



Guangzhou Best Electronic Technology Co.,Ltd

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BST-SPSS series Solar Generator 300W/500W/1KW/1.5KW

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, switch time ≤ 4ms.
- ◆ With UPS function.
- ◆ Inbuilt LIFEPO4 battery .



Model BST-SPSS	30112-20 (PWM)	50112-30 (PWM)	10224-40 (PWM)	15224-50 (PWM)
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 30A PWM Solar controller	500W 12V Low frequency pure sine wave Inverter +12V 30A PWM Solar controller	1KW 24V Low frequency pure sine wave Inverter +24V 40A PWM Solar controller	1.5KW 24V Low frequency pure sine wave Inverter +24V 60A PWM Solar controller

Specification

Model		BST-SPSS 30112-20	BST-SPSS 50112-30	BST-SPSS 10224-40	BST-SPSS 15224-50
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/18V	1*275W/16.5V	2*275W/30V	3*275W/30V
Inbuilt battery	Capacity	1*12.8V48AH	1*12.8V78AH	2*12.8V78AH	2*12.8V120AH
	Battery size(LxWxH)/pcs	1* (160*145*165mm)	1* (247*165*157mm)	2* (247*165*299mm)	2* (352*165*299mm)
Other	Transfer time	≤4ms			
	Protection	with over-voltage, low-voltage, overload, short circuit, high temprature 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	-20℃~55℃			
	Storage temperature	-15℃~60℃			
	Elevation	2000m(More than derating)			
	Humidity	0%~95%, No condensation			
Physical	Dimention, L x W x H(mm)	450*200*435mm	450*200*435mm	520*220*585mm	520*220*585mm
	Net weight(kg)(with battery)	18.7	25	39	45
Packing	Dimention, L x W x H(mm)	510*260*560mm	510*260*560mm	580*280*690mm	580*280*690mm
	Gross weight(kg)(with battery)	25	31.5	49	55
	Quantity/CTN	1pcs per wooden case			

* All specifications are subject to change without prior notice.