

All-in-one solar charge inverter

CBG-HF4825U80-145/CBG-HF4830U80-145/CBG-HF4835U80-145



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.
- \cdot 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





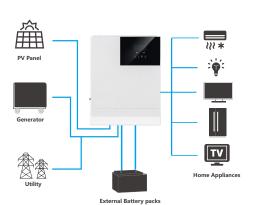




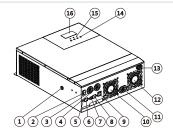




Product connection diagram



Product characteristics



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	6	LCD screen



Parameters

Models	CBG- HF4825U80-145	CBG- HF4830U80-145	CBG- HF4835U80			
AC mode						
Rated input voltage		110/120Vac				
Input voltage range	(90Vac~140Vac) ±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 sine wave				
Rated output power (VA)	2500	3000	3500			
Rated output power (W)	2500	3000	3500			
Power factor		1				
Rated output voltage (Vac)		120Vac				
Output voltage error		±5%				
Output frequency range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz					
Maximum Efficiency		>91%				
Overload protection	(102% < load <110%) ±10%: report error and turn off the output after 5 minutes; (110% < load <125%) ±10%: report error and turn off the output after 10 seconds; (Load >125% ±10%): report error and turn off the output after 5 seconds;					
Peak power	4000VA	4500VA	5000VA			
Loaded motor capability	1HP	2HP	2HP			
Output short circuit protection	2111	Circuit breaker	2111			
Bypass breaker specifications		40A				
Rated battery input voltage		48V (Minimum starting voltage 44V)				
Battery voltage range			overv settable on LCD scree			
Power saving mode AC charging	Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery settable on LCD screen) Load ≤50W					
Battery type		Lead acid or lithium battery				
Maximum charge current		40A				
Charge current error		+ 5Adc				
Charge voltage range		40Vdc~60Vdc				
Short circuit protection		Circuit breaker and blown fuse				
Circuit breaker specifications		40A				
Overcharge protection	40A Alarm and turn off charging after 1 minute					
PV charging	Ala	ini and turn on charging after 1 minute				
		4.451.41				
Maximum PV open circuit voltage		145Vdc				
PV operating voltage range		60-145Vdc 60-115Vdc				
MPPT voltage range		60-115Vdc 40-60Vdc				
Battery voltage range			400011			
Maximum output power	4200		4200W			
PV charging current range (can be set)	0-80		0-80A			
Charging short circuit protection		Blown fuse				
Wiring protection Certified specifications	Reverse polarity protection					
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				
the said of the said of	Forced air cooling, variable speed of fan					
Heat dissipation			USB/RS485(WiFi/GPRS)/Dry node control			
Communication interface		- '				