



BLUE CARBON TECHNOLOGY INC.



Blue Carbon



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<https://www.bluecarbontech.com.cn/en/>
<https://bluecarbon.solar/>

Office Location

Building A, International Fortune Center, Rizhao City,
Shandong Province, China

Blue Carbon

Photovoltaic Generation-
Storage-Application System Supplier



Resolve the electricity bill burden on the electricity meter owner,
provide stable power energy

One-stop Solution

COMPANY PROFILE

Office Location
Blue Carbon

-  **23** Industrialization 5.0 factories
-  **20%** Annual revenue invested in R&D of new products
-  **100+** There are distributors and partners in various countries and regions.
-  **100+** Patent certificate
-  **ODM** ODM service

MISSION

- Infinite sunlight, a world without wires.

VISION

- Empowering Energy Freedom with Sunshine.

VALUES

- Storage as the Source, Households as the Grid, Storage Source and Household Grid.

Blue Carbon replaces the need for electricity freedom with sunlight coverage. We address issues such as insufficient power supply and high electricity costs for homeowners, offering comprehensive solutions for the construction, operation, and management of green energy assets. With our own R&D, design, production, and sales operation system, we have independently developed energy storage systems and integrated modules and other applications that provide solutions and system integration for various scenarios, including industrial and commercial energy storage solutions, residential balcony independent power stations, new energy transportation charging and storage, and smart parks.

We have 23 distributed industrialization 5.0 factories, multiple large photovoltaic module workshops with an annual production capacity of 2GW, and over 100 regional warehousing centers, we have established a comprehensive industrial chain service system encompassing manufacturing, sales and services.

We look forward to joining hands with friends, partners, and suppliers who are equally committed to the development of the new energy industry, to collectively welcome the era of photovoltaic alternative energy.

Our services:

We focus on solving grid connection issues, establishing stable and affordable independent power grids, providing products and solutions for free energy, integrating industry resources, and are committed to offering comprehensive micro-energy storage system solutions and high-quality products for users across various fields.

Our commitment:

We deliver quality and warranty that exceeds industry standards. With direct subsidiaries in multiple countries and over 100 regional warehousing centers, we ensure the fastest and most reliable service support.

We are looking for:

Power service companies, government energy departments, B2B procurement managers, solar energy solution providers, engineering project service providers, energy retailers, energy solution companies, smart energy enterprises, companies in the energy transition sector, EPC contractors and renewable energy investors.

Development History

Enterprise was established in Rizhao

The establishment of Blue Carbon Technology Inc. marked that the company had embarked on a new journey. With its headquarter moved from Qingdao to Rizhao, we based ourselves on the new energy industry, and committed ourselves to developing the company into a new energy leader with international visions and influences as well as a practice of real innovations.

2009-2013

Blue Carbon continuously developed and won widespread praise and great reputation both domestically and internationally in just four years, successfully entering the recognized brand list in the Southeast Asia's photovoltaic industry.

Launch of the 3.2V solar storage lighting system

Solar Garden Apple Light came out. Blue Carbon pioneered the 3.2V solar light system, with built-in lithium iron phosphate batteries used in solar lights, achieving a disruptive technological breakthrough in the industry. The three-in-one solar panel, LED light source, and lithium iron phosphate battery enhance the lifespan of the solar street light, significantly curtail costs, and boost product cost-effectiveness.

Extension of product category

Blue Carbon deeply cultivated new product research and development, and launched a diversified product line covering 5 Tian series solar lighting products as well as solar floodlights, municipal AC lights and commercial lighting products during the same period, achieving comprehensive broadening and expansion of its product categories.

Development of Solar Energy Storage

While consolidating the solar lighting market, we were also keenly adjusting our research and development direction and actively entering the vast blue ocean of solar energy storage.

Market expansion for heating and cooling products

In the face of the rigid demand for heating and cooling products in the market, we quickly responded and meticulously developed and launched a series of photovoltaic heating and refrigeration products to meet the urgent needs of the market, taking the lead in filling the gap of such products in the industry.

Zero-Carbon Park, Innovation leads the way.

In deep collaboration with the government, we have launched integrated products to set a benchmark for zero-carbon industrial parks. With increased investment in R&D, the laboratory data attenuation rate of our energy storage system is 30% lower than the industry average, demonstrating our continuous innovation vitality.

2009

2013

2014

2016

2017

2018

2019

2021

2022

2023

2024

2025

Collaboration on solar street light development

Blue Carbon ushered in a new opportunity for development. We reached strategic cooperation with the postal bureaus of Shandong and Shanxi provinces by officially signed a provincial cooperation agreement, with a focus on opening up the solar street light market together.

Globalization Layout

Blue Carbon opened a new chapter in internationalization. The official establishment of offices in Myanmar and Cambodia marked the initial layout of globalization strategy and a new level of enterprise development.

Stabilize the market

BCT has stably served many countries and regions around the world, and has formed a good and stable cooperative relationship. Direct sales showrooms and operation centers are located in more than 100 countries and regions around the world.

Enhance production capacity

We vigorously invested in automated production equipment for micro energy storage products, established 15 distributed and highly automated production bases, and achieved efficient production of micro energy storage products, with an annual output exceeding 500,000 units.

Continuous innovation, sustainable development

Two highly automated factories were under construction with the aim of continuously increasing production capacity and creating the best conditions to meet the growing market demand.

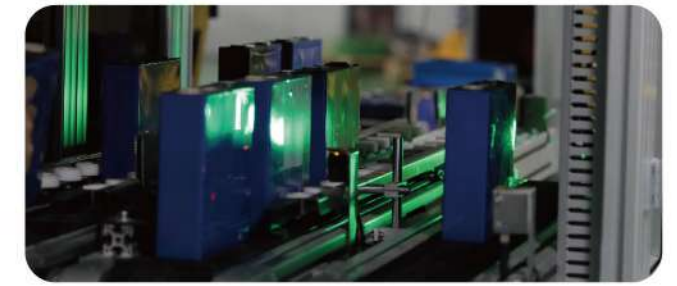
Dual-driven strategy, deepening energy expertise

Focus on the dual-driven strategy of technology and service, we are strengthening our localized service team system to achieve our corporate vision of "Let sunlight shine everywhere, enabling freedom in electricity usage" as soon as possible. We continue to deepen our industry expertise alongside fellow travelers committed to the development of new energy.

CORPORATE HONOR



Competitiveness comes from product quality



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Integration Standard Solution

