

## BST-SPSS series Solar Generator 300W/500W/1000W/1500KW

### Features :

- ◆ DSP Intelligent control chipset.
- ◆ 3 times peak power, excellent loading capability.
- ◆ AC prior/ECO mode/Battery prior selectable(optional ).
- ◆ Combine inverter/solar controller/battery all in one.
- ◆ Adding fault code to monitor real-time work situations.
- ◆ Continuous stable pure sine wave output with inbuilt AVR stabilizer.
- ◆ LCD display.
- ◆ Inbuilt automatic AC charger and AC mains switcher, stwitch time ≤ 4ms.
- ◆ With UPS function.
- ◆ Inbuilt LIFEPO4 battery .



Model BST-SPSS	BST-SPSS 300W	BST-SPSS 500W	BST-SPSS 1000W	BST-SPSS 1500W
Built-in LIFEPO4 Battery Capacity	1*48AH(614.4WH) battery	1*78AH(998.4WH) battery	2*78AH(1996.8WH) battery	2*120AH(3072WH) battery
Description	300W 12V Low frequency pure sine wave Inverter +12V 20A PWM Solar controller +1*12.8V48AH LiFePO4 battery, Actual battery capacity :48AH	500W 12V Low frequency pure sine wave Inverter +12V 30A PWM Solar controller +1*12V78AH LiFePO4 battery, Actual battery capacity :78AH	1KW 24V Low frequency pure sine wave Inverter +24V 40A PWM Solar controller +1*25.6V 78AH LiFePO4 battery , Actual battery capacity :156AH	1.5KW 24V Low frequency pure sine wave Inverter +24V 50A PWM Solar controller +1*25.6V 120AH LiFePO4 battery, Actual battery capacity :240AH

Specification					
Model		BST-SPSS 300W	BST-SPSS 500W	BST-SPSS 1000W	BST-SPSS 1500W
Capacity	Rated power	300W	500W	1KW	1.5KW
	Peak power	900W	1.5KW	3KW	4.5KW
Input	Standard battery voltage	12VDC	12VDC	24VDC	24VDC
	AC input voltage range	73~138VAC(110VAC) / 145~275VAC(220VAC)			
	AC input frequency range	45Hz~65Hz(50Hz/60Hz automatic recognition)			

Output	Conversion efficiency	≥90%(Battery mode); >99%(AC mode)			
	Output voltage	110VAC±2% / 220VAC±2%(Battery mode); 110VAC±10% / 220VAC±10%(AC mode)			
	Output frequency	50/60Hz±1%(Battery mode); Tracking Automatically(AC mode)			
	Output waveform	Pure Sine Wave			
	THD	≤3%			
	DC Output port	USB outputs (×4) , 12VDC outputs (×4)			
AC charger	AC charging current	max 20A			
	AC charging method	Three-stage(constant current, constant voltage, floating charge)			
PWM Solar charger	Charging mode	SMART controller			
	Max PV input voltage(at 25℃)	50V			
	PV input voltage range	15~44V	15~44V	30~44V	30~44V
	Charge & discharge current	20A	30A	40A	50A
	Max PV input power	280W	420W	1120W	1400W
Solar panel	Solar panel standard	1*160W	1*275W	2*275W	3*160W
Inbuilt battery	Capacity	1*12.8V48AH	1*12.8V78AH	25.6V78AH	25.6V120AH
	Battery size(LxWxH)/pcs	1* ( 160*145*165mm )	1* ( 247*165*157mm )	1* ( 247*165*299mm)	1* ( 352*165*299mm)
Other	Transfer time	≤4ms			
	Protection	with over-voltage, low-voltage, overload, short circuit, high temperature protections			
	Display	LCD			
	Cooling way	Cooling fan in intelligent control			
	Communication	RS232/RS485(Optional)			
Working mode(selectable)	d1	AC priority mode			
	d2(optional)	ECO priority mode			
	d3(optional)	Solar priority mode			
Work environment	Operating temperature	-10℃~40℃			
	Storage temperature	-15℃~60℃			
	Elevation	2000m(More than derating)			
	Humidity	0%~95%, No condensation			
Physical	Dimention, L x W x H(mm)	450*200*430	450*200*430	520*220*580	520*220*580
	Net weight(kg)(with battery)	16.45	20.85	35.6	45.5
	Dimention, L x W x H(mm)	510*260*570	510*260*570	580*280*720	580*280*720

Packing	Gross weight(kg)(with battery)	23.85	27.45	43.95	54.1
	Quantity/CTN	1pcs per wooden case			
* All specifications are subject to charge without prior notice.					