

SNS Series Brief

SNS series solar inverter's charging efficiency increase by 30%~60% than traditional controller. This inverter has system automatic identification, three-stage charging mode, can charge variety of battery, intelligent control discharging mode, RS232 communication etc advantages. This inverter can provide reliable sine wave power to the important electronic device, widely used in commerce, home and workstation. It is suitable for all kinds of loads, like stem ship, heavy truck, industrial device, air-conditioner, TV, POS systems, refrigerator, washing machine, PC and power tools (Optional 1KW to 6KW). SNS series can start a larger motor load with its high overload capacity. Once started, all inverter function will be completely automatic. This inverter is more suitable for home and special environment, it can connect inductive load. This series inverter characteristic is with stable performance, large charging current, high charging efficiency, it can charge battery full quickly. Output wave is true pure sine wave.

SNS Series Specification

Series (SNS)	Model								
	1012	1024	2012	2024	3024	3048	5048	6048	
	1000W	1000W	2000W	2000W	3000W	3000W	5000W	6000W	
	DC12V	DC24V	DC12V	DC24V	DC24V	DC48V	DC48V	DC48V	
Utility Pattern Specification	Input Wave Form	Sine wave (Utility or generator)							
	Nominal Voltage	230VAC							
	Low Voltage Trip	184VAC±4%							
	Low Voltage Reengage	194VAC±4%							
	High Voltage Trip	253VAC±4%							
	High Voltage Reengage	243VAC±4%							
	Max. AC Input Voltage	270Vrms							
	Nominal Input Frequency	50Hz/ 60Hz (Auto detect)							
	Low Frequency Reengage Frequency	58±0.3Hz (60Hz); 48±0.3Hz (50Hz);							
	Low Frequency Trip Frequency	57±0.3Hz (60Hz); 47±0.3Hz (50Hz);							
	High Frequency Reengage Frequency	64±0.3Hz (60Hz); 54±0.3Hz (50Hz);							
	High Frequency Trip Frequency	65±0.3Hz (60Hz); 55±0.3Hz (50Hz);							
	Output Wave Form	Bypass mode, same as input							
	Overload Protection	Circuit Breaker							
	Short Circuit	Circuit Breaker							
	Efficiency	→95%							
	Transfer Switch Current	30A							
Transfer Time (Ac to Dc)	10ms								
Transfer Time (Dc to Ac)	10ms								
Bypass without Battery Connected	yes								
Max. Bypass Current	30A								

Main Features

- Three appearance design: Tower Type, Optional Wall-Mounted or Rack-Mounted type.
- Optional add wind energy Input interface.
- Quiet, high efficient operation.
- Front panel with intuitive LED Status Indicator and humanized LCD Display.
- Can connect lead-acid battery, gel battery, or AGM batteries.
- Three-stage charging (large current charging , Absorption and floating charge) increase the performance.
- 30A/60A automatic three-stage battery charger.
- Backup power supply with quick switch (grid tray to battery and grid tray to battery grid tray).
- Lower idle current (←10W), can compatible with motor, can save energy.
- Perfect protection circuits: low voltage, high voltage, overload, over temperature protection circuit.
- A lasting life under extreme environmental conditions.
- High overload capacity can burden bigger loads, under the condition of loads, can stably handle the powder coating of the circuit boards, make them have anti-corrosion function and improve service life and reliability.
- 12V/24V/48VDC system, Max. PV input is 100VDC.

Series (SNS)	Model							
	1012	1024	2012	2024	3024	3048	5048	6048
Output wave form	Sine wave							
Nominal Output Capacity (VA)	1000		2000		3000		5000	6000
Nominal Output Power (W)	1000		2000		3000		5000	6000
Power Factor	0.9~1.0							
Nominal Output Voltage (V)	230Vac							
Nominal Output Frequency (Hz)	50Hz ± 0.3Hz							
Automatic tracking main frequency(Hz)	Yes (start from the first connection), 50Hz @48-54Hz, 60Hz @58-64Hz							
Output Voltage Regulation	±10% rms							
Efficiency	→80%							
Overload Protection (SMPS load)	(110%← Load ←125%) ±10%: No Output after 15mins, (125%← Load ←150%) ±10%: No Output after 10S, Load→150% ±10%: No Output after 20S							
Surge ratings (10s)	3000VA		6000VA		9000VA		15000VA	18000VA
Starting Motor	1HP		2HP		3HP		5HP	6HP
Short Circuit protection	Current limit (fault after 10s)							
Circuit breaker Size	30A		30A		30A		50A	50A
Nominal DC Input Voltage	12V/24V/48V							
Minimum DC Voltage	10V/20V/40V							
Low Voltage Alarm	10.5Vdc±0.3Vdc (12V) / 21.0Vdc±0.6Vdc (24V) / 42.0Vdc±1.2Vdc (48V)							
Low Voltage Trip	10.0Vdc±0.3Vdc (12V) /20.0Vdc±0.6Vdc (24V) /40.0Vdc±1.2Vdc (48V)							
High Voltage Alarm	16.0Vdc±0.3Vdc (12V) /32.0Vdc±0.6Vdc (24V) /64.0Vdc±1.2Vdc (48V)							
High Voltage reengage	15.5Vdc±0.3Vdc (12V) /31.0Vdc±0.6Vdc (12V) /62.0Vdc±1.2Vdc (48V)							
Power Saver	Load ≤ 25W							
PV Input Specifications	PV Input Working Voltage and Range	12V system	DC14V~DC100V					
		24V system	DC30~DC100V					
		48V system	DC60~DC100V					
	Low Voltage Input Protection Point	12V system	DC14V					
		24V system	DC30V					
		48V system	DC60V					
	Low Voltage Input Recovery Point (Start charging voltage point)	12V system	DC18V					
		24V system	DC34V					
	Input Overvoltage Protection Point	12V system	DC110					
		48V system	DC65V					
Rated Output Current	12V/24V/48V system		15A	20A	25A	30A	40A	
Current-limiting Protection	12V/24V/48V system		20A	25A	30A	35A	45A	
Temperature Factor	12V/24V/48V system		±0.02%/ °C					
Temperature Compensation	12V/24V/48V system		14.2V- (The highest temperature-25 °C) *0.3					
Output Ripples (peak)	12V/24V/48V system		200mV					
Output Discharge Characteristics								
Output Voltage				According to battery voltage				
Low Voltage output Protection Point				Default value is 10.5V, Reengage is 11V, can set				
Rated Output Current				30A				