p.n.430004



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

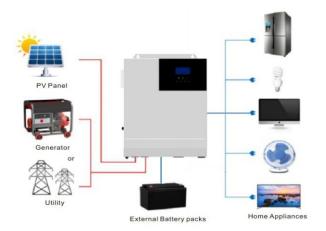
- Adopt full digital voltage and current double closed-loop control and advanced SPWM technology to output pure sine wave.
- Two output modes, i.e. mains bypass and inverter output can achieve uninterrupted power supply function.
- Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority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

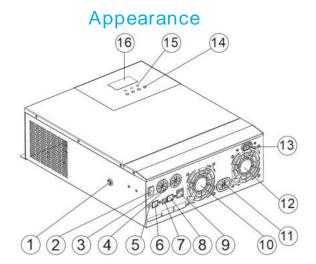






Product connection diagram



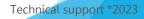


1	Overload protector	9	Dry contact port	
2	ON/OFF rocker switch	10	Cooling fan	
3	AC input port	(1)	Battery port	
4	AC output port	12	Cooling fan	
5	Grounding screw hold	13	PV port	
6	RS485-2 communication port	14	Touch the key lightly	
7	USB communication port	15	Indicator light	
8	RS485-1 communication port	16	LCD screen	



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Technical parameters

Model	S60-H		S80-H			
AC mode	0001 ((2001) (
Rated input voltage	220Vac/230Vac					
Input voltage range	(170Vac~280Vac) ±2% ; (90Vac-280Vac) ±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					
Inverting mode						
Output voltage waveform	Pures		ine wave			
Rated output power(VA)	3000 (2600/2700/3000)		5000(4350/4500/4800/5000)			
Rated output power(W)	3000 (2600/ 27	700/3000)	5000(4350/4	45(0/4800/5000)		
Power factor			1			
Rated output voltage (Vac)	230Vac (200/208/220/240Vac settable)					
Output voltage error	±5%					
Output frequency range (Hz)	±3% 50Hz ± 0.3Hz/60Hz ± 0.3Hz					
Efficiency		>90%				
	>90% (102% <load<125%) 5="" after="" and="" error="" minutes;<="" off="" output="" reporting="" td="" the="" turn="" ±10%:=""></load<125%)>					
Overload protection	$(125\% < load < 125\%) \pm 10\%$ reporting error and turn off the output after 10 seconds; Load > 150\% $\pm 10\%$: reporting error and turn off the output after 5 seconds;					
Peak power	6000	VA	1	0000VA		
Loaded motor capacity	2HP		4HP			
Output short-circuit protection		Bre	aker			
Specification of bypass breaker		2	AOA			
Rated battery input voltage	48V (minimum start voltage 44V)					
Battery voltage range	40.0Vdc~60Vdc ± 0.6Vdc (under voltage 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	60A					
Charge current error			Adc			
Charge voltage range			60Vdc			
Short-circuit protection	Breaker and blown fuse					
Breaker specification	40A					
Overcharge protection	Turn off charge after 1min alarm					
Solar charge Maximum PV opencircuit voltage		500	N/ -I -			
PV operation voltage range	500Vdc					
MPPT voltage range	120-500Vdc 120-450Vdc					
Battery voltage range			50Vdc			
Maximum output power	4200 V	40-0 V		W		
Charge current range of solar energy	4200 V 0-60 A		5000 0-80	A		
(settable) Charge short-circuit protection	0-00 F			A		
Wiring protection	Blown fuse Inverse wiring protection					
Authentication specification			ng protostion			
Specification authentication	CE(IEC 62109-1)					
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 10.9					
Weight (kg)		1	0.5			



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