

## BST-WS Series Inverter(1KW-7KW)

### Feature :

- ◆ Low frequency toroidal transformer increase efficiency , Pure sine wave output ;
- ◇ Integrated LCD display; One-button start with an external display screen( optional) ;
- ◆ Dedicated DCP chip design; stable and high-speed operation ;
- ◇ LCD display, easy to monitor the operation condition in real time ;
- ◆ AC charge current 0-30A adjustable; battery capacity configuration more flexible ;
- ◇ Three types working modes adjustable:AC first, DC first, energy-saving mode ;
- ◆ AVR output, all-around automatic protection function ;
- ◇ Frequency adaptive function, adapt to different grid environments ;
- ◇ Added fault codes query function, facilitate user to monitor the operation state in real time ;
- ◆ Supports diesel or gasoline generator, adapt any tough electricity situation ;
- ◇ RS232 /RS485 communication port/APP optional.



## Specification

Model WS	BST-1000W	BST-1500W	BST-2000W	BST-3000W	BST-3500W	BST-4000W	BST-5000W	BST-6000W	BST-7000W
Rated Power	1000W	1500W	2000W	3000W	3500W	4000W	5000W	6000W	7000W
Peak Power ( 20ms)	3000W	4500W	6000W	9000W	10500W	12000W	15000W	18000W	21000W
Start Motor	1HP	1.5HP	2HP	3HP	3HP	3HP	4HP	4HP	5HP
Battery Voltage	12/24VDC	12/24/48VDC		24/48VDC	24VDC	24/48VDC	48VDC		
Size(L*W*Hmm)	555*297*184					615*315*209			
Packing Size(L*W*Hmm)	620*345*255					680*365*280			
N.W.(kg)	15	16	18	21.5	22.5	28.5	29.5	31	35
G.W.(kg) ( Carton Packing )	17	18	20	23.5	24.5	31.5	32.5	34	38
Installation Method	Wall-Mounted								

## Parameter

Input	DC Input Voltage Range	10.5-15VDC ( Single battery voltage )
	AC Input Voltage Range	85VAC~138VAC / 170VAC~275VAC / 180VAC~285VAC / 190VAC~295VAC
	AC Input Frequency Range	45Hz~65Hz
	Max AC charging current	0~30A (Depending on the model )
	AC charging method	Three-stage (constant current, constant voltage, floating charge)
Output	Efficiency(Battery Mode)	≥85%
	Output Voltage(Battery Mode)	110VAC±2% / 220VAC±2% / 230VAC±2% / 240VAC±2%
	Output Frequency(Battery Mode)	50/60Hz±1%
	Output Wave(Battery Mode)	Pure Sine Wave
	Efficiency(AC Mode)	>99%
	Output Voltage(AC Mode)	110VAC±10% / 220VAC±10% / 230VAC±10% / 240VAC±10%
	Output Frequency(AC Mode)	Tracking Automatically
	Output waveform distortion (Battery Mode)	≤3% ( Linear load )
	No load loss(Battery Mode)	≤0.8% rated power
	No load loss(AC Mode)	≤2% rated power ( charger does not work in AC mode )
No load loss(Energy saving Mode)	≤10W	
Battery Type	LEAD	Charge Voltage : 14V ; Float Voltage:13.8V ( 12V system; 24V system x2; 48V system x4 )
	OP-LE	Charge Voltage:14.2V; Float Voltage:13.8V ( 12V system; 24V system x2; 48V system x4 )

( selectable )	LITHIUM	Charge Voltage: 12.6V(NMC battery 3S) (12V system; 24V system x2; 48V system x4)
	Customize battery	Charge and discharge parameters of different types of batteries can be customized according to user requirements
Protection	Battery undervoltage alarm	11V; LITHIUM 9.5V(NMC battery 3S) ( 12V system; 24V system x2; 48V system x4 )
	Battery undervoltage protection	10.5V; LITHIUM 9V(NMC battery 3S) ( 12V system; 24V system x2; 48V system x4 )
	Battery overvoltage alarm	Lead acid battery: 15V(12V system; 24V system x2; 48V system x4)
	Battery overvoltage protection	Lead acid battery: 17V(12V system; 24V system x2; 48V system x4)
	Battery overvoltage recovery voltage	Lead acid battery: 14.5V(12V system; 24V system x2; 48V system x4)
	Overload power protection	Automatic protection (battery mode), circuit breaker or insurance (AC mode)
	Inverter output short circuit protection	Automatic protection (battery mode), circuit breaker or insurance (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, overload protection
	C	When the machine is turned on for the first time, the buzzer will prompt 5 when the machine is normal
Working Mode		Battery First/AC First/Saving Energy Mode
Transfer Time		≤4ms
Display		LCD ( External LCD Display(Optional) )
Thermal method		Cooling fan in intelligent control
Communication(Optional)		RS232/RS485/APP ( WIFI monitoring or GPRS monitoring )
Environment	Operating temperature	-10°C~40°C
	Storage temperature	-15°C~60°C
	Noise	≤55dB
	Elevation	2000m ( More than derating )
	Humidity	0%~95% ,No condensation
Warranty		18 months

**Note: All specifications are subject to change without prior notice**