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PELLET POWER STATION

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PORTABLE SYSTEM

Solar Home System

Portable Micro-energy Storage System

Aio For Generation, Storage and Application

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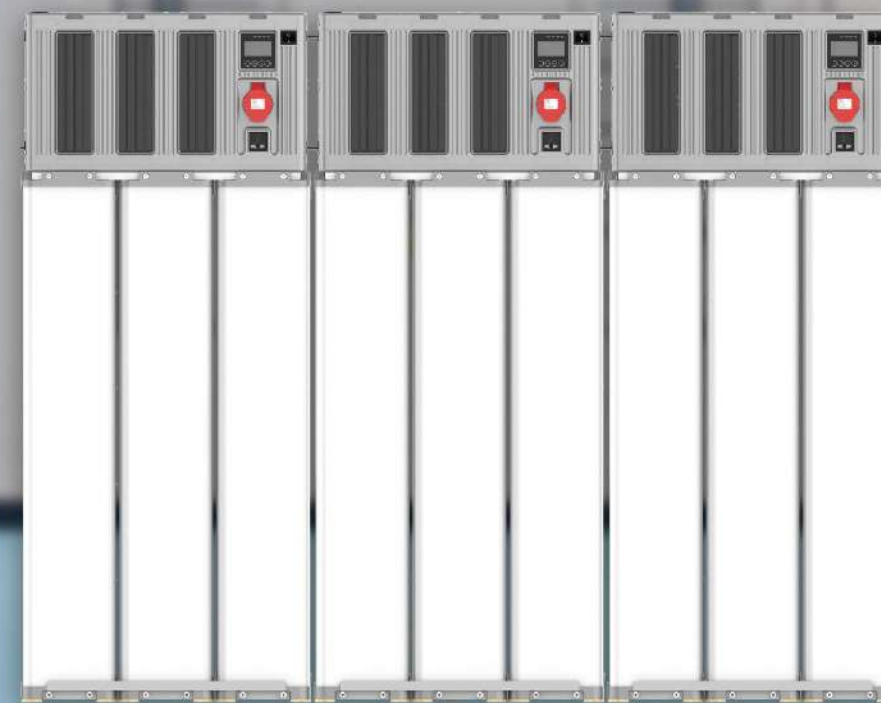
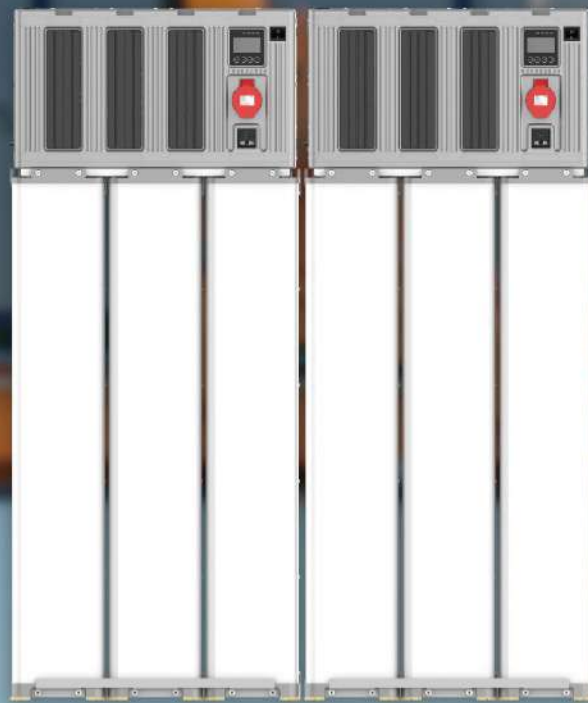


380V System Solution

- The residential power grid is transformed into a manufacturing plant.

Off-Grid PV Support — 380V Output

- Addressing the power supply for small production units.
- Providing efficient and stable solutions for high-power electrical equipments.





In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Suitable for charging piles larger than 7kW, industrial and commercial heating heat pumps, booster pumps, circulation pumps, irrigation pumps, electric lights and other projects.

380V/18kW 45kWh

Charging, Storage and Inversion Integration Standard Solution
Introduction to Standard Solutions



LCD Smart Display

380V Output
220V Output

Compatible with sockets of different voltage specifications
Cannot be used at the same time

Technical Parameters

Battery Parameter

Nominal capacity	900Ah
Nominal voltage	48V
Electricity(kWh)	45kWh

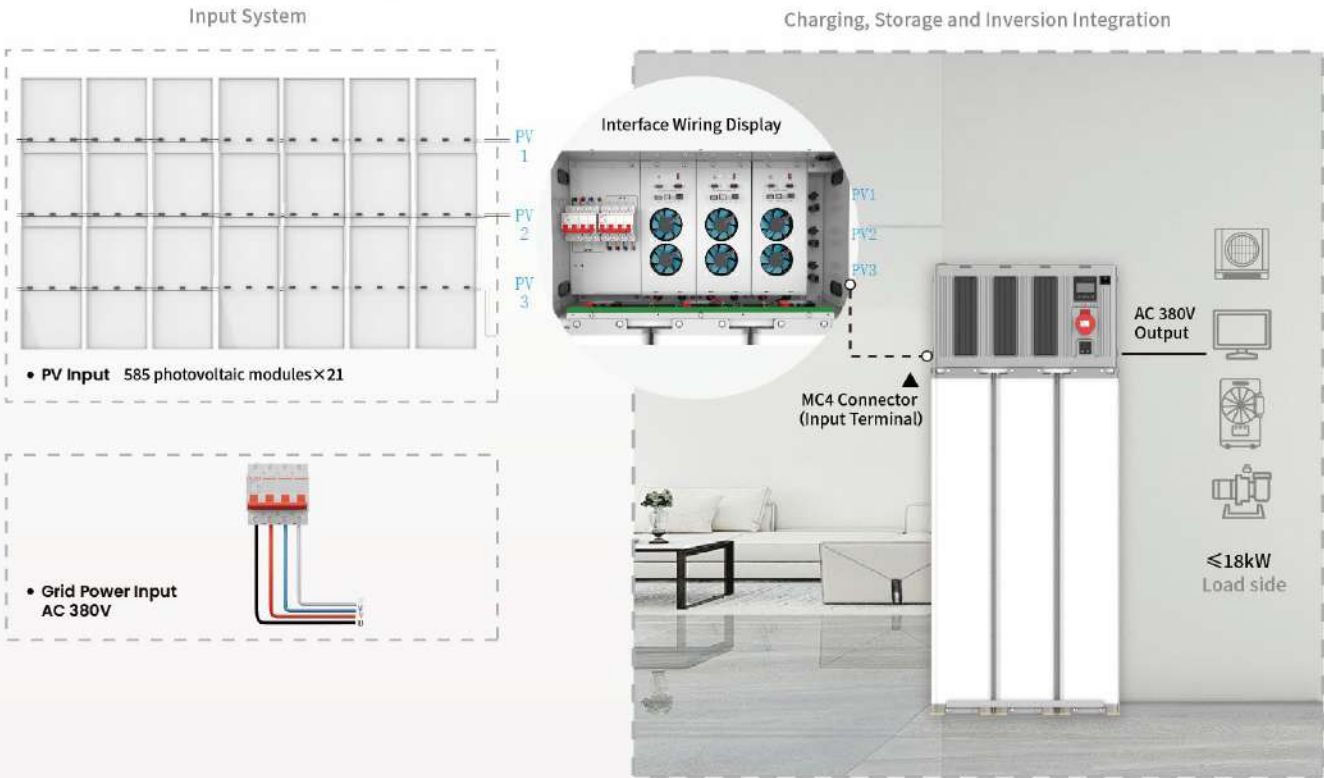
Inverter AC Output

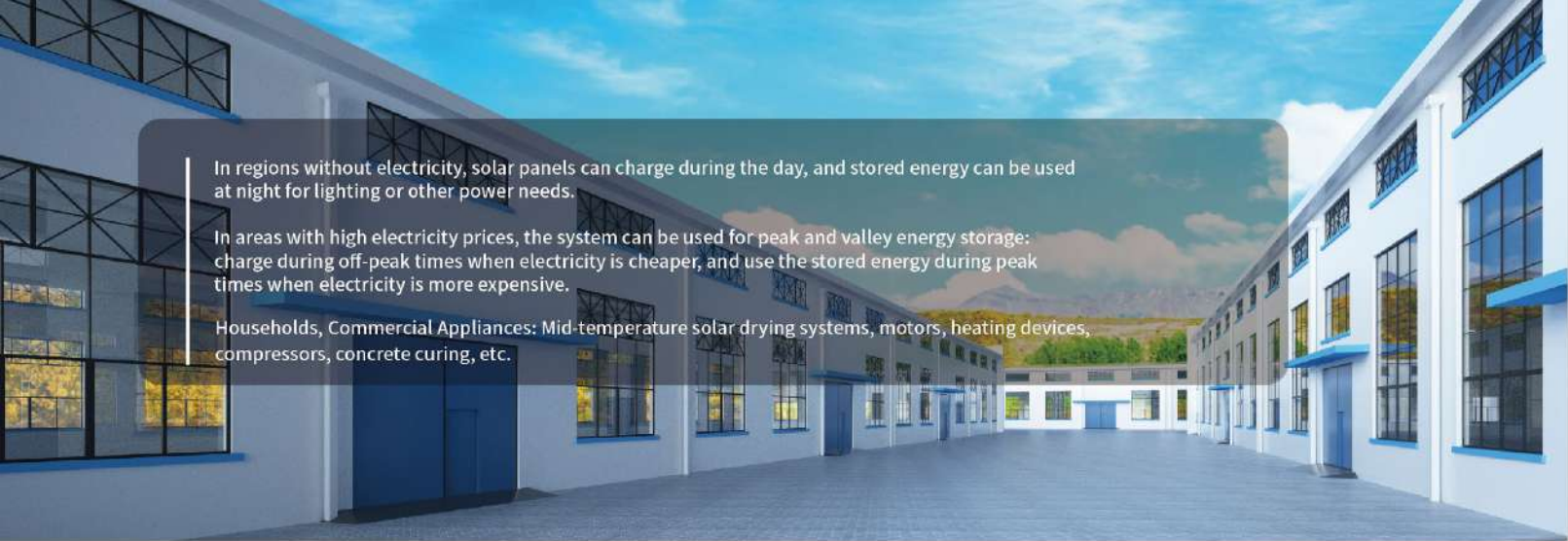
Max power (kw)	18kW
Voltage (VAC)	360/380/397/415
Power factor (PF)	1
Frequency	50/60Hz±0.1%
Switch time (ms)	10(normal mode)/ 10(UPS mode)
Wave form	Pure sine wave
Overload capacity (battery mode)	60s@102%~110% load;10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (battery mode)	93%@48VDC
Max.Parallel Quantity	3 groups(54kWh)

