

All-in-one solar charger inverter

SR-HF4825U60/SR-HF4830U60/SR-HF4835U80



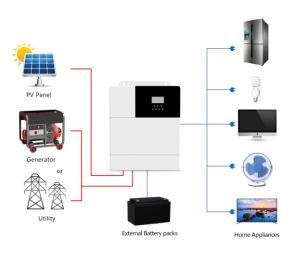
Product overview

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.

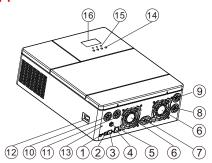
Performance characteristics

- · Full digital voltage and current double closed loop control, advanced SPWM technology, output of pure sinewave.
- · 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,
- 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	CAN communication port	9	Pv1 port	
2	USB communication port	10	AC input port	
3	RS485 communication port	11)	AC output port	
4	Dry node port	12	ON/OFF rocker switch	
(5)	Overload protector	13	Grounding screw hole	
6	Cooling fan	14	Touch button	
7	Battery port	15	Indicator	
8	Pv2 port	16	LCD screen	

Technical parameters >>>

Marcia M	Models	HF4825U60	HF4830U60	HF4835U80	
(1) (1)	AC mode				
Frequency SPITLY (PAID. Selection)	Rated input voltage	110/120Vac			
A	Input voltage range				
Overload protection Circuit breaker	Frequency		50Hz/ 60Hz (Auto detection)		
Conversion time (typasa and inventer)	Frequency Range				
Conversion time (typasa and inverter)	Overload/short circuit protection		Circuit breaker		
AC reverse protection	Efficiency		>95%		
Maximum bypass overload current Maximum bypass breakers perfect Maxi	Conversion time (bypass and inverter)		10ms (typical)		
Investor mode Pure sine wave Output voltage waveform Pure sine wave Rated output power (W) 2500 3000 3500 Rated output power (W) 2500 3000 3500 Power factor 1 1 1 Rated output voltage (Wa) 120 Vac 120 Vac 120 Vac Output voltage error 5 % 5 % Table 2 & 3 Hz 2 & 3 Hz 2 & 5 Hz 2 & 3 Hz 2 & 5 Hz	AC reverse protection				
Output voltage waveform Pure sine wave Nated output prover (VA) 2500 3000 3500 Power factor 1 1 Rated output voltage (Vac) 1200kc 150kc Output voltage vacy 55Hz±±0.3Hz±0.0H	Maximum bypass overload current		40A		
Rated output power (VA) 2500 3000 3500 Rated output power (W) 2500 3000 3500 Power factor 1 1 Rated output voltage (VA) 12070xc 1 Output frequeny range (Hz) \$500xc 550xc Output frequeny range (Hz) \$500xc 500xc Overload protection \$102% < load <110% 120% report error and turn off the output after 5 minutes (\$100% < load <125%) ±100x report error and turn off the output after 5 minutes (\$100% < load <125%) ±100x report error and turn off the output after 5 minutes (\$100% < load <125%) ±100x report error and turn off the output after 5 minutes (\$100% < load <125%) ±100x report error and turn off the output after 5 minutes (\$100% < load <110x / 120% < load <110x / 1	Inverter mode				
Rated output power (W) 2500 3000 3500 3500 3500 3500 70000 700000 100000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 1200000 12000000 120000000 12000000000 120000000000	Output voltage waveform		Pure sine wave		
Rated output voltage (Vac) 120	Rated output power (VA)	2500	3000	3500	
120Vac	Rated output power (W)	2500	3000	3500	
120Vac					
25% Couptut frequency range (Hz) SoHz ± 0.3Hz SoHz ± 0.3Hz					
Output frequency range (Hz) Softz ± 0.3Hz/sGHz ± 0.3Hz Softiciency Softz ± 0.3Hz/sGHz ± 0.3Hz Softz ± 0.3Hz S					
Overload protection \\ \text{					
Overload protection Circuit Sminutes(110% 100% report error and turn off the output after 5 minutes(110% 100% report error and turn off the output after 5 minutes(110% 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 5 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error and turn off the output after 6 seconds; 100% report error 100%			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Loaded motor capability 1HP 1HP 1HP 2HP Output short circuit protection 1Circuit breaker 1Sypass breaker specifications Rated battery input voltage 148V (Minimum starting voltage 148V (Minimum starting voltage 44V) 1Coad ±25W AC charging 1Coad ±25W AC charging 1Statery type 1Lead acid or lithium battery 1Stade 1Stade Current error 1Stade 1S	Overload protection	5 minutes;(110% < load < 125%) \pm 10%: report error and turn off the output after 10 seconds;(Load >150% \pm 10%): report error and turn off			
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 Lead acid of lithium battery Battery type Lead acid of lithium battery Maximum charge current 30A Charge voltage range 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 145Vdc PV operating voltage range 60-145Vdc MPPT voltage range 60-145Vdc MPPT voltage range 60-145Vdc MPPT voltage range 40-60Vdc Maximum output power 3200W 4200W PV charging current range (can be set) 0-60A 0-80A Charging stort circuit protection Reverse polarity protection Certification CE(EN62040-1) </td <td>Peak power</td> <td>5000VA</td> <td>6000VA</td> <td>7000VA</td>	Peak power	5000VA	6000VA	7000VA	
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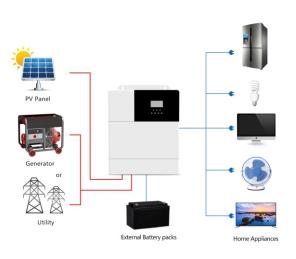
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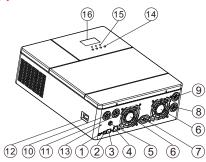
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 · Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
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1	CAN communication port	9	Pv1 port	
2	USB communication port	10	AC input port	
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6	Cooling fan	14)	Touch button	
7	Battery port	15)	Indicator	
8	Pv2 port	16	LCD screen	

Technical parameters >>>

Models	HF4830S60	HF4840S60	HF4850S80		
AC mode					
Rated input voltage	220/230Vac				
Input voltage range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%				
Frequency	50Hz/ 60Hz (Auto detection)				
Frequency Range	47±0.3H	z ~ 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		
Rated output power (W)	3000	4000	5000		
Power factor	3500	1	3000		
Rated output voltage (Vac)		230Vac			
Output voltage error		±5%			
		±576 50Hz ± 0.3Hz/60Hz ± 0.3Hz			
Output frequency range (Hz)					
Efficiency		>90%			
Overload protection	5 minutes;(12	<125%) $\pm 10\%$: report error and turn off the 5% < load < 150%) $\pm 10\%$: report error and 0 seconds;Load >150% $\pm 10\%$: report error are 5 seconds;	turn off the		
Peak power	6000VA	8000VA	10000VA		
Loaded motor capability	2HP	3HP	4HP		
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	oltage/overvoltage alarm /overvoltage reco	overy settable on LCD screen)		
Power saving mode		Load ≤25W			
AC charging					
Battery type		Lead acid or lithium battery			
Maximum charge current		60A			
Charge current error		± 5Adc			
Charge voltage range		40 –58Vdc			
Short circuit protection		Circuit breaker and blown fuse			
Circuit breaker specifications		40A			
Overcharge protection		Alarm and turn off charging after 1 minute			
PV charging		1 2 2 2 2 2 2.			
Maximum PV open circuit voltage		145Vdc			
PV operating voltage range		60-145Vdc			
MPPT voltage range					
Battery voltage range	60-115Vdc				
Maximum output power	220	40-60Vdc 3200W 4200W			
PV charging current range (can be set)					
	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				