



High pressure reverse control all-in-one machine

SR-HF4835U60-H/SR-HF4850U80-H



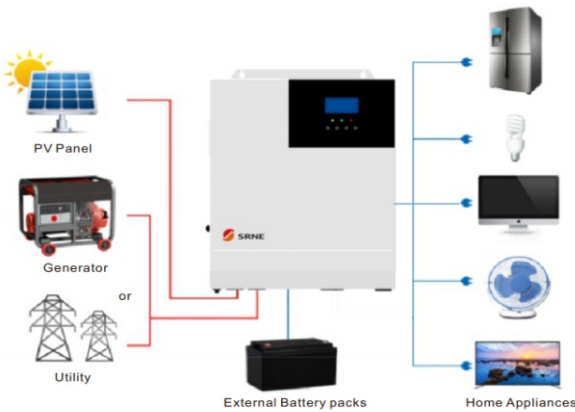
Product overview

HF48-H 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.

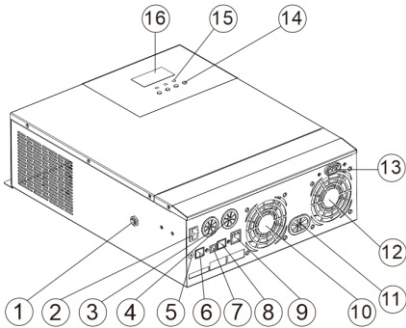
Performance characteristics

- 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 efficiency 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 efficient heat dissipation and extended system life.
- Possessing multiple protection functions and 360° comprehensive protection.
- Possessing complete short circuit protection, overvoltage and undervoltage protection, overload protection, back filling protection, etc.

Product connection diagram



Appearance



①	Overload protector	⑨	Dry contact port
②	ON/OFF rocker switch	⑩	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	HF4835U60-H		HF4850U80-H
AC mode			
Rated input voltage	110Vac/120Vac		
Input voltage range	(90Vac-140Vac) ±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	63A	
Inverting mode			
Output voltage waveform	Pure sine wave		
Rated output power(VA)	3500(2900/3000/3200)	5000(4100/4300/4500)	
Rated output power(W)	3500(2900/3000/3200)	5000(4100/4300/4500)	
Power factor	1		
Rated output voltage (Vac)	120Vac(100/105/110Vac settable)		
Output voltage error	±5%		
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Efficiency	>90%		
Overload protection	(102%<load<110%) ±10%: reporting error and turn off the output after 5 minutes; (110%<load<125%) ±10%: reporting error and turn off the output after 10 seconds; Load>125% ±10%: reporting error and turn off the output after 5 seconds;		
Peak power	7000VA	10000VA	
Loaded motor capacity	2HP	4HP	
Output short-circuit protection	Breaker		
Specification of bypass breaker	40A	63A	
Rated battery input voltage	48V (minimum start voltage 44V)		
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (undervoltage alarm/turnoff voltage/overvoltage alarm/overvoltage restoration...settable LCD screen)		
Power saving mode	Load ≤50W		
AC charge			
Battery type	Lead acid or lithium battery		
Maximum charge current	40A		
Charge current error	± 5Adc		
Charge voltage range	40~60Vdc		
Short-circuit protection	Breaker and blown fuse		
Breaker specification	40A	63A	
Overcharge protection	Turn off charge after 1min alarm		
Solar charge			
Maximum PV opencircuit voltage	450Vdc	500Vdc	
PV operation voltage range	120-450Vdc	120-500Vdc	
MPPT voltage range	120- 430Vdc	120-450Vdc	
Battery voltage range	40-60Vdc		
Maximum output power	4200W	5000W	
Charge current range of solar energy (settable)	0-60A	0-80A	
Charge short-circuit protection	Blown fuse		
Wiring protection	Inverse wiring protection		
Authentication specification			
Specification authentication	CE(IEC 62109-1)/CETL(UL 1741/CSA C22.2 NO.107.1)		
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	11.6	