03)		
Protection	Battery low voltage alarm	22V for 24V system; 44V for 48V system	
	Battery low voltage protection	21V for 24V system; 42V for 48V system	
	Battery high voltage alarm	30V for 24V system; 60V for 48V system	
	Battery high voltage protection	34V for 24V system; 68V for 48V system	
	Battery high voltage recover	29V for 24V system; 58V for 48V system	
	Overload protection	Automatic protection(battery mode), circuit breaker or fuse (AC mode)	
	Inverter output short circuit protect	Automatic protection (battery mode), circuit breaker or fuse (AC mode)	
	Temperature protection	>90°C(Shut down output)	
Alarm	A	Normal working condition, buzzer has no alarm sound	
	B	Buzzer sounds 4 times per second when battery failure, voltage abnormality,	
	C	When the machine is turned on for the first time, the buzzer will prompt 5	
Transfer Time		≤4ms	
Display		LCD	
Thermal method		Cooling fan in intelligent control	
Communication		RS232(Optional)	
Environment	Operating temperature	-20°C~55°C	
	Storage temperature	-15°C~60°C	
	Noise	≤55dB	
	Elevation	2000m (More than derating)	
	Humidity	0%~95% ,No condensation	
Physical	Dimention, L x W x H(mm)	820*450*720	820*450*720
	Net weight(kg)(with battery)	115	157
Packing	Dimention, L x W x H(mm)	875*500*880	875*500*880
	Gross weight(kg)(with battery)	140	182
	Quantity/CTN	1pcs per wooden case	
Note: All specifications are subject to charge without prior notice			