

All-in-one solar charge inverter

CBG-HF4840S80-145/CBG-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.
- \cdot 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





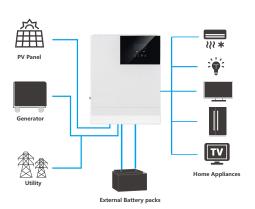




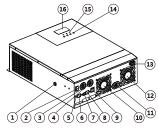




Product connection diagram



Product characteristics



1	Overload protector	9	Dry contact por
2	ON/OFF rocker switch	100	Cooling fan
3	AC input port	111	Battery port
4	AC output port	@	Cooling fan
(5)	Grounding screw hold	13	PV port
6	RS485-2 communication port	(4)	Touch button
7	USB communication port	6	Indicator
8	RS485-1 communication port	160	LCD screen



Parameters

	CBG- HF4840S80-145	CBG- HF4850S80	
AC mode			
Rated input voltage	220/2	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	40A		
Inverter mode			
Output voltage waveform	Pure si	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)	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
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	4	0A	
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		
Battery type	Lead acid or lithium battery		
Maximum charge current	60A		
Charge current error	± 5Adc		
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		3 3	
Maximum PV open circuit voltage	141	5Vdc	
PV operating voltage range	60-145Vdc		
MPPT voltage range	60-115Vdc		
Battery voltage range		60Vdc	
Maximum output power	4200W	4200W	
PV charging current range (can be set)	0-80A	0-80A	
Charging short circuit protection		n fuse	
Wiring protection Certified specifications	Reverse polarity protection		
Certification	CF(FNE	52109-1)	
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)		0.8	