

SUN SBP-II Series

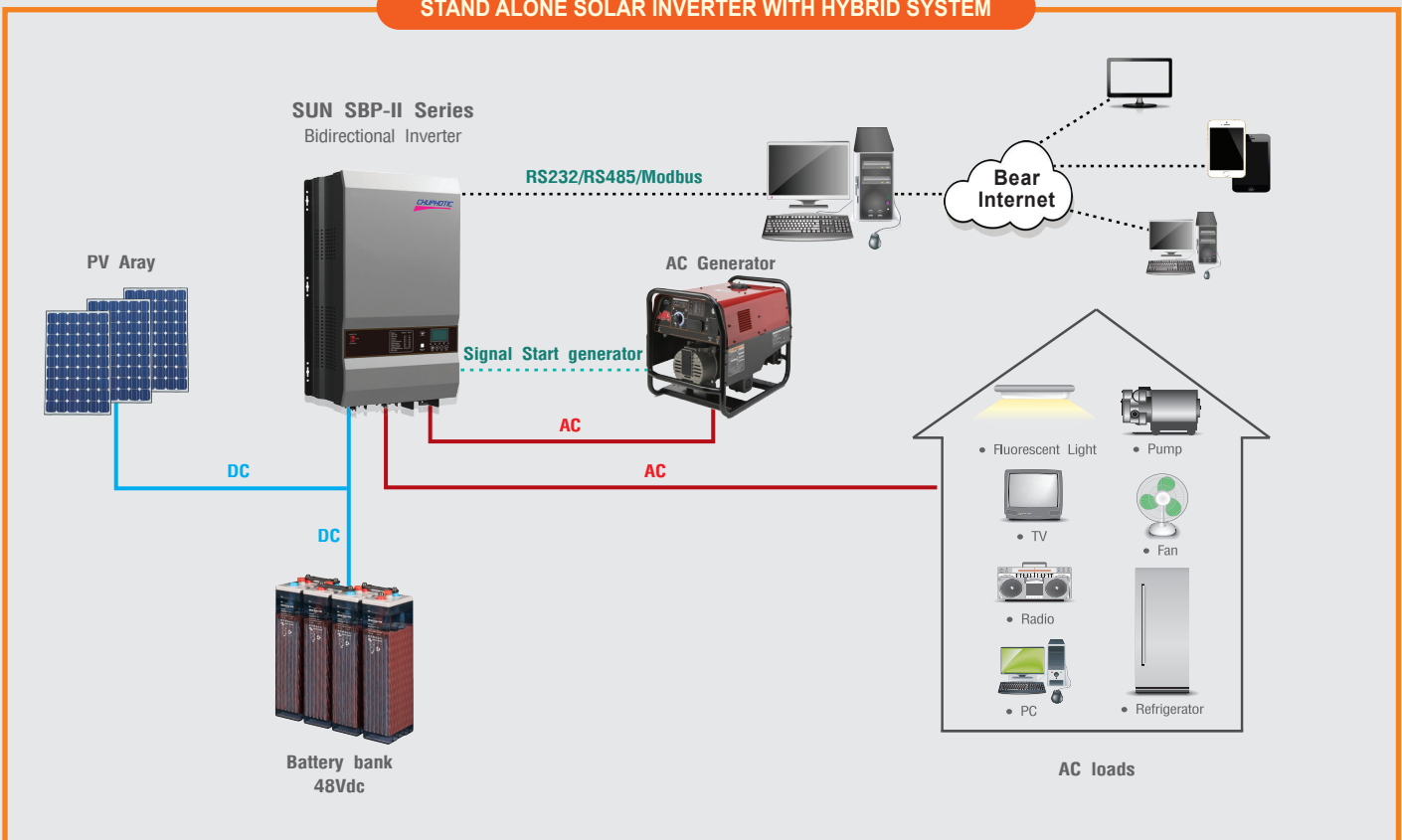
DSP BIDIRECTIONAL INVERTER WITH MPPT SOLAR CONTROLLER

Features:

- Advanced DSP digital control technology.
- Bidirectional inverter built in output isolated transformer.
- Built in MPPT solar controller 1600Wp, 3200Wp and 6400Wp.
- MPPT efficiency max 98%.
- 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.
- LED & LCD display friendly.
- Standby low power consumption
- Fast charging to provide quick and safe for charge battery.
- Intelligent battery management IBM(Option)
- DC Start & Automatic self-diagnostic function.
- Automatically signal to start generator.
- Communication interface through to RS232, RS485/Modbus and Dry contact.
- ISO 9001:2008 and ISO14001:2004 certified manufacturer.



STAND ALONE SOLAR INVERTER WITH HYBRID SYSTEM



SUN SBP-II Series

DSP BIDIRECTIONAL INVERTER WITH MPPT SOLAR CONTROLLER

Model		SBP-4048II	SBP-5048II	SBP-6048II	SBP-8048II	SBP-11048II	SBP-11248II
SYSTEM	Application	Small Island, Resort, Mountain village, Home					
	Control & Technology	DSP control Bidirectional Inverter with MPPT Solar Controller					
HYBRID SYSTEM	Inverter	4000W	5000W	6000W	8000W	10000W	12000W
	Battery storage	400-800Ah	500-1000Ah	500-1000Ah	600-1200Ah	600-1200Ah	600-1200Ah
	PV System	3200Wp	3200Wp	3200Wp	6400Wp	6400Wp	6400Wp
	Grid Line or Generator	10kVA	10kVA	10kVA	10kVA	15kVA	15kVA
BATTERY SYSTEM	Normal voltage	48 Vdc					
	Voltage range	42-60 Vdc					
	Discharge current(Max)	80 Adc	100 Adc	125 Adc	165 Adc	200 Adc	250 Adc
	Low battery cut off	40.0Vdc +/- 0.3					
	High battery alarm	64.0Vdc +/- 1.2					
INVERTER SYSTEM	Power continuous	4000W	5000W	6000W	8000W	10000W	12000W
	Output voltage	Battery mode: 220 Vac \pm 1%, AC mode 198-265 Vac					
	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%						
AC INPUT SYSTEM	Voltage	220/230Vac					
	Frequency	50/60Hz (Auto sensing) 40-70Hz					
AC CHARGER SYSTEM	Voltage range	155-280 Vac					
	Float voltage charge	54.0-55.2 Vdc					
	Boost voltage charge	56.8-58.0 Vdc					
	Charging current(Max)	30A	30A	30A	40A	50A	60A
PROTECTION	System	Over current, Overload, Short circuit, Over temperature and Under/Over battery voltage					
	Input & Output breaker	40A	40A	40A	80A	80A	80A
	IP level	IP20					
SOLAR CONTROLLER SYSTEM	Max. open circuit voltage (Voc)	145Vdc					
	MPPT voltage range (Vmp)	64 -72Vdc					
	Max. charge current (A)	60A			120A		
LCD DISPLAY & AUDIBLE ALARM	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					
ENVIRONMENT	Temperature	0 - 45°C					
	Relative humidity	0 - 95% (Non-condensing)					
PHYSICAL (Wall mounted)	Dimension WxDxH (mm.)	343x700x215			410x607x215		
	Weight (kg)	29	40	50	72	78	78

*Product specification are subject to change without further notice.

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