

Blue Carbon

Solar Inverter

4000W Inverter



BCT-FXC-4KW

Rated power 4kW, power factor 1

MPPT ranges 40V~450V, 500Voc

High frequency inverter with small size and light weight

Pure sine wave AC output

Solar and utility grid can power loads at the same time

With CAN/RS485 for BMS communication

With the ability to work without battery

WiFi/ GPRS remote monitoring (optional)



Built-in 100A
solar charger



Wide MPPT
range 40-500V



Workable with
generator

BMS

Support Lithium/
Lead-acid Battery



Lithium Battery
Activation



Detachable
Dust Cover



WiFi
monitoring

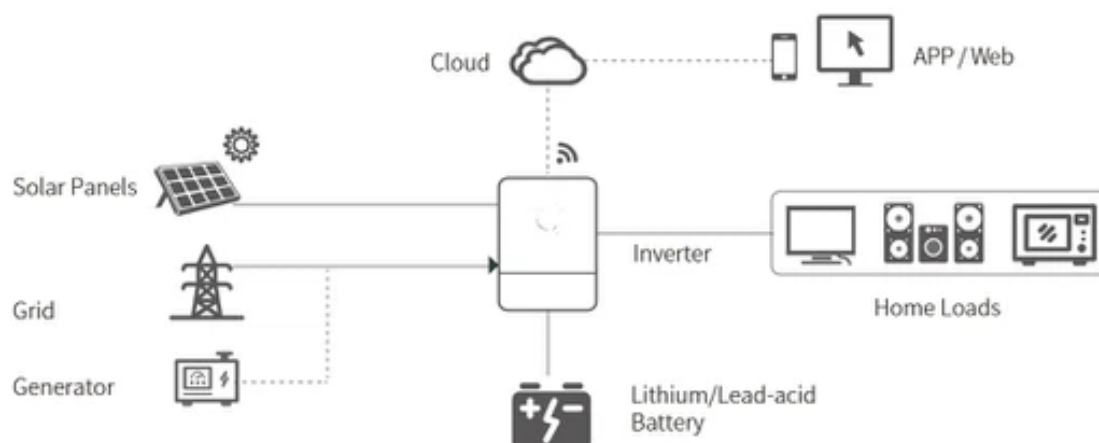
Specifications

○ MODEL BCT-FXC-4KW

○ AC INPUT	Rated Input Voltage (VAC)	208/220/230/240;L+N+PE
	Voltage Range (VAC)	90~280±3(normal mode);170~280±3 (UPS mode)
	Frequency (Hz)	50/60 (Auto Adaptive)
○ AC OUTPUT	Rated Capacity (kw)	4
	Peak Power (kVA)	5.7
	Voltage (VAC)	208/220/230/240
	Power Factor (PF)	1
	Frequency	50/60Hz±0.1%
	Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
	Wave Form	Pure Sine Wave
	Overload Capacity (Battery Mode)	60s@102%~110% load;10s@110%~130% load; 3s@130%~150%load; 0.2s@>150% load
	Max. Efficiency (Battery Mode)	92.7%@24VDC
○ CHARGER (PV / AC)	Parallel Quantity	NA
	Solar Charger Type	MPPT
	Max PV Input Current / input Power	18A/5000W
	MPPT Range@Operating Voltage (VDC)	40~450
	Max PV Open Circuit Voltage (VDC)	500
	Max PV Charge Current (A)	100
	Max AC Charge Current (A)	100
○ BATTERY	Max. Charge Current (PV + AC)(A)	100
	Rated Voltage (VDC)	24
	Floating Charge Voltage (VDC)	27
	Overcharge Protection (VDC)	30.5
○ INTERFACE	Battery Type	Lithium and Lead -acid
	HMI	LCD
	Interface	RS485 /RS232 / USB / Dry Contact
○ GENERAL DATA	Monitoring	WiFi (Optional)
	Ingress Protection	IP20
	Operating Temperature	-10°C~50°C
	Relative Humidity	5%~95% (Non-condensing)
	Storage Temperature	-15°C~60°C
	Net Weight (kg)	8
	Dimensions (W*H*D)	490*306*115mm(without bracket)
	Max.Operating Altitude	4000m (Derating above 1000m)



