

XTRA POWER HF SERIES HYBRID INVERTER

Series

CBG-HF3/5KW-SGM

This is a multi functional off grid hybrid inverter, it combining functions of inverter, solar charger and battery charger to offer uninterruptible power support in portable size. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.

Main Features:

1. High efficiency pure sine wave inverter(PF=1);
2. Wide PV input range (120Vdc-500Vdc) 80A MPPT Inbuilt;
3. Intelligent 3 stages 60A AC battery charger;
4. Surges to 2X continuous power for 5 seconds for motor loads;
5. Intelligent functionality enables utility and solar input prioritization;
6. Wide utility input range (90Vac-280Vac) for unreliable grid even in the most challenging environments;
7. Field serviceable with replacement boards and spare parts;
8. Monitor, troubleshoot, or communication with USB/RS232/WIFI;
9. This model inverter can work without batteries when there is enough sun and PV input voltage.

Solar System Connection



Hybrid Solar Inverter

Technical Specifications:

Model	CBG-HF3KW-SGM-A	CBG-HF5KW-SGM-A
RATED POWER	3000VA/3000W	5000VA/5000W
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	220/230/240 VAC ± 5% 50/60Hz setable	
Surge Power	6000VA	10000VA
Efficiency (Peak)	90%~93%	
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)	
Waveform	Pure sine wave	
BATTERY		
Battery Voltage	24VDC	48 VDC
Floating Charge Voltage	27VDC	54 VDC
Overcharge Protection	32VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Max. PV Array Open Circuit Voltage	500VDC	500VDC
Max. PV Array Power	4000 W	4000 W
MPP Range Operating Voltage	120-450VDC	120-450VDC
Max. Solar Charge Current	80 A	80 A
Max. AC Charge Current	60 A	60 A
Max. Charge Current	80 A	80 A
PHYSICAL		
Dimension, D x W x H (mm)	130x300x450 Package Size 210x390x590	
Net Weight (kgs)	9 GW:11	10 GW:12
Communication Interface	USB/RS232	
ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10° C to 50° C	
Storage Temperature	-15° C to 60° C	

Approximate Back-Up Time Table:

Model	Load (VA)	Backup Time @24Vdc 100Ah(min)	Backup Time @24Vdc 200Ah(min)
XTHF3KVA	300	359	880
	1500	54	131
	3000	22	54
Model	Load (VA)	Backup Time @48Vdc 100Ah(min)	Backup Time @48Vdc 200Ah(min)
XTHF5KVA	500	490	1030
	2500	72	172
	5000	32	72

Note: Product specifications are subject to change without further notice.