Photovoltaic/AC Input

Rated input voltage (VAC)	360/380/397/415;U+V+W+N+PE
Phase voltage range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar charger type	MPPT
Max PV input current / input power	18A/6000W ×3
PPT range@operating voltage per unit (VDC)	120~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	240
Max AC charge current (A)	240
Max. charge current (PV + AC)(A)	240

System Connection Display





In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Households, Commercial Appliances: Mid-temperature solar drying systems, motors, heating devices, compressors, concrete curing, etc.

380V/36kW 90kWh

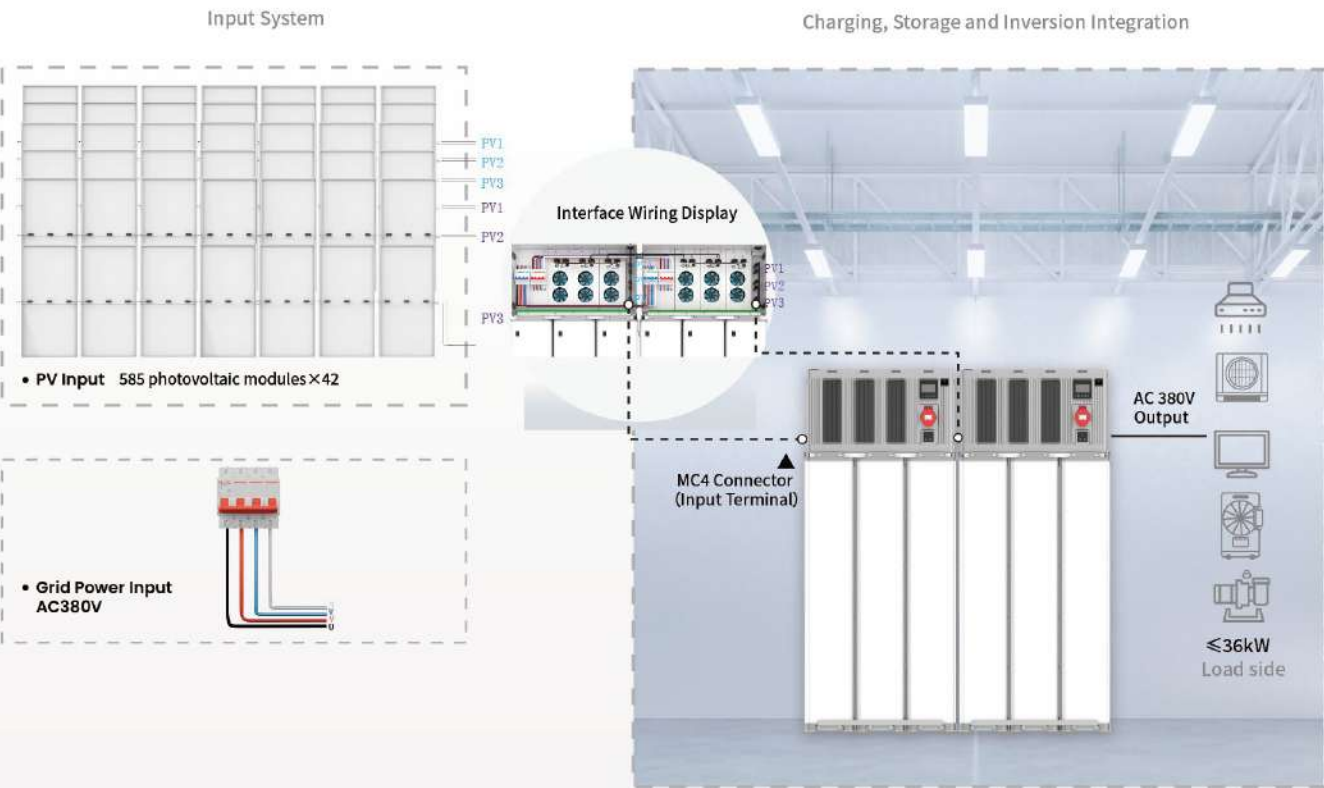
Charging, Storage and Inversion Integration Standard Solution
Introduction to Standard Solutions



Technical Parameters

Battery Parameter		Photovoltaic/AC Input	
Nominal capacity	1800Ah	Rated input voltage (VAC)	360/380/397/415;U+V+W+N+PE
Nominal voltage	48V	Phase voltage range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Electricity(kWh)	90kWh	Frequency (Hz)	50/60(auto adaptive)
Inverter AC Output		Solar charger type	MPPT
Max power (kw)	36kW	Max PV input current / input power	18A/6000W ×6
Voltage (VAC)	360/380/397/415	MPPT Range@Operating Voltage (VDC)	120~450
Power factor (PF)	1	PPT range@operating voltage per unit (VDC)	500
Frequency	50/60Hz±0.1%	Max PV open circuit voltage per unit (VDC)	480
Switch time (ms)	10(normal mode)/ 10(UPS mode)	Max PV charge current (A)	480
Wave form	Pure sine wave	Max AC charge current (A)	480
Overload capacity (battery mode)	60s@102%~110% load;10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load	Max. charge current (PV + AC)(A)	
Max. Efficiency (battery mode)	93%@48VDC		

System Connection Display





In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage; charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Water treatment equipment, high-flow and high-lift submersible pumps, field irrigation, sewage treatment, electric boilers, and air-source heat pump systems.

380V/54kW 135kWh

Charging, Storage and Inversion Integration Standard Solution
Introduction to Standard Solutions



