

Solar Inverter

6000W Inverter

Both Off-grid and On-grid Mode



BCT-FXC-6KW

- Max Power 6kW, power factor 1
- MPPT ranges 120V~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
- Off-grid operation by default. Supporting one-click switching to on-grid mode. Can adapt to multiple power usage scenarios without complicated procedures
- With CAN/RS485 for BMS communication
- With the ability to work without battery
- WIFI/ GPRS remote monitoring (optional)
- Dual AC output
- Feed-in to grid



Built-in 100A solar charger



Wide MPPT range 120-500V

DUAL

Dual AC Output



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

BMS

Support lithium/lead-acid battery



Feed-in to grid



Lithium battery activation



Detachable dust cover



WiFi monitoring

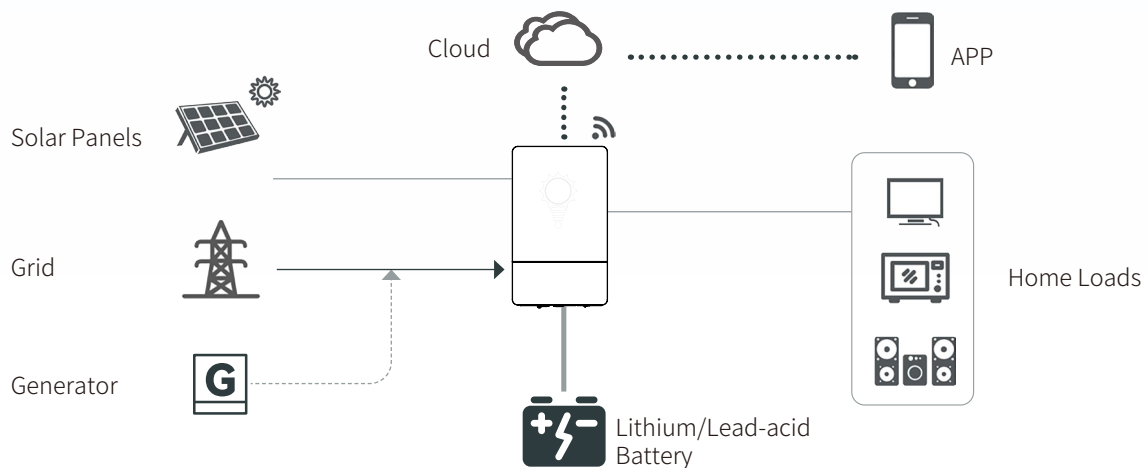
Specifications

MODEL BCT-FXC-6KW

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	Max Power (kw)	6
	Peak Power (kVA)	10
	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)	93%@48VDC
CHARGER (PV / AC)	Solar Charger Type	MPPT
	Max PV Input Current / input Power	18A/6000W
	MPPT Range@Operating Voltage (VDC)	120~450
	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)	48
	Floating Charge Voltage (VDC)	54
	Overcharge Protection (VDC)	61
	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)	9
	Dimensions (W*H*D)	510*306*115mm(without bracket)
	Max.Operating Altitude	4000m (Derating above 1000m)



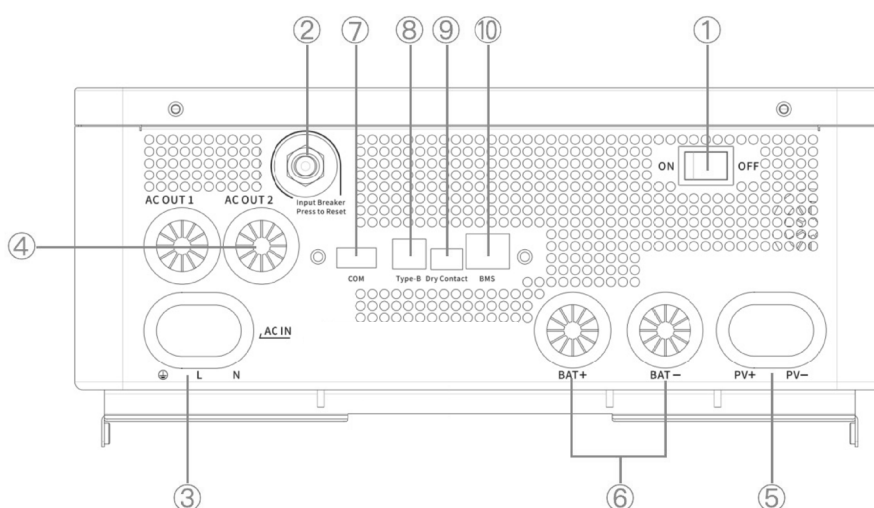
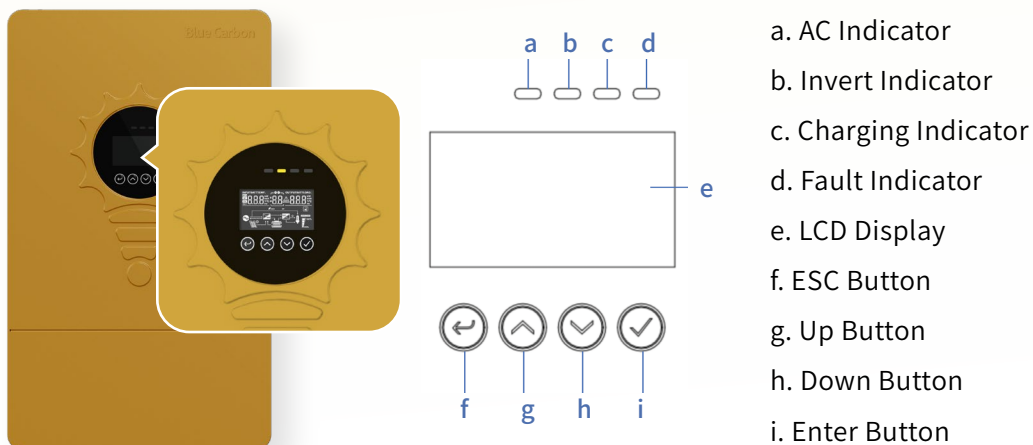
System Diagram



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 | 7 | WiFi/GPRS Communication Por |
| 2 | Input Breaker | 8 | USB Communication Por |
| 3 | AC Input | 9 | Dry Contact |
| 4 | Dual AC Output | 10 | BMS Communication Port |
| 5 | PV Input | | (Support CAN/RS485 Protocol) |
| 6 | Battery Input | | |