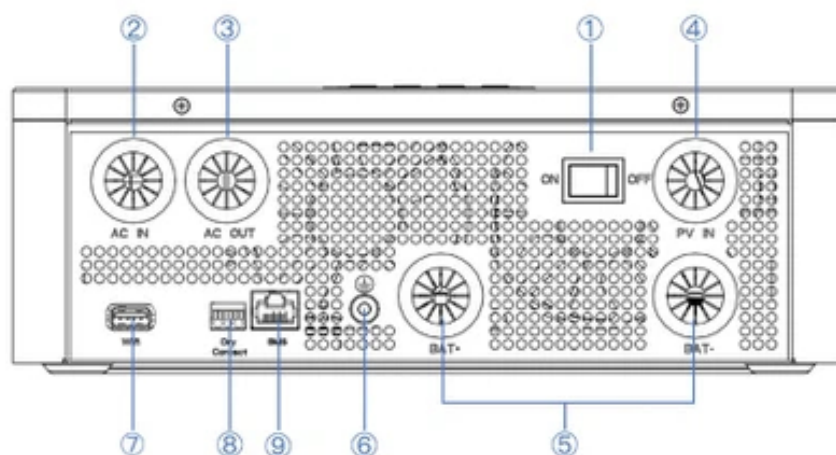
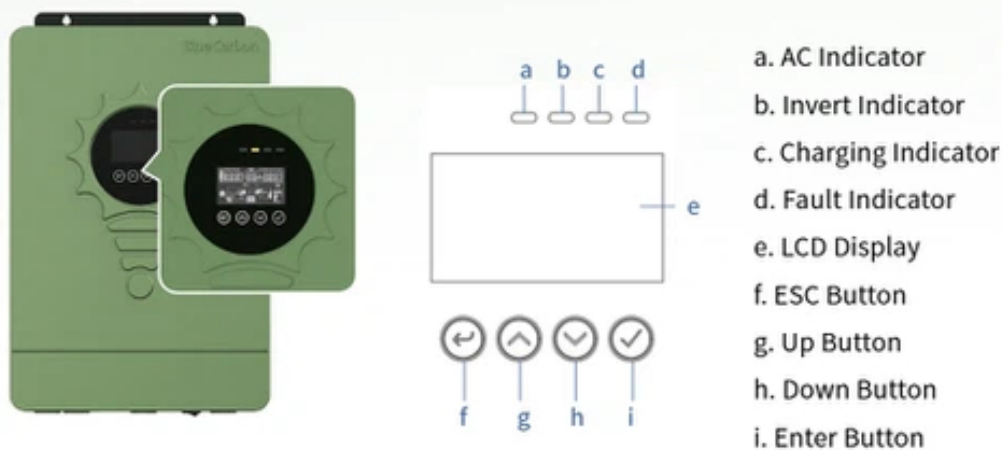
System Diagram



This is a multifunctional solar inverter, integrated with a MPPT solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is perfect for off grid backup power and self-consumption applications. This inverter can work with or without batteries.

The whole system also need other devices to achieve complete running such as PV modules, generator, or utility grid. Please consult with your system integrator for other possible system architectures depending on your requirements. The WiFi / GPRS module is a plug-and-play monitoring device to be installed on the inverter. With this device, users can monitor the status of the PV system from the mobile phone or from the website anytime anywhere.

Product Overview



- | | |
|-----------------------|---|
| 1 Power On/Off Switch | 6 Grounding |
| 2 AC Input | 7 WiFi/GPRS Communication Port |
| 3 AC Output | 8 Dry Contact |
| 4 PV Input | 9 BMS Communication Port (Support CAN/RS485 Protocol) |
| 5 Battery Input | |