

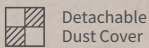
# Photovoltaic Inverter



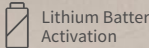
## | Off-grid Inverter



Built-in 50A  
Solar Charger



Detachable  
Dust Cover



Lithium Battery  
Activation

BMS Support Lithium/  
Lead-acid Battery

Product Model: **BCT-FXC-1.2KW**

### 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)              | 1.2                                     |
| Surge Power (kVA)                | 2.4                                     |
| 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%~120%load;<br>10s@120%~200%load |
| Max. Efficiency (Battery Mode)   | 90%@12VDC                               |
| Parallel Quantity                | NA                                      |

### Charger (PV / AC)

|                                    |          |
|------------------------------------|----------|
| Solar Charger Type                 | MPPT     |
| Max PV Input Current / Power       | 18A/800W |
| MPPT Range@Operating Voltage (VDC) | 17-115   |
| PV Start-up Voltage(VDC)           | 20       |
| Max PV Open Circuit Voltage (VDC)  | 115      |
| Max PV Charge Current (A)          | 50       |
| Max AC Charge Current (A)          | 50       |
| Max. Charge Current (PV + AC)(A)   | 100      |

### Battery

|                               |                        |
|-------------------------------|------------------------|
| Rated Voltage (VDC)           | 12                     |
| Floating Charge Voltage (VDC) | 13.8                   |
| Overcharge Protection (VDC)   | 16                     |
| Battery Type                  | Lithium and Lead -acid |

### Interface

|           |                                       |
|-----------|---------------------------------------|
| HMI       | LCD                                   |
| Interface | RS232/RS485 (Optional)/CAN (Optional) |

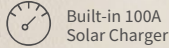
### General Data

|                        |                               |
|------------------------|-------------------------------|
| Ingress Protection     | IP21                          |
| Operating Temperature  | -10°C~60°C                    |
| Relative Humidity      | 5%~95% (Non-condensing)       |
| Storage Temperature    | -15°C~60°C                    |
| Net Weight (kg)        | 3.5                           |
| Dimensions (W*H*D)     | 301*217*97mm(without bracket) |
| Max.Operating Altitude | 4000m (Derating above 1000m)  |

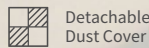
### Activation

|               |     |
|---------------|-----|
| AC Activation | YES |
| PV Activation | YES |

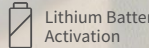
## | Solar Inverter



Built-in 100A  
Solar Charger



Detachable  
Dust Cover



Lithium Battery  
Activation

BMS Support Lithium/  
Lead-acid Battery

Product Model: **BCT-FXC-4KW**  
Both Off-grid and On-grid Mode

### 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                                                                           |
| Surge Power (kVA)                | 7.2                                                                         |
| Voltage (VAC)                    | 208/220/230/240                                                             |
| Power Factor (PF)                | 1                                                                           |
| Frequency                        | 50/60Hz±0.1%                                                                |
| Switch Time (ms)                 | 10 (normal mode) / 20 (UPS mode)                                            |
| Wave Form                        | Pure Sine Wave                                                              |
| Overload Capacity (Battery Mode) | 60s@102%~110% load;10s@110%~130% load;<br>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    |
| PV Start-up Voltage(VDC)           | 60        |
| 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 / CAN                         |
| Monitoring | WiFi (Optional: None/ Internal / External) |

### General Data

|                        |                               |
|------------------------|-------------------------------|
| Ingress Protection     | IP21                          |
| Operating Temperature  | -10°C~60°C                    |
| Relative Humidity      | 5%~95% (Non-condensing)       |
| Storage Temperature    | -15°C~60°C                    |
| Net Weight (kg)        | 6.2                           |
| Dimensions (W*H*D)     | 420*284*94mm(without bracket) |
| Max.Operating Altitude | 4000m (Derating above 1000m)  |

# | Solar Inverter

Product Model:

