SAINTISH

High pressure reverse control all-in-one machine

SNK3000-3/SNK5000-3



Product overview

The all-in-one hybrid solar charge inverter, which integrates solar energy storage &means charging energy storage and AC sine wave output. Thanks to DSP control and advanced controlalgorithm, it has high response speed, high reliability and high industrial standard.

Performance characteristics

·Adopt full digital voltage and current double closed-loop control and advanced SPWM technology to output pure sine wave.

·Two output modes, i.e. mains bypass and inverter output can achieve uninterrupted power supply function.

·Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.

Advanced MPPT technology, with e ciency up to 99.9%.

· Wide MPPT voltage range.

·With function of activating lithium battery with solar energy and AC mains power, it supports connection of lead-acid battery and lithium battery. ·LCD screen design and 3 LED indicator lights dynamically display system

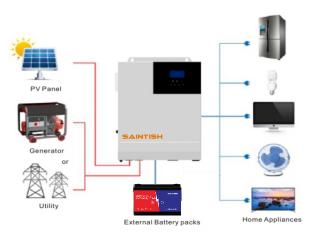
data andoperation states.

·ON/OFF rocker switch can control AC output.

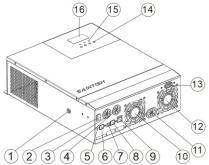
·With power saving mode function, it can reduce no-load loss. Intelligent adjustable speed fan is adopted for e cient heat dissipation and extended system life.

 $\cdot Possessing \ multiple \ protection \ functions \ and \ 360^{\circ} \ comprehensive \ protection.$ $\cdot Possessing \ complete \ short \ circuit \ protection, \ overvoltage \ and \ undervoltage$ protection, overload protection, back lling protection, etc.

Product connection diagram



Appearance



1	Overload protector	9	Dry contact port
2	ON/OFF rocker switch	100	Cooling fan
3	AC input port	11)	Battery port
4	AC output port	12	Cooling fan
(5)	Grounding screw hold	13	PV port
6	RS485-2 communication port	14	Touch the key lightly
7	USB communication port	15	Indicator light
8	RS485-1 communication port	16	LCD screen

Technical parameters >>>

Model	SNK3000-3	SNK5000-3	
AC mode			
Rated input voltage	220Vac,	/230Vac	
Input voltage range	(170Vac~280Vac) ±2%; (90Vac-280Vac) ±2%		
Frequency	50Hz/ 60Hz (auto-sensing)		
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);		
Overload/short circuit protection	Breaker		
Efficiency	>95%		
Conversion time (bypass and inverter)	10ms (Typical value)		
AC reverse protection	yes		
Maximum bypass overload current	40A		
Inverting mode			
Output voltage waveform	Pure sine wave		
Rated output power(VA)	3000 (2600/2700/3000) 5000(4350/4500/4800/5000)		
Rated output power(W)	3000 (2600/2700/3000)	5000(4350/4500/4800/5000)	
Power factor	1	i '	
Rated output voltage (Vac)	230Vac (200/208/220/240Vac settable)		
Output voltage error	±5%		
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Efficiency	>90%		
Overload protection	turn off the outpu (125% <load<150%) ±1<br="">turn off the outpu</load<150%)>	0%: reporting error and t after 10 seconds; orting error and turn off	
Peak power	6000VA	10000VA	
Loaded motor capacity	2HP	4HP	
Output short-circuit protection	Brea	aker	
Specification of bypass breaker	40A		
Rated battery input voltage	48V (minimum s	tart voltage 44V)	
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/c	overvoltage alarm/overvoltage restorationsettable LCD screen)	
Power saving mode	Load ≤50W		
AC charge			
Battery type	Lead acid or li	thium battery	
Maximum charge current	60A		
Charge current error	± 5Adc		
Charge voltage range	40~60Vdc		
Short-circuit protection	Breaker and blown fuse		
Breaker specification	40A		
Overcharge protection	Turn off charge after 1min alarm		
Solar charge			
Maximum PV opencircuit voltage	500	Vdc	
PV operation voltage range	120-500Vdc		
MPPT voltage range	120-4	50Vdc	
Battery voltage range	40-6	0Vdc	
Maximum output power	4200W	5000W	
Charge current range of solar energy (settable)	0-60A	0-80A	
Charge short-circuit protection	Blown	n fuse	
Wiring protection	Inverse wiring protection		
Authentication specification			
Specification authentication	CE(IEC62109)、RoHs		
EMC authentication grade	EN61000		
Operation temperature range	-15°C to 55°C		
Storage temperature range	-25°C ~ 60°C		
Humidity range	5% to 95% (Conformal coating protection)		
Noise	≤60dB		
Thermal dissipation	Forced cooling with adjustable air speed		
Communication interface	USB/RS485 (WiFi/GPRS)/dry node control		
Dimension (L*W*D)	426mm*322mm*126mm		
Weight (kg)	10.9		