LCD Smart Display



380V Output 220V Output

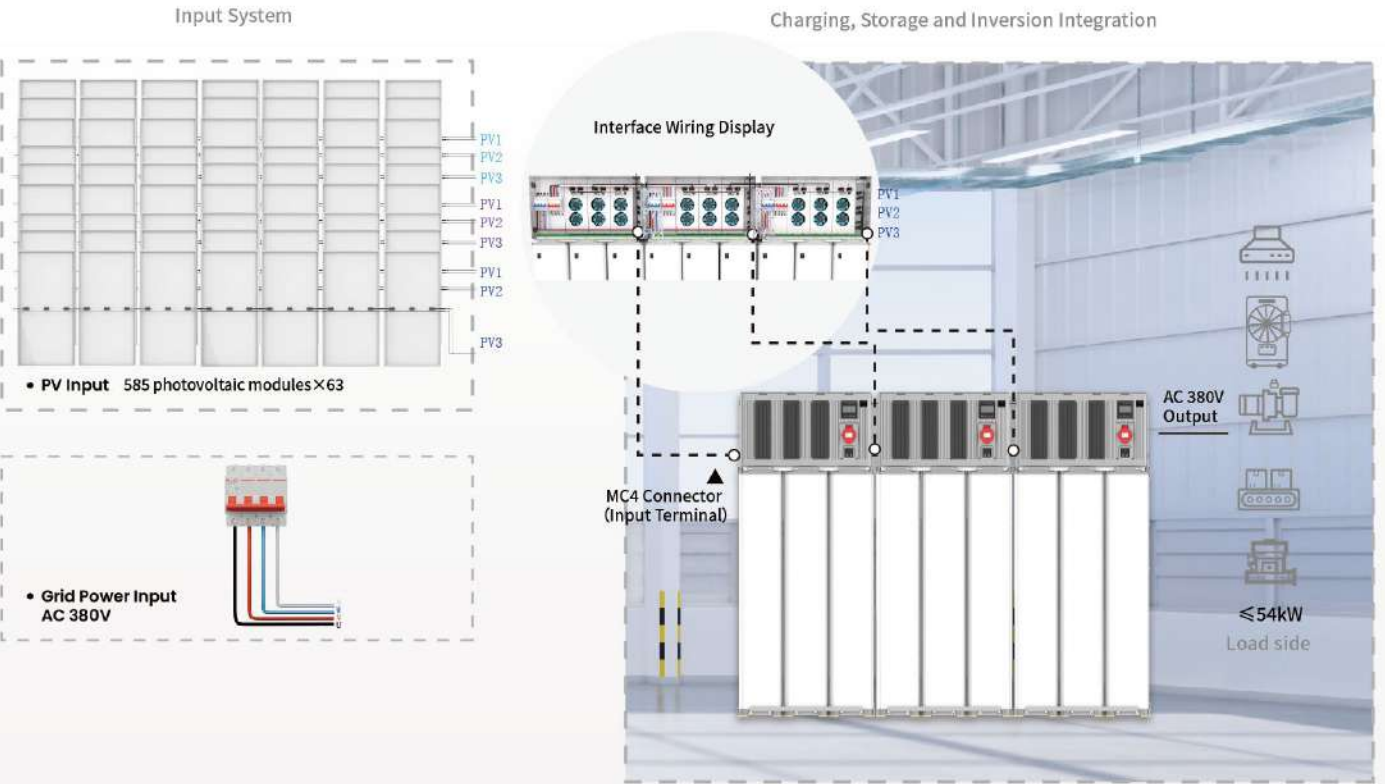
Compatible with sockets of different voltage specifications
Cannot be used at the same time



Technical Parameters

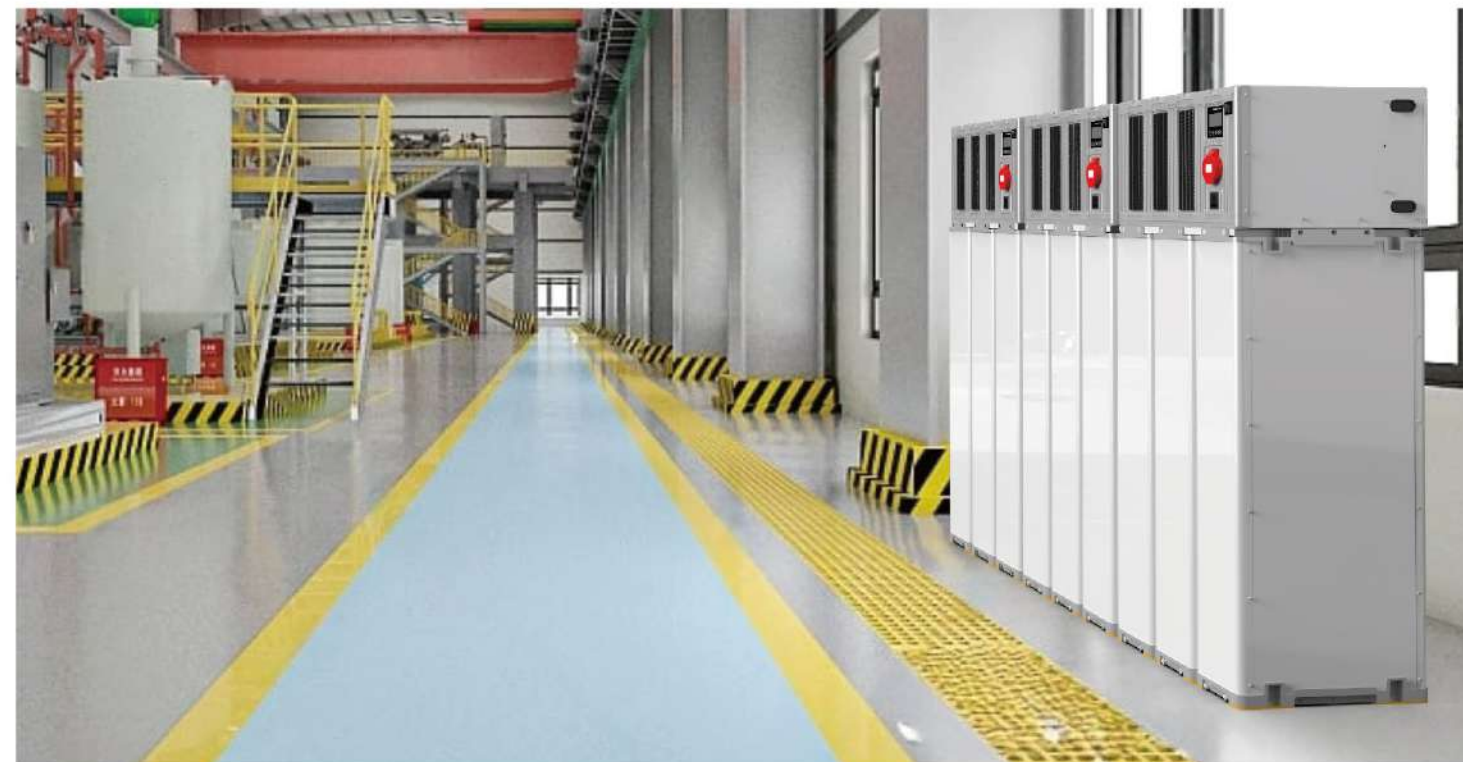
Battery Parameter		Photovoltaic/AC Input	
Nominal capacity	2700Ah	Rated input voltage (VAC)	360/380/397/415;U+V+W+N+PE
Nominal voltage	48V	Phase voltage range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Electricity(kWh)	135kWh	Frequency (Hz)	50/60(auto adaptive)
Inverter AC Output		Solar charger type	MPPT
Max power (kw)	54kW	Max PV input current / input power	18A/6000W ×9
Voltage (VAC)	360/380/397/415	PPT range@operating voltage per unit (VDC)	120~450
Power factor (PF)	1	Max PV open circuit voltage per unit (VDC)	500
Frequency	50/60Hz±0.1%	Max PV charge current (A)	720
Switch time (ms)	10(normal mode)/ 10(UPS mode)	Max AC charge current (A)	720
Wave form	Pure sine wave	Max. charge current (PV + AC)(A)	720
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		

