

All-in-one solar charger inverter

SR-HF2420U60-100/SR-HF2430U60-100



Product overview

HF series is a new 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

·Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sine wave.

·Two output modes: mains bypass and inverter output; uninterrupted power supply. ·Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.

·Advanced MPPT technology with an efficiency of 99.9%.

 With the charging requirement (voltage, current, mode) settings, and suitable for various types of energy storage batteries.

·ON/OFF rocker switch for AC output control.

 $\cdot \text{Power saving mode available to reduce no-load loss.}$

Intelligent variable speed fan to efficiently dissipate heat and extend system life.
 Lithium battery activation design, allowing access of lead-acid battery and lithium battery.

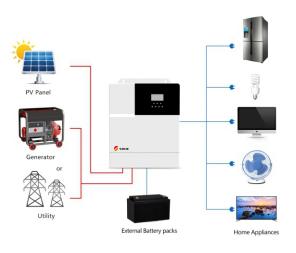
·360 ° all-round protection with a number of protection functions. Such as overload, short circuit and over current.

·Supply of a variety of user-friendly communication modules, such as RS485(GPRS, WiFi),USB etc.,

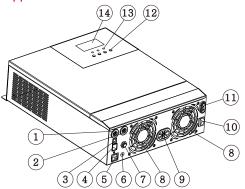
and suitable for computer, mobile phones, Internet monitoring as well as remote operations.

· Lithium battey can be activated by both mains and PV.

Product connection diagram



Appearance



1	AC input port	8	Cooling fan
2	AC output port	9	Battery port
3	USB communication port	10	ON/OFF rocker switch
4	RS485 communication port	111	PV port
(5)	Dry node port	12	Touch button
6	Grounding screw hole	13	LED Indicator
7	AC input Overload protector	149	LCD screen

Technical parameters >>>

Models	HF2420U60-100	HF2430U60-100		
AC mode				
Rated input voltage	110/1	20Vac		
nput voltage range	(90Vac-140Vac)±2%			
requency	50Hz/60Hz (Auto detection)			
requency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz);			
Overload/short circuit protection	Circuit breaker			
Efficiency	>95%			
Conversion time (bypass and inverter)	10ms (typical)			
AC reverse protection	Available			
Maximum bypass overload current	40A			
Inverter mode	40	/A		
Output voltage waveform	Puro cin	no waye		
	Pure sine wave 2000 3000			
Rated output power (VA)				
Rated output power (W)	2000	3000		
Power factor	1			
Rated output voltage (Vac)	120Vac			
Output voltage error	±5%			
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz			
Efficiency	>92	2%		
Overload protection	(102% < load <110%) \pm 10%: report error (110% < load < 125%) \pm 10%: report error Load >125% \pm 10%: report error and turn (r and turn off the output after 10 seconds;		
Peak power	4000	6000		
oaded motor capability	1HP	2HP		
Output short circuit protection	Circuit I	breaker		
Bypass breaker specifications	40			
Rated battery input voltage				
Battery voltage range	24V (Minimum starting voltage 22V) 20.0Vdc \sim 33Vdc \pm 0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery settable on LCD screen			
Power saving mode	Load :			
AC charging	Load s	ZJUW		
Battery type	Lead acid or li	thium battery		
Maximum charge current	40A	40A		
Charge current error	± 5/	Adc		
Charge voltage range	20.0Vdc~33Vdc			
Short circuit protection				
Short circuit protection Circuit breaker and blown fuse Circuit breaker specifications 40A				
Overcharge protection	Alarm and turn off charging after 1 minute			
	Alaini and turn on charging after 1 minute			
PV charging	4.00			
Maximum PV open circuit voltage	100Vdc 30-100Vdc			
PV operating voltage range				
MPPT voltage range	30-85Vdc			
Battery voltage range	20-33Vdc			
Maximum output power		1400W		
PV charging current range (can be set)	0-60A			
Charging short circuit protection	Blown fuse			
Wiring protection	Reverse polarity protection			
Certified specifications				
Certification	CE(IEC 62109-1)/CETL(UL 1741/CSA C22.2 NO.107.1)			
EMC certification level	EN61000, C2			
Operating temperature range	-15°C to 55°C			
Storage temperature range	-25°C ~ 60°C			
Humidity range	5% to 95% (Conformal coating protection)			
Noise	≤60			
		Forced air cooling, variable speed of fan		
Heat dissipation	•			
Communication interface Size (L*W*D)		RS)/Dry node control		