

SUN HSB Series

Smart Bidirectional Solar Inverter with Hybrid System

Product introduction

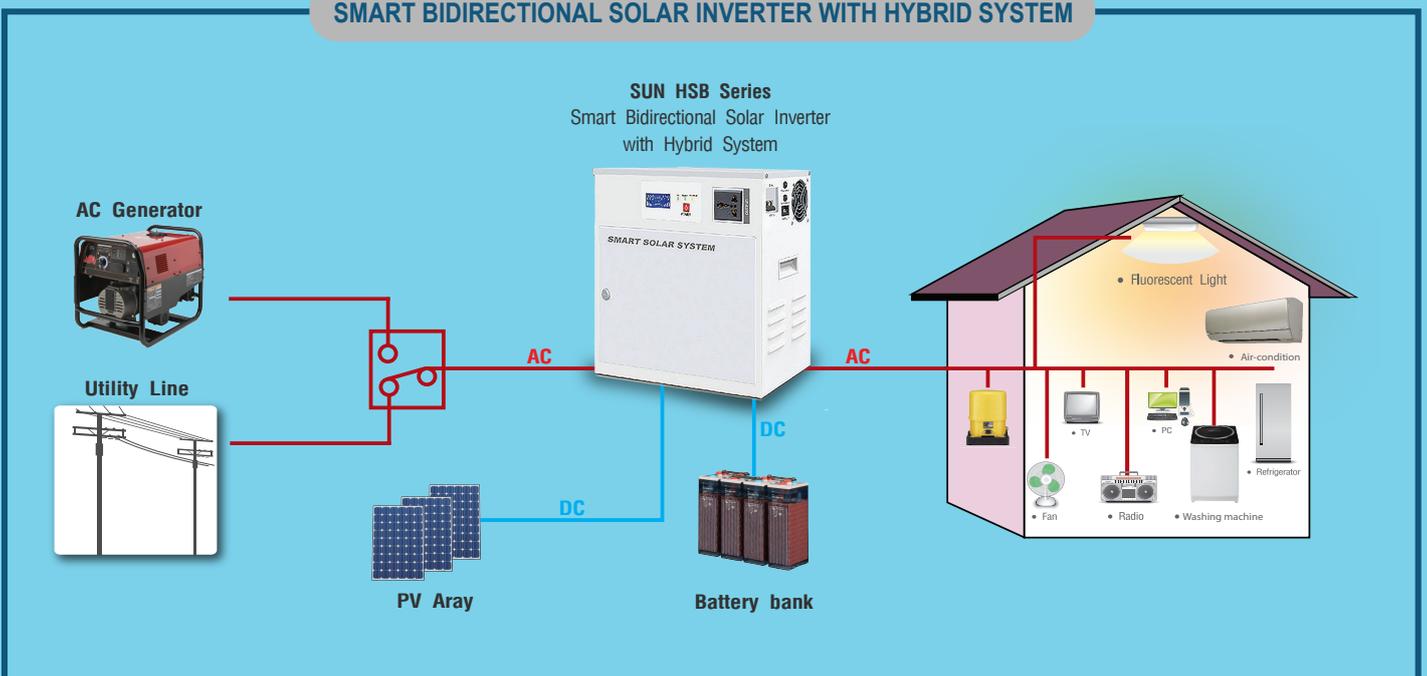
- Microprocessor Control Technology
- Low frequency Inverter pure sine wave with AC charging
- Built-in output isolated transformer
- Stable output voltage and frequency
- High efficiency inverter peak >85%
- PWM solar charge controller
- Built-in Battery DC power system
- Friendly LCD display
- Full protection for overload, input under / over voltage, short circuit and over temperature
- Cooling fans with automatic speed controller
- Automatic low battery shutdown to protect battery
- Reverse polarity protection
- ISO 9001 and ISO 14001 certified factory



Application

- Off-grid solar photovoltaic system applicable to areas without mains or with abundant solar energy
- solar hybrid photovoltaic system which poses automatic recognition intelligent switchover function applicable to areas where electricity bills are expensive or environmental protection area since this system can transfer solar energy into power efficiency and save mains, like, household solar / wind power system, street lame solar / wind power system etc.

SMART BIDIRECTIONAL SOLAR INVERTER WITH HYBRID SYSTEM



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SMART BIDIRECTIONAL SOLAR INVERTER WITH HYBRID SYSTEM

Model	HSB-300	HSB500	HSB600	HSB1000	
Rated power	300W	500W	600W	1000W	
Storage battery : Lead-acid cell or gel battery	12V (optional : 24V)				
Specification of charging					
Charging mode		PV charging and mains charging			
Solar controller:	voltage	12V (optional: 24V)			
	Current	30A (max) (depends on the power for solar panels)			
	PV maximum voltage	12V system (optional: 24V system) 25V			
Hybrid charging		PV charging current: when $I > 25A$, AC charging current is off PV charging current: when $3 < I \leq 15A$, AC charging current is 5A PV charging current: when $I \leq 3A$, AC charging current is 10A			
DC output system					
Charging port / USB		5A/12A (total) / 2units			
Output port of DC		12/1.5A / 3units			
AC mode					
Input voltage		145-275VAC			
Input frequency		48-54Hz (50Hz) / Same as AC			
Output voltage		200-240VAC			
Short circuit		Breaker			
Inverter mode					
Output voltage		220VAC \pm 5%			
Output frequency		50 \pm 1% Hz (Auto detection)			
Output P.F		Pure sine wave			
Output wave form		Typical 2-6ms, 10ms max			
Transfer time		110% Shut down within 60 sec.			
Overload capability		120% Shut down within 5 sec.			
Short circuit		20ms system Shut down automatically			
Priority principle of mains and inversion		Intelligent and automatic recognition			
Protection		Protection of output overload, output short circuit, input over voltage, input under voltage and over-temperature			
Specifications of the overall unit					
Dimension (mm)		455*250*400			
Net weight (KG)		11	12	14	16
Gross weight (KG)		12.5	13.5	16	18.5
Display	Display mode	LCD + LED			
	Display information	LCD: working and protection status of inverter, charging status of storage battery LED: indication of working status and PV charging			
ENVIRONMENT					
ENVIRONMENT		Indoor, or outdoor with waterproof measures			
Environment of performance		Temperature 0°C - 40° C, / Humidity 20% - 90%, non condensing			
Noise Level		\leq 40dB(1m)			

*All Specification subject to Change without notice
*Customer-made specification are acceptable

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