

SUN SBP Series

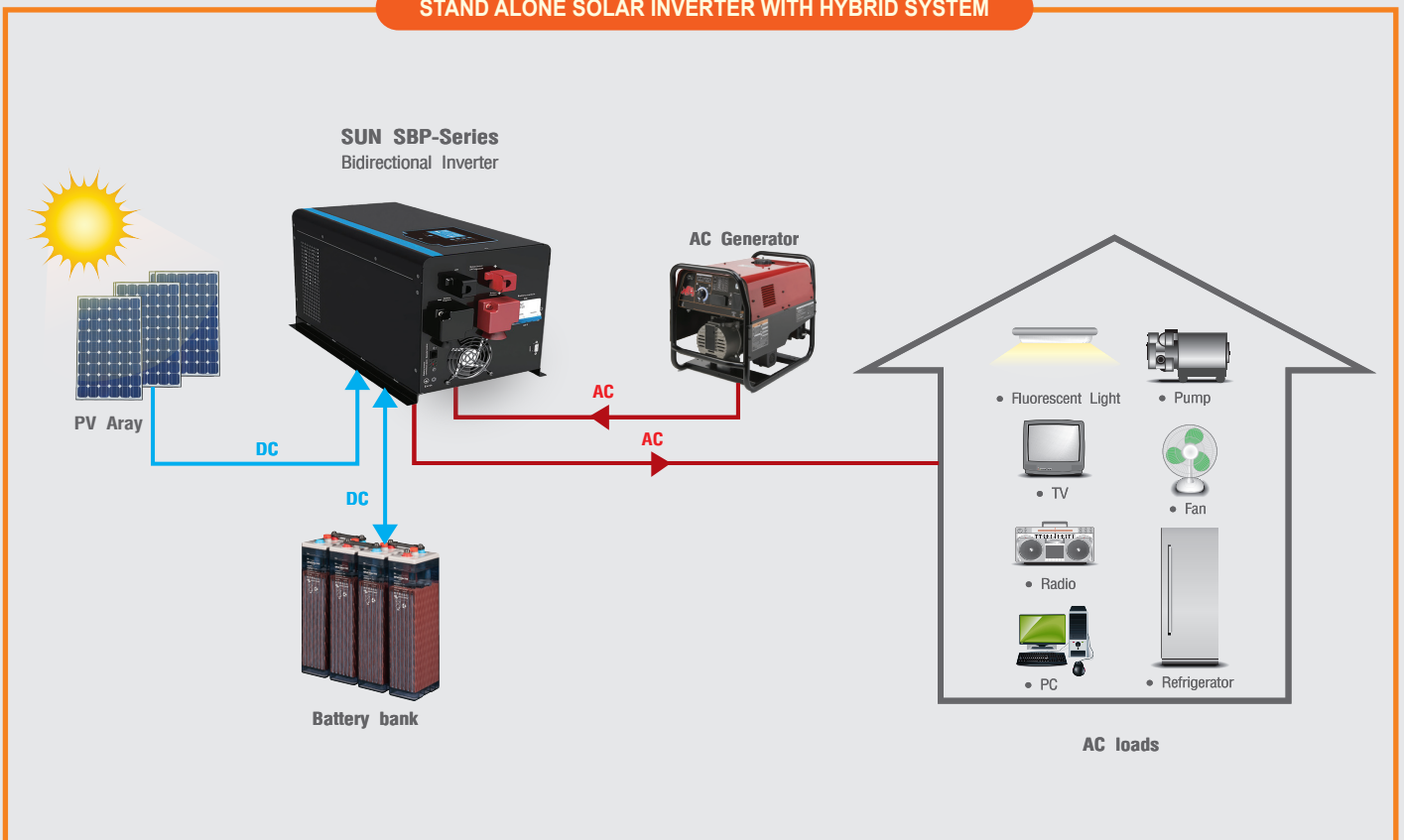
DSP BIDIRECTIONAL INVERTER WITH MPPT SOLAR CONTROLLER

Features:

- Advanced DSP digital Signal Processing control technology.
- Single Phase Inverter(1Phase in/ out)
- Bidirectional inverter built in output isolated transformer
- Built in MPPT solar charge controller(PWM option)
- Pure sine wave THDv <3%(Linear load)
- High efficiency inverter ≥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.
- System setting %DOD, %SOC, SCG, AC chr. and Low batt. alarm.
- Intelligent battery management IBM(Optional)
- Operated function set: Solar mode and AC mode(EPS)
- 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-2024	SBP-3024	SBP-2048	SBP-3548	SBP-5048	SBP-6048
SYSTEM	Application	Small Island, Resort, Mountain village, Home					
	Control & Technology	DSP control Bidirectional Inverter with MPPT Solar Controller					
HYBRID SYSTEM	Inverter	2000W	3000W	2000W	3500W	5000W	6000W
	Battery storage	100-250Ah	200-500Ah	300-1000Ah	300-1000Ah	500-2000Ah	500-2000Ah
	PV System	1200Wp	1200Wp	1200Wp	3500Wp	6000Wp	6000Wp
	Grid Line or Generator	3kVA	5kVA	5kVA	5kVA	10kVA	12kVA
BATTERY SYSTEM	Normal voltage	24 Vdc			48 Vdc		
	Voltage range	21-30 Vdc			42-60 Vdc		
	Discharge current(Max)	80Adc	125 Adc	40 Adc	65 Adc	119 Adc	142 Adc
	Low battery cut off	20.0Vdc +/-0.6			40.0Vdc +/-0.3		
	High battery alarm	32.0Vdc +/-0.6			64.0Vdc +/- 1.2		
INVERTER SYSTEM	Power continuous	2000W	3000W	2000W	3500W	5000W	6000W
	Output voltage	Battery mode: 220 Vac \pm 1%, AC mode 220 \pm 10% 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					
	Output Wave form	Pure Sine Wave					
	Transfer time	2-4 ms(Battery mode to AC mode)					
	Overload capability	110-120% load for 3min, 140-150% load for 60sec., >150% load 20secs. then automatic shutdown					
	Inverter efficiency(Peak)	\geq 85%		\geq 90%		\geq 85%	
ECO mode	\geq 98%						
AC INPUT SYSTEM	Voltage	220/230Vac -30%, +25%					
	Frequency	50/60Hz \pm 10%(Auto sensing) 45-65Hz					
AC CHARGER SYSTEM	Voltage range	165-280 Vac 50Hz					
	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
PROTECTION	System	Over current, Overload, Short circuit, Over temperature, Under/Over voltage, Low/High battery voltage					
	Input & Output breaker	15/10A	20/15A	15A/10A	20A/15A	40A/25A	40A/30A
	IP level	IP20					
SOLAR CONTROLLER SYSTEM	Max.open circuit voltage (Voc)	145 Vdc(max)					
	MPPT voltage range(Vmp)	32 - 145Vdc			64 -145Vdc		
	Max.charge current(A)	60A	60A	60A	60A	60A	60A
	PV Power	3200W					
LCD DISPLAY & AUDIBLE ALARM	Graphic /Characters	Input voltage, Output voltage, Charger, Battery level / voltage, Output power, Load level, PV Voltage, PV Current, Temperature and Solar inverter mode and System fault					
	Alarm	Low battery, Overload, Short circuit, Over temperature and System fault					
ENVIRONMENT	Temperature	0 - 50°C					
	Relative humidity	0 - 95%(Non-condensing)					
PHYSICAL (Wall mounted)	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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