System Connection Display

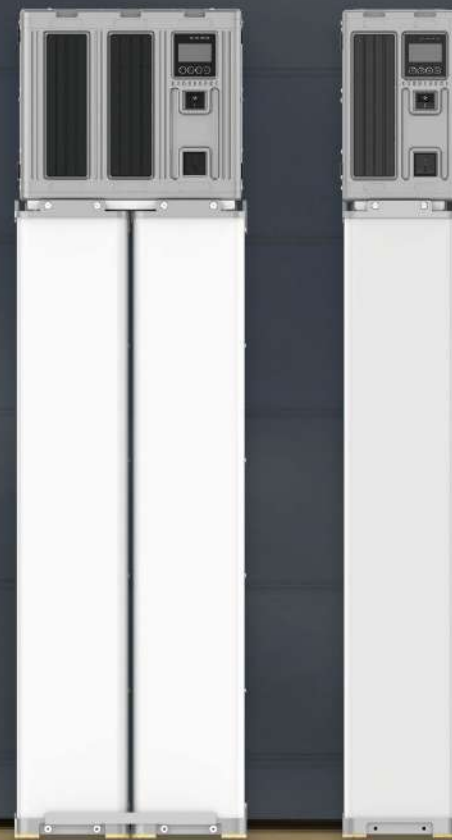




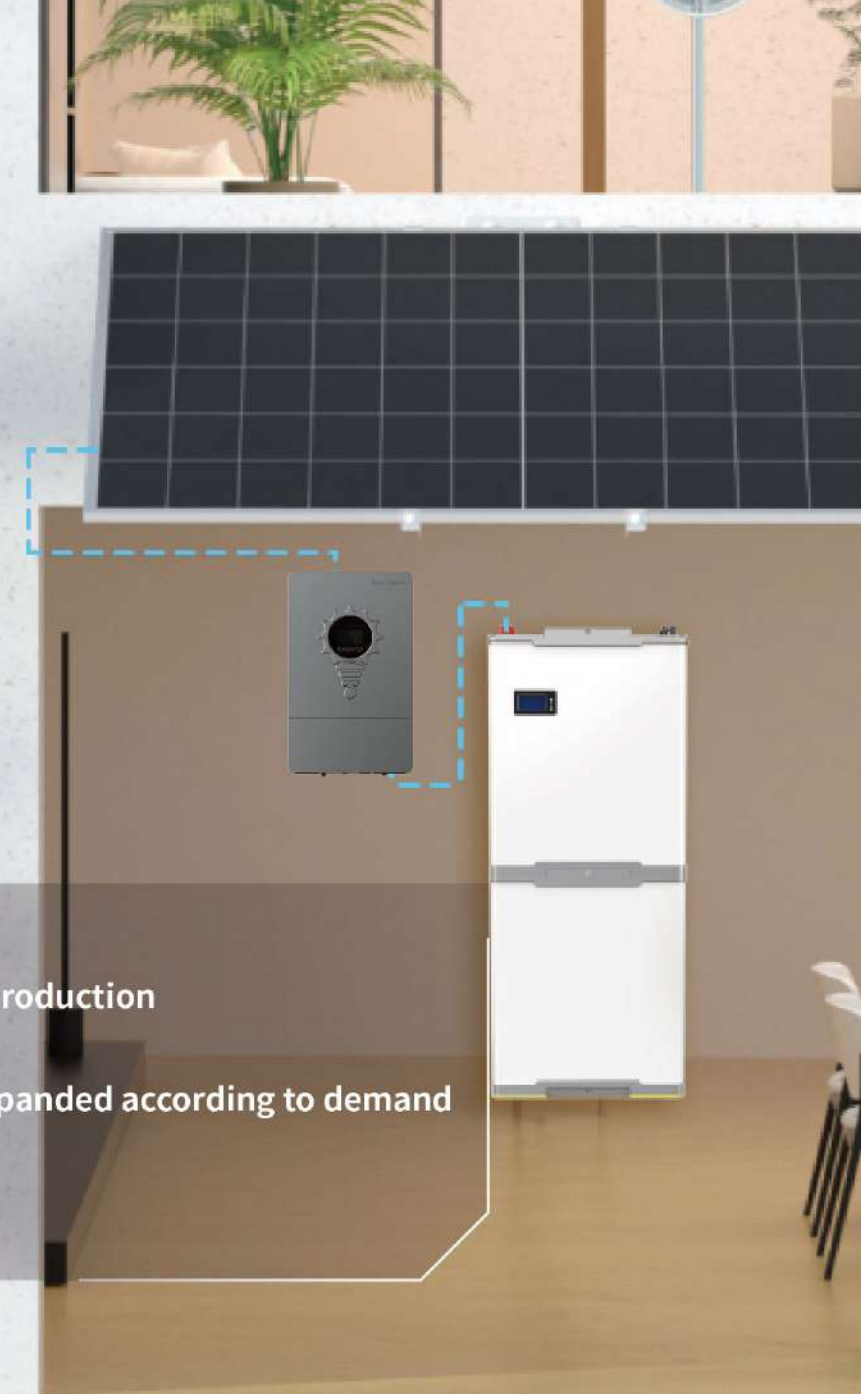
Suitable for equipments and systems covering a wide range of applications including industrial equipment operation, commercial office spaces, water conservancy facilities, hotels and homestays, commercial appliance running, mining machinery, farmland irrigation, sewage treatment, concrete curing, and various production-related fields.



220V System Solution



- Simple installation, modular production
- Battery can be dynamically expanded according to demand
- Flexible installation



220V System Solution

Charging, Storage and Inversion Integration Standard Solutions



Charging, Storage and Inversion Integration System Advantages



Blue Carbon

Integrated packaging for shipment

- System cost is reduced to less than 50%
- All wiring has been completed at the factory to reduce error rate



Safe and worry-free transportation

- Directly shipped to the sea port, ensuring safety and efficiency



Unimpeded customs clearance for sea transportation

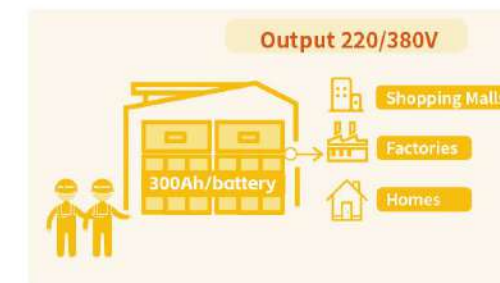
- The high costs of transportation, safety certification, and construction caused by high-voltage systems have been visibly reduced

Factories

Total purchasing price of
220V/380V solar system

=

Product Cost + Logistics Cost
(transportation fee + storage fee
+ load/unloading fee)
+ Inventory Cost + Team Training Cost
+ Installation & Construction Cost



Easy installation, wide usage

- Direct access to users, easy installation, no complicated tools or professional skills required

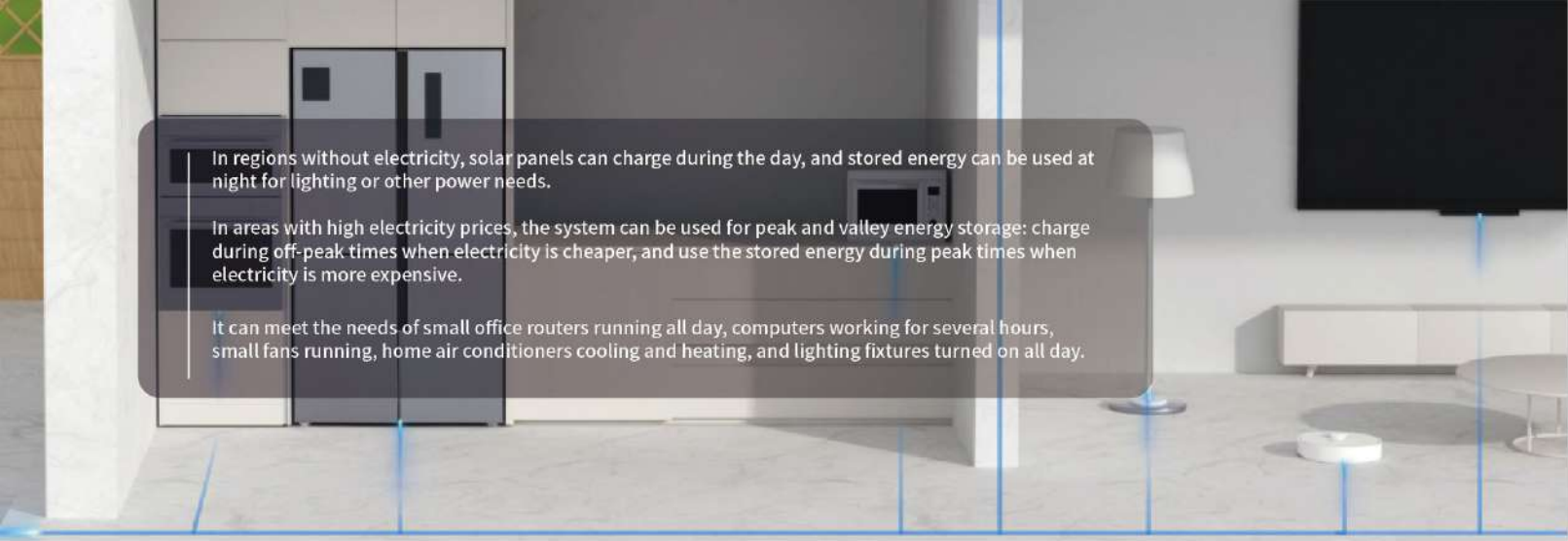
Users



Delivery upon arrival, efficiency highly improved

- Improve logistics efficiency and shorten delivery time

Businesses



In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

It can meet the needs of small office routers running all day, computers working for several hours, small fans running, home air conditioners cooling and heating, and lighting fixtures turned on all day.

