

# Solar Inverter

6000W Inverter



BCT-FXC-6KW-P

- 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
- With CAN/RS485 for BMS communication
- With the ability to work without battery
- Parallel operation up to 9 units (only with battery connected).
- WIFI/ GPRS remote monitoring (optional)
- Dual AC output
- Feed-in to grid



9 Inverters  
in parallel



Built-in 80A  
solar charger



Wide MPPT  
range 120-500V

DUAL

Dual  
AC Output

BMS

Support lithium/  
lead-acid battery



Feed-in  
to grid



Lithium battery  
activation



Detachable  
dust cover



WiFi  
monitoring

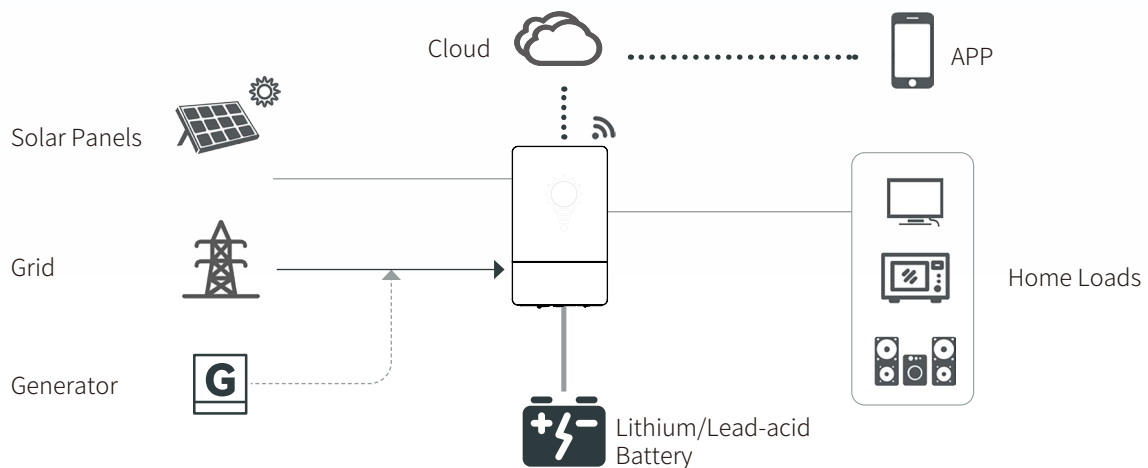
Specifications

MODEL BCT-FXC-6KW-P

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)	80
	Max AC Charge Current (A)	80
	Max. Charge Current (PV + AC)(A)	80
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)



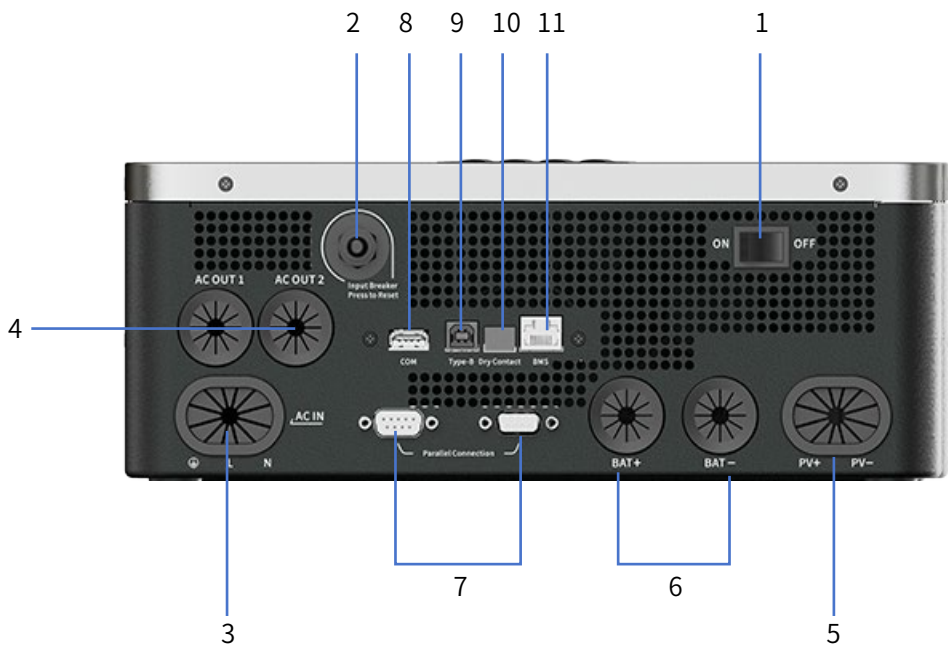
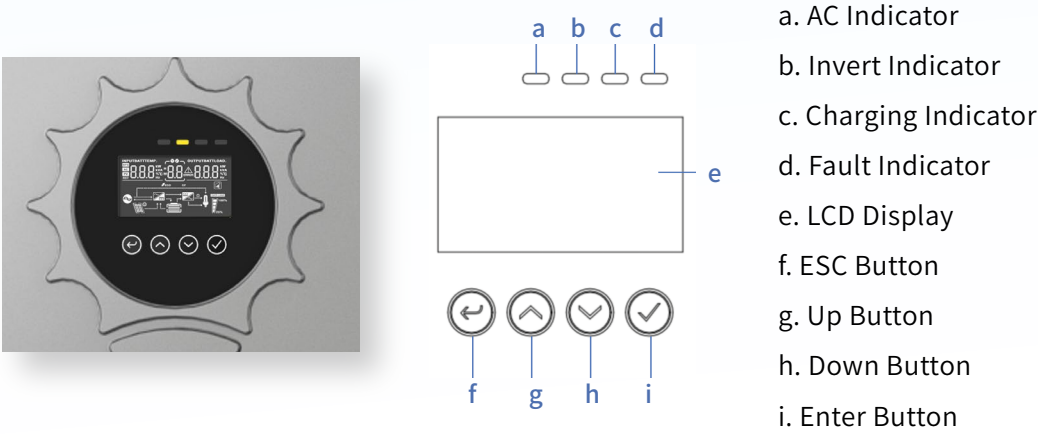
## System Diagram



This is 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 | 7  | Parallel Communication Ports |
| 2 | Input Breaker       | 8  | WiFi/GPRS Communication Port |
| 3 | AC Input            | 9  | USB Communication Port       |
| 4 | Dual AC Output      | 10 | Dry Contact                  |
| 5 | PV Input            | 11 | BMS Communication Port       |
| 6 | Battery Input       |    | (Support CAN/RS485 Protocol) |