

# SUN SBP Series

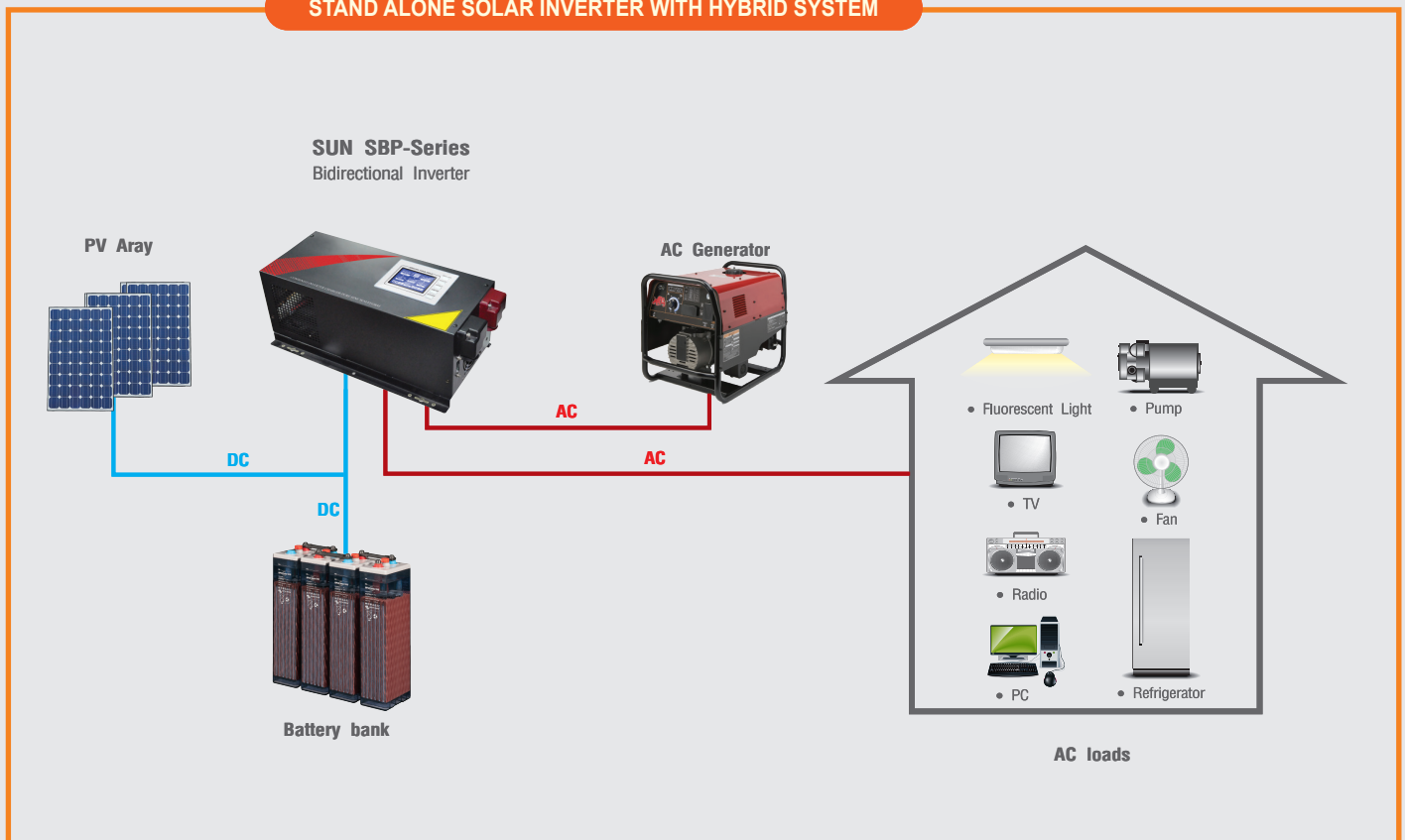
DSP BIDIRECTIONAL INVERTER WITH MPPT SOLAR CONTROLLER

