

All-in-one solar charge inverter

CBG-HFP4850S80/CBG-HFP4835U80-145



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
- · 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.
- \cdot 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.
- \cdot 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, Internet monitoring as well as remote operations.
- · Available for 6 units parallel connection.
- · Available for split phase connection.

Application scenarios



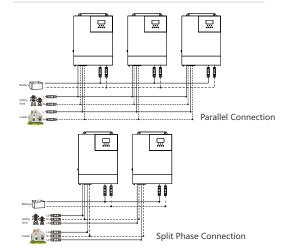




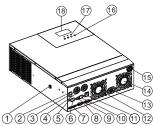




Product connection diagram



Product characteristics



	1	Overload protector	10	RS485-1 communication port	
	2	ON/OFF rocker switch	11)	Dry contact port	
	3	AC input port	12	Cooling fan	
	4	AC output port	(3)	Battery port	
	(5)	Grounding screw hold	(4)	Cooling fan	
	6	RS485-2 communication port	15)	PV PORT	
	7	Current sharing port (parallel module only)	16	Touch the key lightly	
	8	Parallel communication port (parallel module only)	177	Indicator light	
	9	USB communication port	(18)	LCD screen	



Parameters

Models	CBG- HFP4850S80	CBG- HFP4835U80			
AC mode					
Rated input voltage	220/230Vac	110/120Vac			
Input voltage range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%	(90Vac~140Vac) ±2%			
Frequency	50Hz/ 60Hz(Auto detection)				
Parallelable/Split Phase units	Max. parallelable unit: 6pcs				
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)				
AC reverse protection	Available 40A				
Maximum bypass overload current					
Inverter mode					
Output voltage waveform	Pure sin	ne wave			
Rated output power (VA)	5000	3500			
Rated output power (W)	5000	3500			
Power factor	1				
Rated output voltage (Vac)	230Vac	120Vac			
Output voltage error	±5%				
Output frequency range (Hz)	50Hz ± 0.3Hz/	/60Hz ± 0.3Hz			
Maximum Efficiency	>92%	>91%			
Overload protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes(;125% < load < 150%) ±10%: report error and turnoff the output after 10 seconds;load >150% ±10%: report error and turn off the output after 5 seconds;	(102% < load <110%) ±10%: report error and turn off t output after 5 minutes;(110% < load < 125%) ±10%: re error and turn off the output after 10 seconds;(Load > 1 ±10%): report error and turn off the output after 5 sec			
Peak power	10000VA	6000VA			
Loaded motor capability	4HP	2HP			
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 a				
Power saving mode	-				
AC charging					
Battery type		lithium battery			
Maximum charge current	60A	40A			
harge current error ± 5Adc					
Charge voltage range	40Vdc~58Vdc	40Vdc~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					
Maximum PV open circuit voltage	145Vdc				
PV operating voltage range	60-145Vdc				
MPPT voltage range	60-115Vdc				
Battery voltage range	40-60Vdc				
Maximum output power	4200W				
PV charging current range (can be set)	0-80A				
Charging short circuit protection Blown fuse					
Wiring protection	Reverse polarity protection				
Certified specifications	CE(EN62040-1)				
Certification					
EMC certification level EN62040-2, C2		0-2, C2			
Operating temperature range	-15°C t				
Operating temperature range Storage temperature range	-15°C t -25°C ∕	~ 60°C			
Operating temperature range Storage temperature range Humidity range	-15°C t -25°C - 5% to 95% (Conforma	~ 60°C al coating protection)			
Operating temperature range Storage temperature range Humidity range Noise	-15°C t -25°C - 5% to 95% (Conforma ≤60	~ 60°C al coating protection) DdB			
Operating temperature range Storage temperature range Humidity range Noise Heat dissipation	-15°C t -25°C - 5% to 95% (Conforma ≤60 Forced air cooling, v	~ 60°C al coating protection) DdB ariable speed of fan			
Operating temperature range Storage temperature range Humidity range Noise	-15°C t -25°C - 5% to 95% (Conforma ≤60	~ 60°C al coating protection) odB ariable speed of fan RSJ/Dry node control			