220V/6kW 15kWh

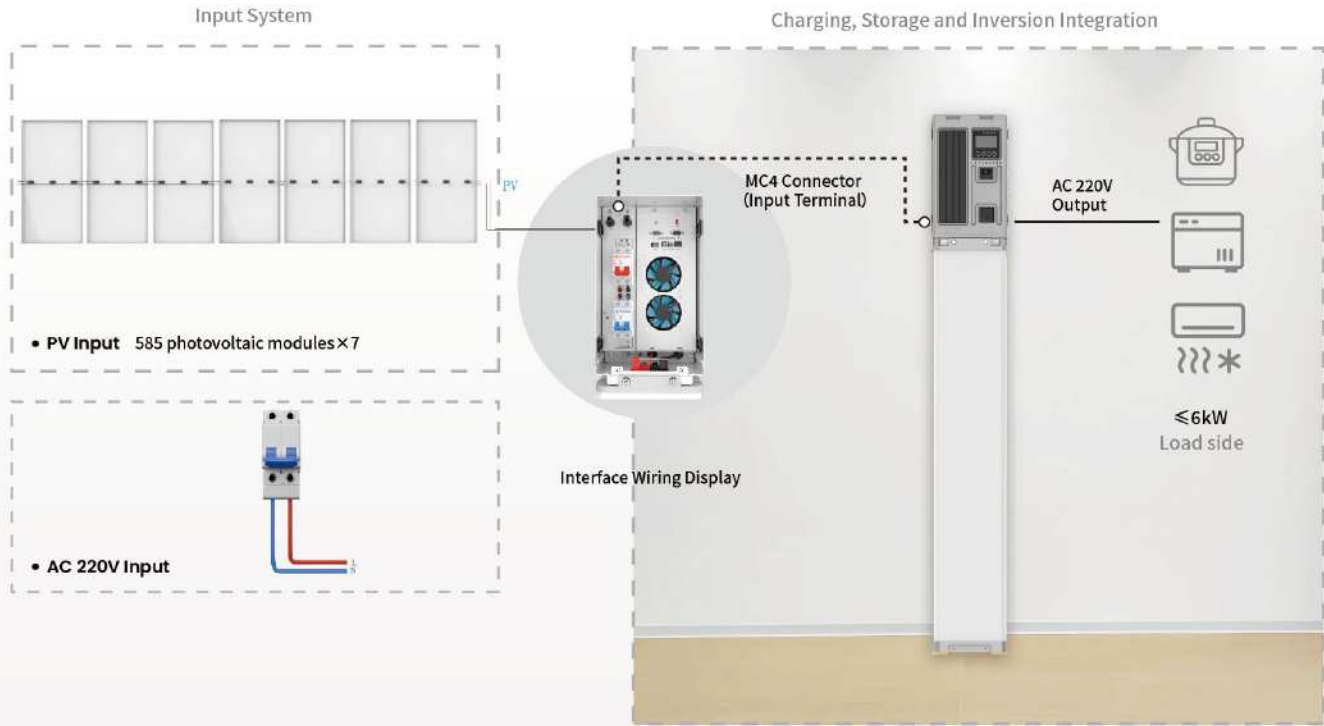
Charging, Storage and Inversion Integration Standard Solution
Introduction to Standard Solutions



Technical Parameters

Battery Parameter		Photovoltaic/AC Input	
Nominal capacity	300Ah	Rated input voltage (VAC)	208/220/230/240;L+N+PE
Nominal voltage	48V	Phase voltage range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Electricity(kWh)	15kWh	Frequency (Hz)	50/60(auto adaptive)
Inverter AC Output		Solar charger type	MPPT
Max power (kw)	6kW	Max PV input current / input power	18A/6000W
Voltage (VAC)	208/220/230/240	MPPT range@operating voltage (VDC)	120~450
Power factor (PF)	1	Max PV open circuit voltage (VDC)	500
Frequency	50/60Hz±0.1%	Max PV charge current (A)	80
Switch time (ms)	10(normal mode)/ 10(UPS mode)	Max AC charge current (A)	80
Wave form	Pure sine wave	Max. charge current (PV + AC)(A)	80
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		
Max.Parallel Quantity	9 groups(54kWh)		

System Connection Display





In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Suitable for projects such as ensuring power supply for daily household appliances, operation of small commercial shops, slow-charging stations, power supply for essential medial equipment, outdoor living and emergency lighting.

220V/12kW 30kWh

Charging, Storage and Inversion Integration Standard Solution
Introduction to Standard Solutions



Technical Parameters

Battery Parameter

Nominal capacity	600Ah
Nominal voltage	48V
Electricity(kWh)	30kWh

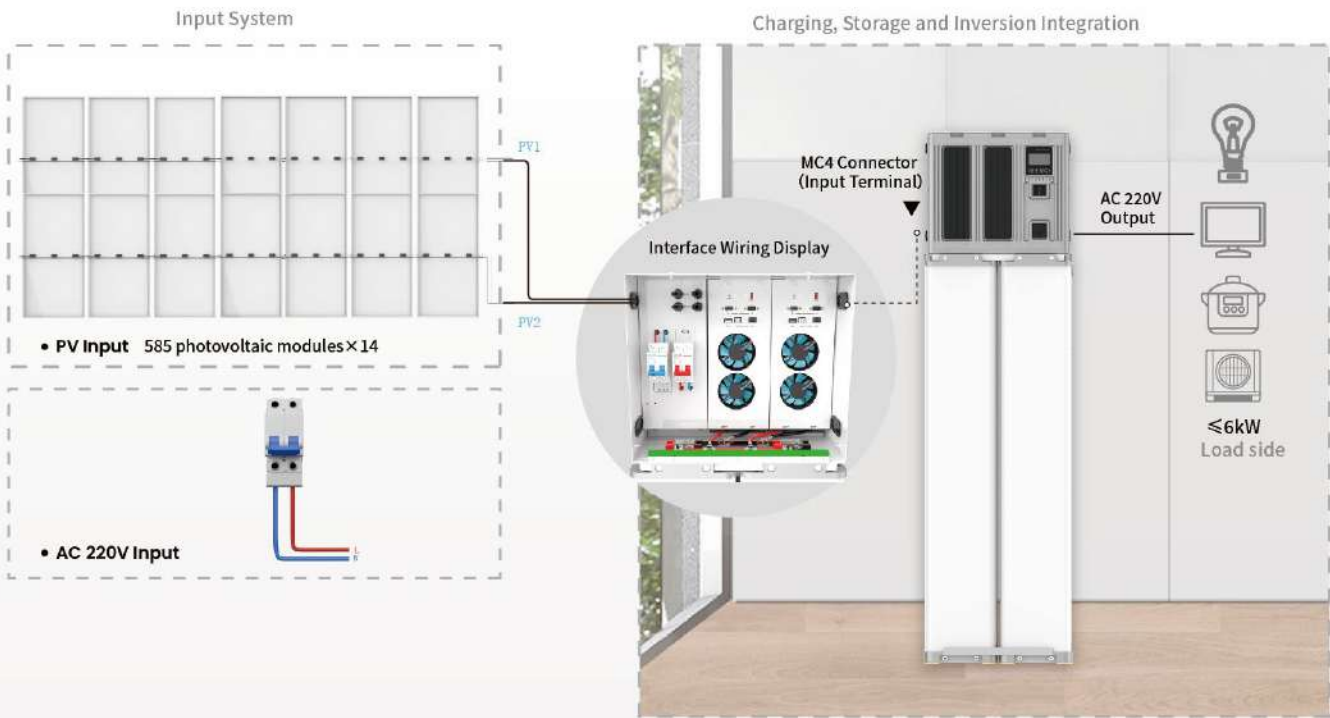
Inverter AC Output

Max power (kw)	12kW
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
Max.Parallel Quantity	4 groups(48kWh)

Photovoltaic/AC Input

Rated input voltage (VAC)	208/220/230/240;L+N+PE
Phase voltage range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar charger type	MPPT
Max PV input current / input power	18A/6000W×2
PPT range@operating voltage per unit (VDC)	120~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	160
Max AC charge current (A)	160
Max. charge current (PV + AC)(A)	160

System Connection Display





Suitable for household energy storage and management, power supply for large appliances; it can set up a home photovoltaic-storage system equipped with photovoltaic components; it can be used as a power supply source or backup power source in remote areas or areas with unstable power supply, and supports charging with renewable energy. It can also meet the needs of daily operations of small businesses and peak-valley arbitrage.