**BCT-FXC-6.5KW**

• Both Off-grid and On-grid Mode

**BCT-FXC-6.5KW-P**

• Off-Grid Inverter

**BCT-FXC-6.5KW-H-P**

• Hybrid Inverter



Built-in 120A  
Solar Charger

Detachable  
Dust Cover

Lithium Battery  
Activation

BMS Support Lithium/  
Lead-acid Battery

# | Hybrid Inverter



Built-in 160A  
Solar Charger

Detachable  
Dust Cover

Lithium Battery  
Activation

BMS Support Lithium/  
Lead-acid Battery

Product Model: **BCT-FXC-12KW**

|                   |                                    | BCT-FXC-6.5KW                                                                                                                          | BCT-FXC-6.5KW-P                    | BCT-FXC-6.5KW-H-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         | Rated Capacity (kw)                | 6.5                                                                                                                                    |                                    |                                    |
|                   | Surge Power (kVA)                  | 12                                                                                                                                     |                                    |                                    |
|                   | 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)   | Previous continuous load < 2.5kW:15min@ 102%~108% load;1min@ 108%~120% load<br>10s@ >120% load Or:1min@ 102%~120% load;10s@ >120% load |                                    |                                    |
| Charger (PV / AC) | Max. Efficiency (Battery Mode)     | 94%@48VDC                                                                                                                              |                                    |                                    |
|                   | Parallel Quantity                  | NA                                                                                                                                     | 9                                  | 9                                  |
|                   | Solar Charger Type                 | MPPT                                                                                                                                   |                                    |                                    |
| Battery           | Max PV Input Current / input Power | 27A/9000W                                                                                                                              |                                    |                                    |
|                   | MPPT Range@Operating Voltage (VDC) | 60~450                                                                                                                                 |                                    |                                    |
|                   | PV Start-up Voltage(VDC)           | 80                                                                                                                                     |                                    |                                    |
|                   | Max PV Open Circuit Voltage (VDC)  | 500                                                                                                                                    |                                    |                                    |
|                   | Max PV Charge Current (A)          | 120                                                                                                                                    |                                    |                                    |
|                   | Max AC Charge Current (A)          | 120                                                                                                                                    |                                    |                                    |
|                   | Max. Charge Current (PV + AC)(A)   | 120                                                                                                                                    |                                    |                                    |
| Interface         | Rated Voltage (VDC)                | 48                                                                                                                                     |                                    |                                    |
|                   | Floating Charge Voltage (VDC)      | 54                                                                                                                                     |                                    |                                    |
|                   | Overcharge Protection (VDC)        | 61                                                                                                                                     |                                    |                                    |
|                   | Battery Type                       | Lithium and Lead -acid                                                                                                                 |                                    |                                    |
| General Data      | HMI                                | LCD                                                                                                                                    | LCD                                | LCD                                |
|                   | Interface                          | RS232/RS485/CAN                                                                                                                        | RS232/RS485/CAN/Parallel Interface | RS232/RS485/CAN/Parallel Interface |
|                   | Monitoring                         | WiFi (Optional: None/ Internal / External)                                                                                             | WiFi(optional/built-in-external)   | WiFi(optional/built-in-external)   |
| General Data      | Ingress Protection                 | IP21                                                                                                                                   |                                    |                                    |
|                   | Operating Temperature              | -10°C~60°C                                                                                                                             |                                    |                                    |
|                   | Relative Humidity                  | 5%~95% (Non-condensing)                                                                                                                |                                    |                                    |
|                   | Storage Temperature                | -15°C~60°C                                                                                                                             |                                    |                                    |
|                   | Net Weight (kg)                    | 8.4                                                                                                                                    |                                    |                                    |
|                   | Dimensions (W*H*D)                 | 394*326*110mm(without bracket)                                                                                                         |                                    |                                    |
|                   | Max.Operating Altitude             | 4000m (Derating above 1000m)                                                                                                           |                                    |                                    |
|                   |                                    |                                                                                                                                        |                                    |                                    |

## AC Input

|                           |                                           |
|---------------------------|-------------------------------------------|
| Rated Input Voltage (VAC) | 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)              | 12                                    |
| Surge Power (kVA)                | 24                                    |
| Voltage (VAC)                    | 220/230/240                           |
| Power Factor (PF)                | 1                                     |
| Frequency                        | 50/60Hz±0.1%                          |
| Switch Time (ms)                 | 10(APP/UPS mode) 20(GEN mode)         |
| Wave Form                        | Pure Sine Wave                        |
| Overload Capacity (Battery Mode) | 1min@102%~125%Load<br>10s@ > 125%Load |
| Max. Efficiency (Battery Mode)   | 94%@48VDC                             |
| Parallel Quantity                | NA                                    |

## Charger (PV / AC)

|                                    |                                                                        |
|------------------------------------|------------------------------------------------------------------------|
| Solar Charger Type                 | Dual MPPTs                                                             |
| Max PV Input Current / input Power | Using One MPPT: 27A/9KW<br>Using Two MPPTs: 22.5A/Per MPPT, 15kW/Total |
| MPPT Range@Operating Voltage (VDC) | 60~450                                                                 |
| PV Start-up Voltage(VDC)           | 80                                                                     |
| Max PV Open Circuit Voltage (VDC)  | 500                                                                    |
| Max PV Charge Current (A)          | 160                                                                    |
| Max AC Charge Current (A)          | 160                                                                    |
| Max. Charge Current (PV + AC)(A)   | 160                                                                    |

## Battery

|                               |                        |
|-------------------------------|------------------------|
| Rated Voltage (VDC)           | 48                     |
| Floating Charge Voltage (VDC) | 54                     |
| Overcharge Protection (VDC)   | 61                     |
| Battery Type                  | Lithium and Lead -acid |

## Interface

|            |                                            |
|------------|--------------------------------------------|
| HMI        | LCD                                        |
| Interface  | RS232/RS485/CAN                            |
| Monitoring | WiFi (Optional: None/ Internal / External) |

## General Data

|                        |                                |
|------------------------|--------------------------------|
| Ingress Protection     | IP21                           |
| Operating Temperature  | -10°C~60°C                     |
| Relative Humidity      | 5%~95% (Non-condensing)        |
| Storage Temperature    | -15°C~60°C                     |
| Net Weight (kg)        | 15                             |
| Dimensions (W*H*D)     | 495*425*120mm(without bracket) |
| Max.Operating Altitude | 4000m (Derating above 1000m)   |