SRNE

All-in-one solar charge inverter

SR-HF4830S60/SR-HF4840S60/SR-HF4850S80
SR-HF4825U60/SR-HF4830U60/SR-HF4835U80

Product Features:

- 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.
- 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, Bluetooth), CAN, USB etc., and suitable for computer, mobile phones, Internet monitoring as well as remote operations.

Technical parameters >>>

Models	HF4830S60	HF4840S60	HF4850S80	HF4825U60	HF4830U60	HF4835U80
AC mode						
Rated input voltage	220/230Vac			110/120Vac		
Input voltage range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%			(90Vac~140Vac) ±2%		
Frequency	50Hz/ 60Hz (Auto detection)					
Frequency 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						
Output voltage waveform	Pure sine wave					
Rated output power (VA)	3000	4000	5000	2500	3000	3500
Rated output power (W)	3000	4000	5000	2500	3000	3500
Power factor	1					
Rated output voltage (Vac)	230Vac			120Vac		
Output voltage error	±5%					
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz					
Efficiency	>90%					
Overload protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes;(125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds;Load >150% ±10%: report error and turn off the output after 5 seconds;			(102% < load <110%) ±10%: report error and turn off the output after 5 minutes;(110% < load < 125%) ± 10%: report error and turn off the output after 10 seconds;(Load >150% ±10%): report error and turn off the output after 5 seconds;		
Peak power	6000VA	8000VA	10000VA	5000VA	6000VA	7000VA
Loaded motor capability	2HP	3HP	4HP	1HP	1HP	2HP
Output short circuit protection	Circuit breaker					
Bypass breaker specifications	40A					
Rated battery input voltage	48V (Minimum starting voltage 44V)					
Battery voltage range	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)					
Power saving mode	Load ≤25W					
AC charging						
Battery type	Lead acid or lithium battery					
Maximum charge current	60A			30A		
Charge current error	± 5Adc					
Charge voltage range	40 –58Vdc			40 –60Vdc		
Short circuit protection	Circuit breaker and blown fuse					
Circuit breaker specifications	40A					
Overcharge protection	Alarm and turn off charging after 1 minute					
PV charging						
Maximum PV open circuit voltage	145Vdc					
PV operating voltage range	60-145Vdc					
MPPT voltage range	60-115Vdc					
Battery voltage range	40-60Vdc					
Maximum output power	3200W	4200W		3200W		4200W
PV charging current range (can be set)	0-60A	0-80A		0-60A		0-80A
Charging short circuit protection	Blown fuse					
Wiring protection	Reverse polarity protection					
Certified specifications						
Certification	CE(EN62040-1)					
EMC certification level	EN62040-2, 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	≤60dB					
Heat dissipation	Forced air cooling, variable speed of fan					
Communication interface	USB/RS485(Bluetooth/WiFi/GPRS)/Dry node control					
Size (L*W*D)	430mm*338mm*126mm					
Weight (kg)	10					