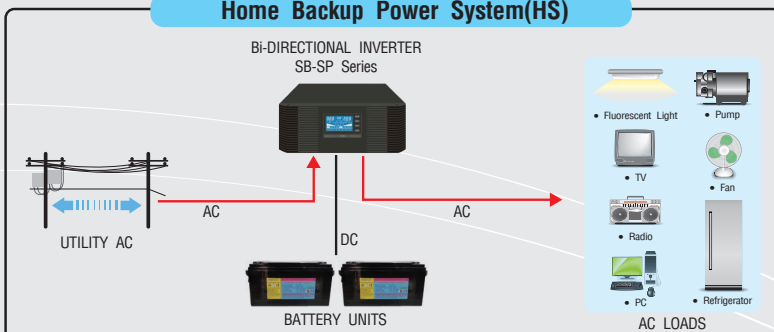


# SUN SB-SP Series

BI-DIRECTIONAL INVERTER • PURE SINE WAVE •  
 With PWM Solar Controller



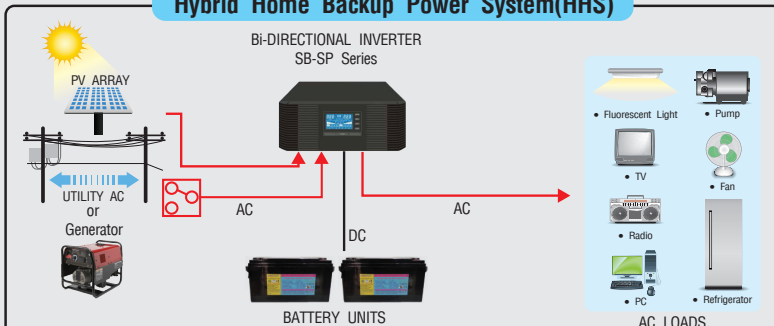
## Home Backup Power System(HS)



### HS solutions

1. HS-500W    2. HS-640W    3. HS-800W    4. HS-1000W

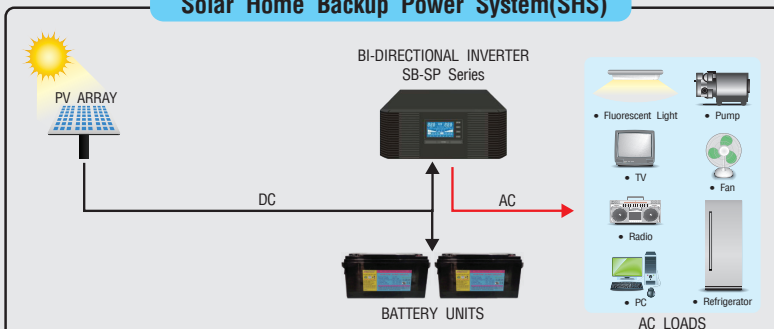
## Hybrid Home Backup Power System(HHS)



### HHS solutions

1. HHS-500W    2. HHS-640W    3. HHS-800W    4. HHS-1000W

## Solar Home Backup Power System(SHS)



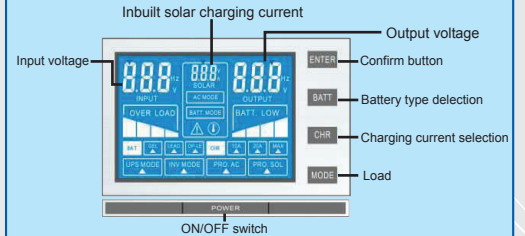
### SHS solutions

1. SHS-500W    2. SHS-640W    3. SHS-800W    4. SHS-1000W

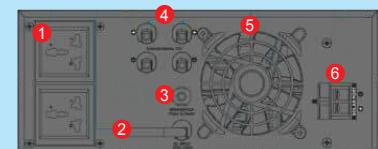
## Feature

- Bi-Directional inverter with stabilizer technology
- Advance microprocessor control
- Wide input voltage range 145-275Vac
- Output pure sine wave 220V ±5%
- Output isolation transformer
- High output efficiency >98%(AVR mode)
- Intelligent battery management(ABM)
- Fast transfer time(4ms)
- Full protection Under/over voltage, Overload, short circuit, Low battery, Over charge, Over-temperature and Fault
- Compatible with generators
- Support Solar home backup
- Selection mode EPS (AC & Batt) and Inverter (PV & Batt)
- Maximum charge current (Max.30A)
- USB/RS232 port communication and software monitoring (option)
- CE, EN62040-1, EN62040-2, TIS.1291-2545 certificated
- ISO9001:2008, ISO14001:2004 certified manufacture