220V System Solution

Power Generation-Storage-Inverter BOX
Standard Solutions

INVERTER BOX

Power Generation-Storage-Inverter BOX

Inverter BOX is mainly composed of solar panel, energy storage battery and inverter. As an off-grid system which operates independently, and integrates power generation, storage and inversion, it can be charged by solar panel, store the solar energy in the battery, and convert it into AC through the inverter to provide power to the load, which solves the problem of electricity in the areas without electricity, areas with inconvenient access to electricity, and areas experiencing power outages.This has a wide range of application scenarios, and it is not affected by the State Grid. It is a home-based power supply solution system.

10/12/15kWh



Technical Parameters

Solar Panel

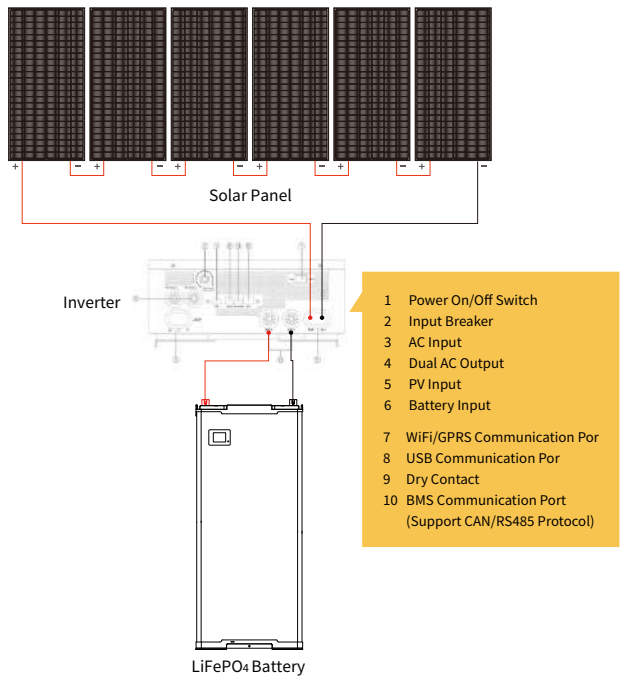
Open-Circuit Voltage (Voc) [V]	49.68V
Optimum Operating Voltage (Vmp) [V]	44.14V
Short-Circuit Current (Isc) [A]	13.50A
Optimum Operating Current (Imp) [A]	12.46A
Wafer Efficiency[%]	23.3%

LiFePO4 Battery

Nominal Voltage	48V
Nominal Capacity	200Ah/250Ah/300Ah
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh

Inverter

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)
Rated Capacity (kw)	6kW
Frequency	50/60Hz±0.1%
Wave Form	Pure Sine Wave
Battery Rated Voltage (VDC)	48



INVERTER BOX

Power Generation-Storage-Inverter BOX

Inverter BOX is mainly composed of solar panel, energy storage battery and inverter. As an off-grid system which operates independently, and integrates power generation, storage and inversion, it can be charged by solar panel, store the solar energy in the battery, and convert it into AC through the inverter to provide power to the load, which solves the problem of electricity in the areas without electricity, areas with inconvenient access to electricity, and areas experiencing power outages.This has a wide range of application scenarios, and it is not affected by the State Grid. It is a home-based power supply solution system.

5/6/7.2kWh



Technical Parameters

Solar Panel

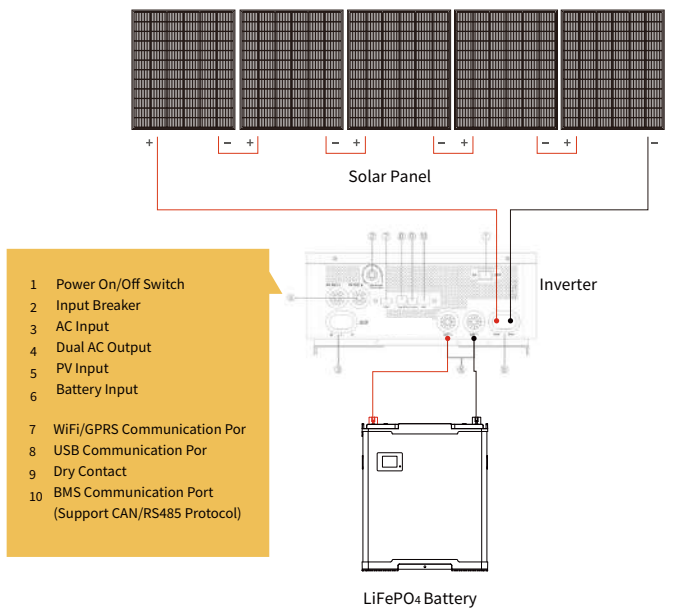
Open-Circuit Voltage (Voc) [V]	49.18V
Optimum Operating Voltage (Vmp) [V]	43.49V
Short-Circuit Current (Isc) [A]	7.61A
Optimum Operating Current (Imp) [A]	6.90A
Component Efficiency[%]	22.1%

LiFePO4 Battery

Nominal Voltage	24V
Nominal Capacity	200Ah/250Ah/300Ah
Electricity(kWh)	5.12kWh/6.4kWh/7.68kWh

Inverter

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)
Max Power (kw)	4kW
Frequency	50/60Hz±0.1%
Wave Form	Pure Sine Wave
Rated Voltage (VDC)	24



220V System Solution

Solar BOX Introduction to Standard Solutions

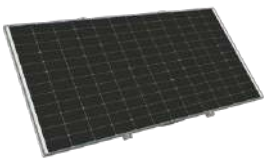


Solar BOX

► Installation on the ground (vertical)



► Installation on the balcony



Holder for 6 pcs LiFePO₄ battery cells

The installation plan should be matched with: optional poles/optional balcony brackets



High efficiency in power generation

Higher power, higher efficiency



Microgrid independent power station

Meeting household power supply needs



Integrated design

With lithium batteries and inverter built-in



Low temperature resistance

Higher load capacity at ultra-low temperatures below minus 40°C

Product configuration

Model: 1KW SOLAR BOX

Solar Panel Peak Power	585W	Number of parallel connections	DC terminals support unlimited parallel connection
Battery Capacity	1.5kWh	Working temperature range	-40°C~+65°C
Weight of battery holder	24.4kg	Storage Temperature Range	Short-Term -20°C-40°C (Within 1 Month)
Cell Type	LiFePO ₄ Battery		Long-Term 10°C-35°C (Within 1 Year)
Input voltage	DC 24V	Storage Humidity	<75% RH
DC Output voltage	DC 320V	Atmospheric Pressure	Below the elevation of 5000m
AC Output voltage	AC 110V/220V	Self-Discharge (25°C)	<3%/Month
Maximum Continuous Output Power	500W(Output voltage AC 110V) 1kW(Output voltage AC 220V)	Depth Of Discharge	>95%
Output Frequency	50Hz/60Hz	C-Rate Discharge	<0.8C
Maximum Continuous Output Current	4.55A	Cycle Life	> 8000 Times (< 0.5C)

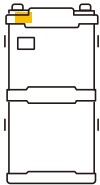


Lithium Battery Pack



Solar Panel

Utilizing sunlight for clean energy charging, which can provide power to household appliances.