## Features:

- Advanced DSP digital control technology.
- Bidirectional inverter built in output isolated transformer
- Built in PWM solar charge controller
- Pure sine wave THDv <3%(Linear load)
- High efficiency inverter  $\geq 90\%$
- Fast speed automatic transfer time 2-4msec(AC mode)
- Perfect protection function for overload, short circuit and over temperature.
- Automatic low battery shutdown for protect battery.
- Fans cooling automatic speed control.
- Reverse battery polarity protection.
- LCD display friendly & setting parameter.
- Standby low power consumption
- Fast charging to provide quick and safe for charge battery.
- Intelligent battery management IBM(Optional)
- Remote control panel.
- ISO 9001 and ISO14001 certified manufacturer



## STAND ALONE SOLAR INVERTER WITH HYBRID SYSTEM



# SUN SBP Series

DSP BIDIRECTIONAL INVERTER WITH MPPT SOLAR CONTROLLER

Model		SBP-1024	SBP-2024	SBP-3024	SBP-3048	SBP-5048	SBP-6048
<b>SYSTEM</b>	Application	Small Island, Resort, Mountain village, Home					
	Control & Technology	DSP control Bidirectional Inverter with MPPT Solar Controller					
<b>HYBRID SYSTEM</b>	Inverter	1000W	2000W	3000W	3000W	5000W	6000W
	Battery storage	100-250Ah	200-500Ah	300-1000Ah	300-1000Ah	500-2000Ah	500-2000Ah
	PV System	1200Wp	1200Wp	1200Wp	3000Wp	6000Wp	6000Wp
	Grid Line or Generator	3kVA	5kVA	5kVA	5kVA	10kVA	12kVA
<b>BATTERY SYSTEM</b>	Normal voltage	24 Vdc			48 Vdc		
	Voltage range	21-30 Vdc			42-60 Vdc		
	Discharge current(Max)	40A dc	95 A dc	142 A dc	65 A dc	119 A dc	142 A dc
	Low battery cut off	20.0Vdc +/-0.6			40.0Vdc +/-0.3		
	High battery alarm	32.0Vdc +/-0.6			64.0Vdc +/- 1.2		
<b>INVERTER SYSTEM</b>	Power continuous	1000W	2000W	3000W	3000W	5000W	6000W
	Output voltage	Battery mode: 220 Vac $\pm$ 1%, AC mode 198-245 Vac( 265 Vac option )					
	Frequency	Battery mode: 50 Hz $\pm$ 0.1%, AC mode: 45-50 Hz					
	Total harmonic distortion	THDv <3% Linear load, <5% Non linear load					
	Wave form	Pure Sine Wave					
	Transfer time	2-4 ms(Battery mode to AC mode)					
	Overload capability	110-120% load for 2min, 140-150% load for 60sec., >150% load 20secs. then automatic shutdown					
	Inverter efficiency(Peak)	$\geq$ 88%			$\geq$ 90%		
ECO mode	>95%						
<b>AC INPUT SYSTEM</b>	Voltage	220/230Vac					
	Frequency	50/60Hz(Auto sensing) 40-70Hz					
<b>AC CHARGER SYSTEM</b>	Voltage range	155-280 Vac					
	Float voltage charge	27.0-27.6 Vdc			54.0-55.2 Vdc		
	Boost voltage charge	28.4-29.0 Vdc			56.8-58.0 Vdc		
	Charging current(Max)	10A	30A	45A	35A	40A	50A
<b>PROTECTION</b>	System	Over current, Overload, Short circuit, Over temperature, Under/Over voltage, Low/High battery voltage					
	Input & Output breaker	15/10A	20/15A	30A/15A	40A/20A	40A/25A	40A/30A
	IP level	IP20					
<b>SOLAR CONTROLLER SYSTEM</b>	Max.open circuit voltage (Voc)	37Vdc			75 Vdc		
	PWM voltage range(Vmp)	30 - 37Vdc			60 -75Vdc		
	Max.charge current(A)	40A			60A	120A	
<b>LCD DISPLAY &amp; AUDIBLE ALARM</b>	Graphic /Characters	Input voltage, Output voltage, Charger, Battery voltage, Output power, Load, Temperature and Solar inverter mode					
	Alarm	Low battery, Overload, Short circuit and Over temperature					
<b>ENVIRONMENT</b>	Temperature	0 - 50°C					
	Relative humidity	0 - 95%(Non-condensing)					
<b>PHYSICAL (Wall mounted)</b>	Dimension WxDxH(mm.)	277x460x192			372x597x312		
	Weight (kg)	18	23	27	40	49	49

\*Product specification are subject to change without further notice.

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