## LCD display



## Rear panel



1. Output sockets
2. Input cord
3. Breaker
4. Battery cables
5. Cooling fan
6. Solar connectors(for solar inverters ONLY)



# SUN SB-SP Series

BI-DIRECTIONAL INVERTER • PURE SINE WAVE •  
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## SPECIFICATION

Model		SB-500SP	SB-600SP	SB-800SP	SB-1000SPA	SB-1200SPB
CAPACITY		500VA/500W	600VA/600W	800VA/800W	1000VA/1000W	1200VA/1200W
	Control and technology	Microprocessor control, Bi-direction inverter with stabilizer function technology				
INPUT	input voltage	220V -34%,+25%/230V option				
	Input frequency	50Hz ±10%/60Hz option				
OUTPUT	Output voltage(stabilizer mode)	220V ± 10%/ 230V option				
	Output voltage(inverter mode)	220V ± 5%/ 230V option				
	Frequency	Synchronize AC input, 50Hz ±0.1%(Inverter mode)/60Hz option				
	Output waveform	Pure sine wave				
	Efficiency	More than 98% Stabilizer mode, more than 85% inverter mode				
	Harmonic distortion (THDv)	Less than 5% linear load				
	Transient response	±10% maximum voltage deviation at 100% step load				
	Crest factor	3:1				
	Transfer time	4-10 ms				
	Overload capability	110% load for 3min, >150% load for 1sec then automatic shutdown				
BATTERY	Battery type	SLA Sealed Lead Acid(maintenance free) rechargeable, Dip-cycle				
	Voltage	12Vdc/24Vdc	12Vdc/24Vdc	12Vdc/24Vdc	12Vdc/24Vdc	12Vdc/24Vdc
	Charge current	10/20A	10/20A	10/20A	10/20A	10/20A
SURGE PROTECTION	Standard energy	UL recognized surge protection to standard 1449				
	I peak	220 joules(510 joules option)(2microsec wave form 8kA(8/20microsec wave form)				
DISPLAY & ALARM	LCD display	Input voltage, Output voltage, Frequency, %load, Overload, %battery, Charging/discharge battery, Operate status auto, stabilizer(AVR), silence alarm and Fault				
	Audible alarm	Main failure(Over/under voltage), Overload, Low battery, Over-temperature and system fault				
SOLAR CONTROL	Nominal voltage	12/24	12/24	12/24	12/24	12/24
	Maximum voltage	22/45	22/45	22/45	22/45	22/45
	Maximum current	55A	55A	55A	55A	55A
	PWM Range Voltage	16~45VDC				
	Maximum Efficiency	>95%				
	Standby Power Consumption	<2W				
OTHER	Feature	AC EPS Mode, Solar mode, Battery Type(AGM, GEL, OPzV), DC start (AC start without battery are option)				
	Input	AC:NEMA 5-15P-1.8metre(AC terminal is option), AC circuit breaker reset-able				
	Outlet	2pcs Universal plug(National plug and terminal are option)				
	Communication	Option USB/RS232 port communication and Software monitoring				
	Acoustic noise	Less than 40dBA				
ENVIRONMENT	Temperature	0-50°C				
	Humidity	0-95%(non condensing)				
PHYSICAL	Dimension(mm) WxDxH	290x255x120				
	Weight(kg)	7.6	8.5	10.8	12.5	13.0
	Design regulation	TIS.1291-2545, CE, EN62040-1, EN62040-2, EN50091-1, EN50091-2, EN50022 classA				

Specification only for reference. Subject to change without prior notice.

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### บริษัท ฟูฟฟฟฟ จำกัด

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