All-in-one solar charge inverter

HF4840S80-145/HF4850S80-145



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

Application scenarios





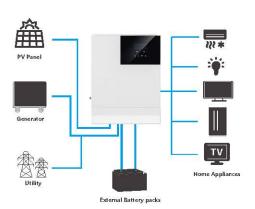




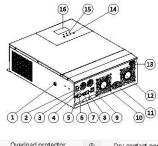




Product connection diagram



Product characteristics



(D	Overload protector	9	Dry contact por
(3	ON/OFF rocker switch	0	Cooling fan
(3	AC input port	1	Battery port
(a	AC output port	0	Cooling fan
(3	Grounding screw hold	(3)	PV port
(3	RS485-2 communication port	0	Touch button
(Ð	USB communication port	(6)	Indicator
(3)	R\$485-1 communication port	(6)	LCD screen

Parameters

Models	HF4840S80-145	HF4850S80-145		
AC mode				
Rated input voltage	220/230Vac			
Input voltage range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%			
Frequency	50Hz/60Hz (Auto detection)			
Frequency Range	47±0.3Hz ~ 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				
Inverter mode				
Output voltage waveform		ne wave		
Rated output power (VA)	4000 5000			
Rated output power (W)	4000	5000		
Power factor	1			
Rated output voltage (Vac)	230Vac			
Output voltage error	±5%			
Output frequency range (Hz)	50 Hz ± 0.3 Hz/ 60 Hz ± 0.3 Hz			
Maximum Efficiency	>92%			
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;			
Peak power	8000VA	10000VA		
Loaded motor capability	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 voltage/overvoltage alarm /overvoltage recovery settable on LCD screen)			
Power saving mode: AC charging	Load ≤50W Lead acid or lithium battery			
Battery type				
Maximum charge current	60A			
Charge current error		Adc		
Charge voltage range	40Vdc	~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		and the second s		
Maximum PV open circuit voltage	145	5Vdc		
PV operating voltage range	60-145Vdc			
MPPT voltage range	60-115Vdc			
Battery voltage range		50Vd c		
Maximum output power	4200W	4200W		
PV charging current range (can be set)	0-80A	0-80A		
Charging short circuit protection		n fuse		
Wiring protection	Reverse polarity protection			
Certified specifications				
Certification	CE(EN62109-1)			
EMC certification leve	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	USB/RS485(WiFi/GPRS)/Dry node control			
Size (L*W*D)	426*322*124mm			
Weight (kg)		n 8		