

## All-in-one solar charger inverter

### SR-HF4830S60-145



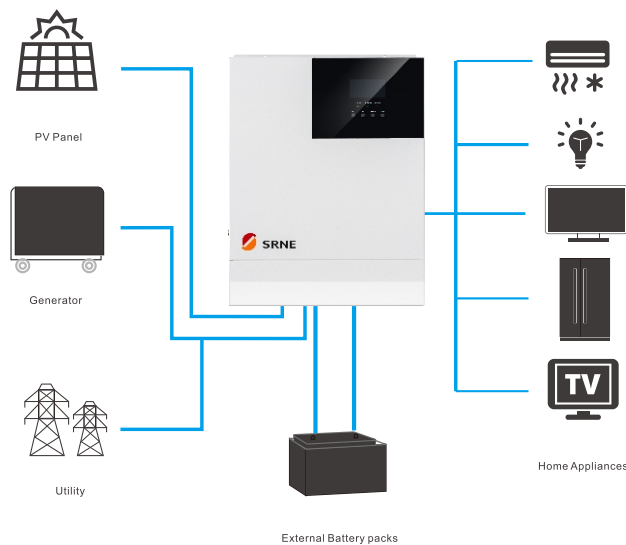
#### Product overview

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 control algorithm, it has high response speed, high reliability and high industrial standard.

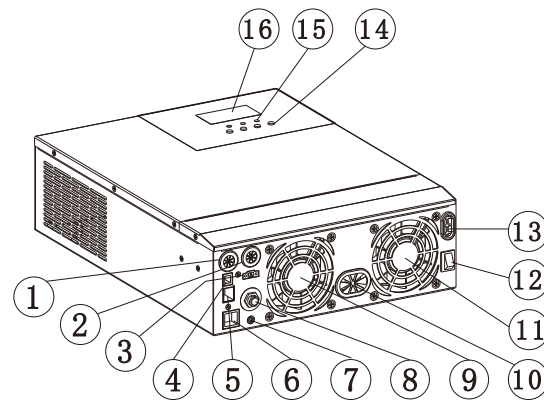
#### Performance characteristics

- 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 energystorage 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 overcurrent.
- 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.

#### Product connection diagram



#### Appearance



①	AC input port	⑨	Cooling fan
②	AC output port	⑩	Battery port
③	CAN communication port	⑪	Cooling fan
④	USB communication port	⑫	ON/OFF rocker switch
⑤	Rs485 communication port	⑬	PV port
⑥	Dry contact port	⑭	Touch button
⑦	Grounding screw hole	⑮	LED Indicator
⑧	Overload protector	⑯	LCD screen

#### Technical parameters >>>

Models	HF4830S60-145
<b>AC mode</b>	
Rated input voltage	220/230Vac
Input voltage range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±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	30A
<b>Inverter mode</b>	
Output voltage waveform	Pure sine wave
Rated output power (VA)	3300
Rated output power (W)	3300
Power factor	1
Rated output voltage (Vac)	230Vac
Output voltage error	±5%
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz
Maximum Efficiency	>92%
Overload protection	(110% < 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;
Peak power	6000VA
Loaded motor capability	2HP
Output short circuit protection	Circuit breaker
Bypass breaker specifications	30A
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 ≤50W
<b>AC charging</b>	
Battery type	Lead acid or lithium battery
Maximum charge current	60A
Charge voltage range	40 ~58Vdc
Short circuit protection	Circuit breaker and blown fuse
Circuit breaker specifications	30A
Overcharge protection	Alarm and turn off charging after 1 minute
<b>PV charging</b>	
Maximum PV open circuit voltage	145Vdc
PV operating voltage range	60-145Vdc
MPPT voltage range	60-115Vdc
Battery voltage range	40-60Vdc
Maximum input power	3400W
PV charging current range (can be set)	0-60A
Charging short circuit protection	Blown fuse
Wiring protection	Reverse polarity protection
<b>Certified specifications</b>	
Certification	CE(IEC 62109-1)
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	≤60dB
Heat dissipation	Forced air cooling, variable speed of fan
Communication interface	CAN/USB/RS485(WiFi/GPRS)/Dry node control
Size (L*W*D)	378mm*280mm*103mm
Weight (kg)	6.2