Solar inverter charger AC 220/230V 3KW 12/24V Max solar input 100V,80A AC/ 60A DC,50Hz/ 60Hz



Product overview

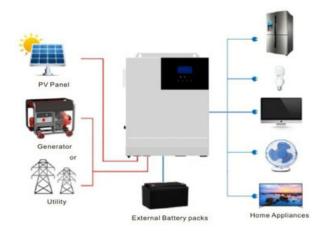
HF48-H series is a new all-in-one hybrid solar charge inverter, which integrates solar energy storage &means charging energy storage and AC sine wave output. Thanks to DSP control and advanced control algorithm, it has high response speed, high reliability and high industrial standard.

Performance characteristics

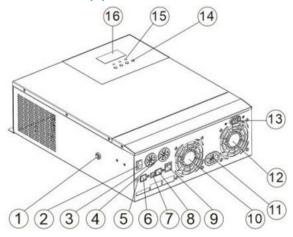
- Adopt full digital voltage and current double closed-loop control and advanced SPWM technology to output pure sine wave.
- Two output modes, i.e. mains bypass and inverter output can achieve uninterrupted power supply function.
- ☐ Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.
- ☐ Advanced MPPT technology, with efficiency up to 99.9%.
- 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 and operation 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 under voltage protection, overload protection, back filling protection, etc.



Product connection diagram



Appearance



Overload protector	Dry contact port
ON/OFF rocker switch	Cooling fan
AC input port	Battery port
AC output port	Cooling fan
Grounding screw hold	PV port
RS485-2 communication port	Touch the key lightly
USB communication port	Indicator light
RS485-1 communication port	LCD screen



Model AC mode Rated input voltage Input voltage range	S6	0-H		S8	0-H	
		220	OVac/230Vac			
Frequency		(170Vac~280Vac) ±2%; (90Vac-28	OVac) ±2	2%	
Frequency Range		50Hz/ 60	OHz (auto-sensing)			
Overload/short circuit protection						
Efficiency		47 ± 0.3 Hz $\sim 55\pm0$	0.3Hz (50Hz)/57±0.	3Hz ~ 65	5±0.3Hz (60Hz);	
Conversion time (bypass and inverter)			Breaker			
AC reverse protection			>95%			
Maximum bypass overload current		10ms	(Typical value)			
Inverting mode			yes			
Output voltage waveform	1					
			40A			
Rated output power(VA)						
Rated output power(W)		Pu	re sine wave			
Power factor	3000 (2 600/	(3799/3999)	5999	R/43ER/4	4588/4888/5888}	
	3000 (2000)	2,00,0000	5000	7(4330/2	+300/4800/3000)	
Rated output voltage (Vac)						
Output voltage error			1			
Output frequency range (Hz)		230Vac (200/	208/220/240Vac se	ettable)		
Efficiency			±5%			
	50Hz ± 0.3Hz/60Hz ± 0.3Hz					
	>90%					
	(102% <load<125%)< td=""><td>+10%· reporting err</td><td>or and turn off the o</td><td>utnut af</td><td>ter 5 minutes:</td></load<125%)<>	+10%· reporting err	or and turn off the o	utnut af	ter 5 minutes:	
Overload protection	(125% <load<150%)< td=""><td>±10%: reporting err</td><td>or and turn off the o</td><td>utput af</td><td>ter 10 seconds;</td></load<150%)<>	±10%: reporting err	or and turn off the o	utput af	ter 10 seconds;	
·	Load>150% ±10%: re					
Peak power	60	000VA		10	000VA	
Loaded motor capacity	2HP		4HP			
Output short-circuit protection			Breaker			
Specification of bypass breaker			40A			
Rated battery input voltage		48V (minim	num start voltage 44	1\/)		
Battery voltage range	10 0Vdc~60Vdc + 0				voltage alarm/overvolt	
	40.0Vdc~60Vdc ± 0.6Vdc (under voltage alarm/turnoff voltage/overvoltage alarm/overvoltage restorationsettable LCD screen)					
Davier action are ada			Load ≤50W	/		
Power saving mode			Load 350VV			
AC charge		l and ani	d an likhima hakkam.			
Battery type		Lead acid	d or lithium battery			
Maximum charge current			60A			
Charge current error			± 5Adc			
Charge voltage range		4	40~60Vdc			
Short-circuit protection		Breake	r and blown fuse			
Breaker specification			40A			
Overcharge protection	Turn off charge after 1min alarm					
Solar charge						
Maximum PV opencircuit voltage			5001/1			
	500Vdc					
PV operation voltage range	120-500Vdc					
MPPT voltage range	120-450Vdc					
Battery voltage range		4	40-60Vdc			
Maximum output power	4200	W		5000	W	
Charge current range of solar energy	0-60	A		0-80	A	
(settable)	0 00	^		0 00	А	
Charge short-circuit protection		E	Blown fuse			
Wiring protection		Inverse	wiring protection			
Authentication specification Specification authentication						
•		CE(IEC 62109-1)			
EMC authentication grade			EN61000			
Operation temperature range			.5°C to 55°C			
Storage temperature range	-15°C to 55°C -25°C ~ 60°C					
Humidity range	-25°C ~ 60°C 5% to 95% (Conformal coating protection)					
Noise		370 to 93% (COI	• .	ection)		
Thermal dissipation			≤60dB			
	Forced cooling with adjustable air speed					
Communication interface						
Communication interface Dimension (L*W*D) Weight (kg)			Fi/GPRS)/dry node o *322mm*126mm	control		