

Solar Inverter

Both Off-grid and On-grid Mode

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
- Off-grid operation by default. Supporting one-click switching to on-grid mode. Can adapt to multiple power usage scenarios without complicated procedures
- 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



Switching between off-grid independent operation and on-grid operation mode flexibly.

BMS

Support Lithium/Lead-acid Battery



Lithium Battery Activation



Detachable Dust Cover



WiFi monitoring

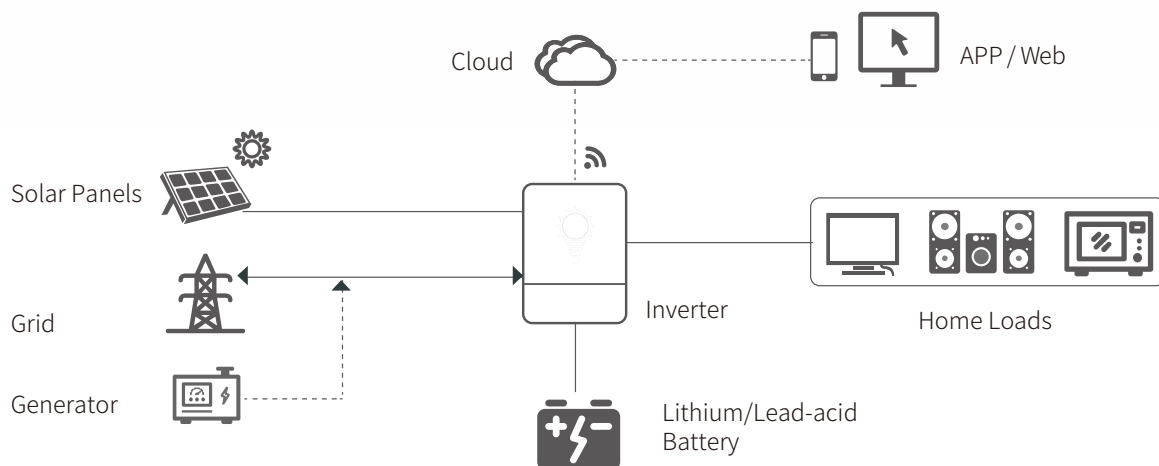
Specifications

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
	Parallel Quantity	NA
CHARGER (PV / AC)	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
	Max. Charge Current (PV + AC)(A)	100
BATTERY	Rated Voltage (VDC)	24
	Floating Charge Voltage (VDC)	27
	Overcharge Protection (VDC)	30.5
	Battery Type	Lithium and Lead -acid
INTERFACE	HMI	LCD
	Interface	RS485 /RS232 / USB / Dry Contact
	Monitoring	WiFi (Optional)
GENERAL DATA	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)



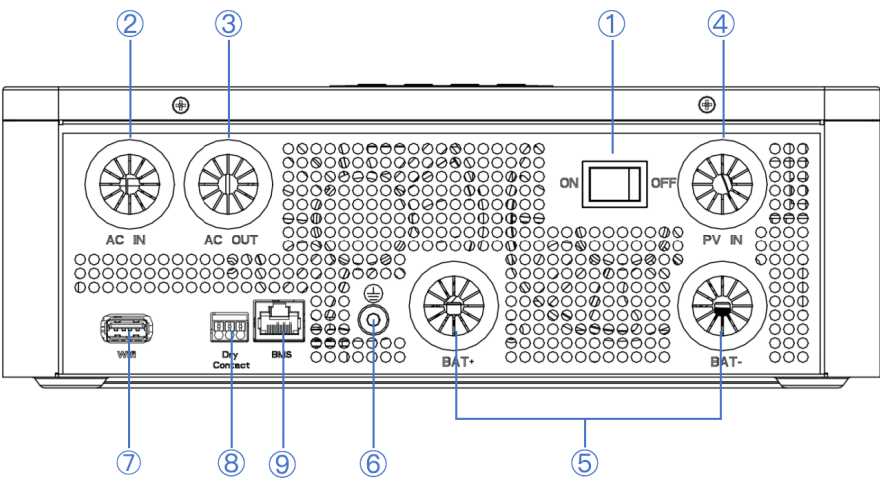
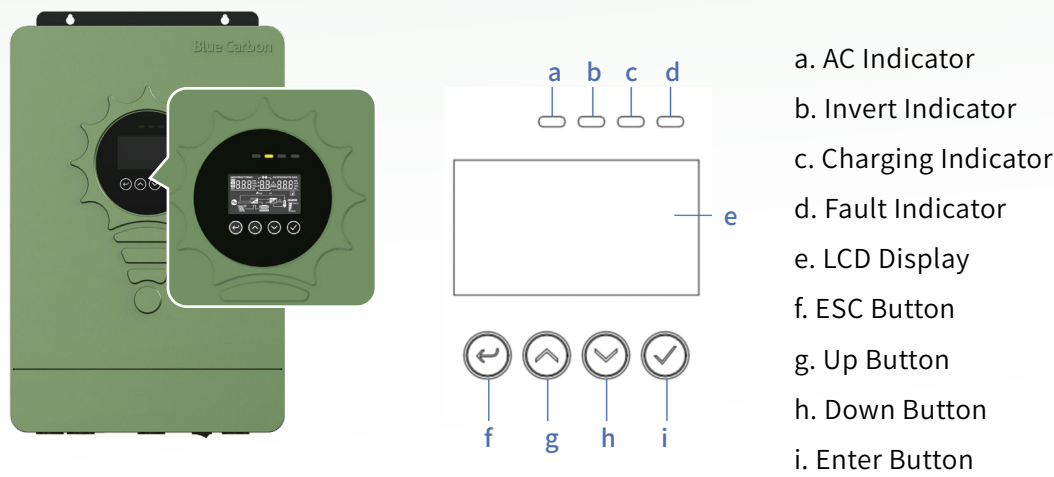
System Diagram



This is an off-grid + on-grid dual-mode solar inverter, which can integrate MPPT solar charge controller, high-frequency pure sine wave inverter, and UPS system. It supports off-grid independent operation (with/without battery mode) and state electricity complementary mode (photovoltaic priority, electricity supplement automatically). No need complicated procedures, it can adapt to multiple power usage scenarios easily.

Suitable for off-grid power supply, industrial and commercial self-consumption photovoltaic systems and multi-energy complementary scenarios. Built-in WiFi/GPRS module, which supports mobile phone/webpage real-time monitoring of power generation, load status, battery capacity and state electricity connection. Modular design can be connected to photovoltaic modules, generators and other multi-energy equipment. Plug-and-play and easy to deploy, providing a stable and flexible power solution for distributed energy systems.

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 | |