12V/24V/48V

Lithium Battery Pack

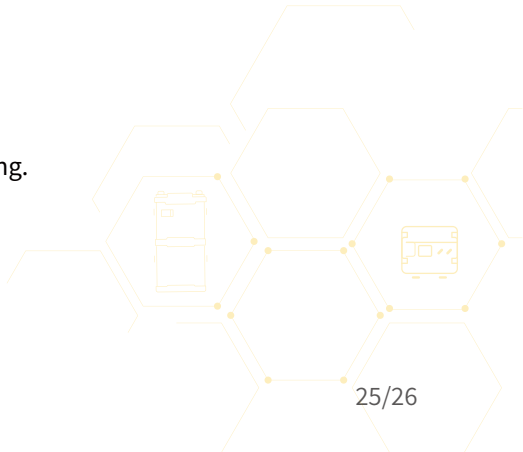
Excess solar energy is stored in batteries during the day and used at night, thus maximizing the utilization rate of solar energy.



Achieving electricity freedom in areas with no or limited power supply.



Using stored energy during blackout to keep appliances running.



Blue Carbon

BCT-V-48-200/250/300

10240wh

12800wh

15360wh

Technical Parameters

Model: BCT-V-48-200/250/300



Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	120A
Maximum Solar Panel Input Current	120A
Overcharge Delay Protection	1000ms

Output

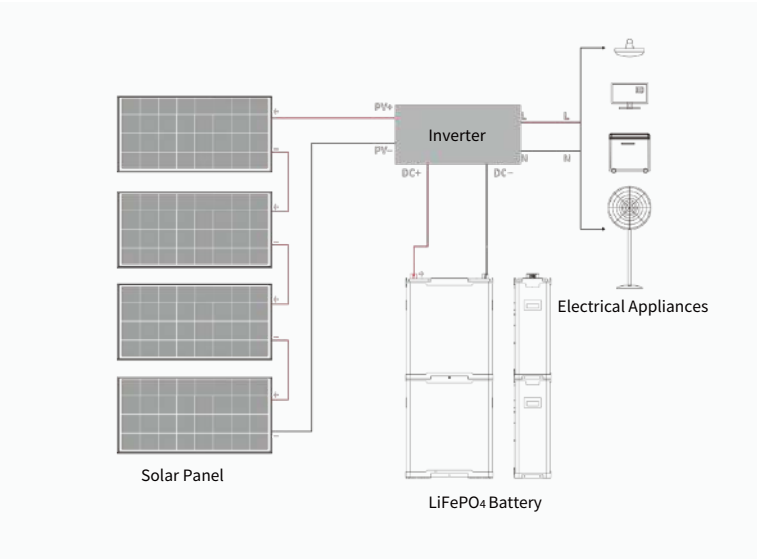
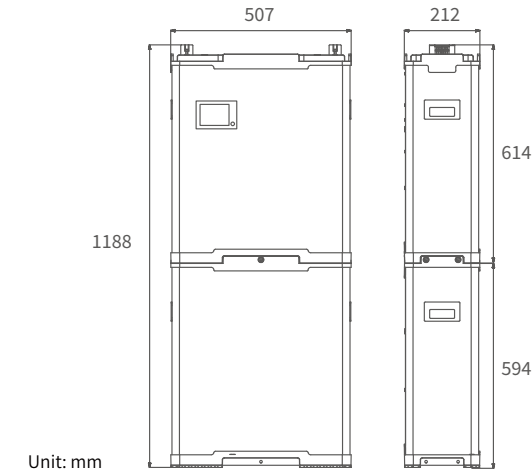
Continuously Use Output Current	120A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	120A
Instant Start Current Time	10S

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

Other

Package Size	668(±2)×605(±2)×678(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM



Blue Carbon

BCT-V-24-200/250/300

5120wh

6400wh

7680wh

Technical Parameters

Model: BCT-V-24-200/250/300



Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	24V(25.6V)
Electricity(kWh)	5.12kWh/6.4kWh/7.68kWh

Input

Full Charge Voltage	29.2V
Maximum Charging Voltage	30V
Input Voltage Range	28V-30V
Continuously Use Input Current	120A
Maximum Solar Panel Input Current	120A
Overcharge Delay Protection	1000ms

Output

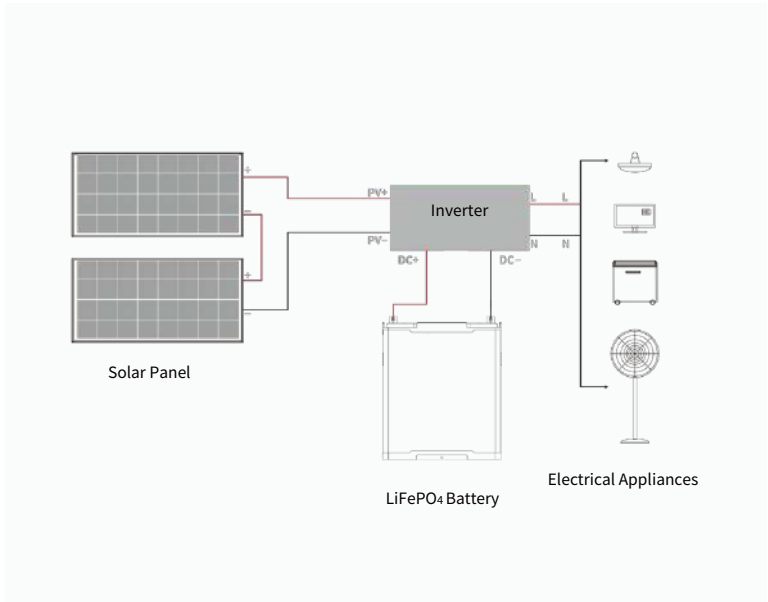
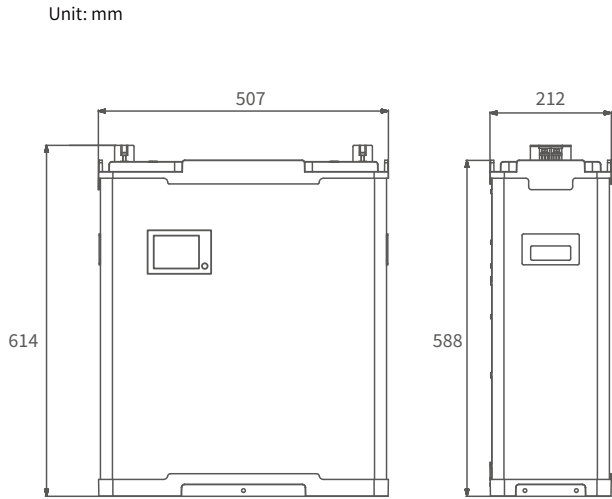
Continuously Use Output Current	120A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	120A
Instant Start Current Time	10S

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

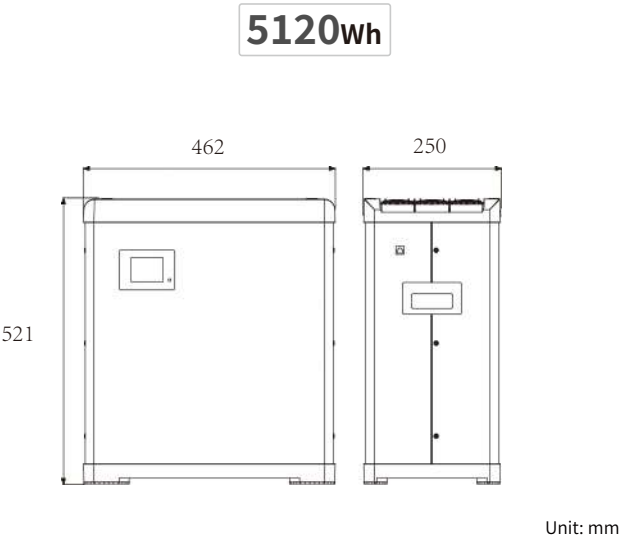
Other

Package Size	668±2×328±2×706±2mm
Certification Standards	UN38.3/CE/MSDS/DGM



Blue Carbon

BCT-V-48-100



Technical Parameters

Model: BCT-V-48-100

Basic Specifications

Nominal Capacity	100Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	5.12kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

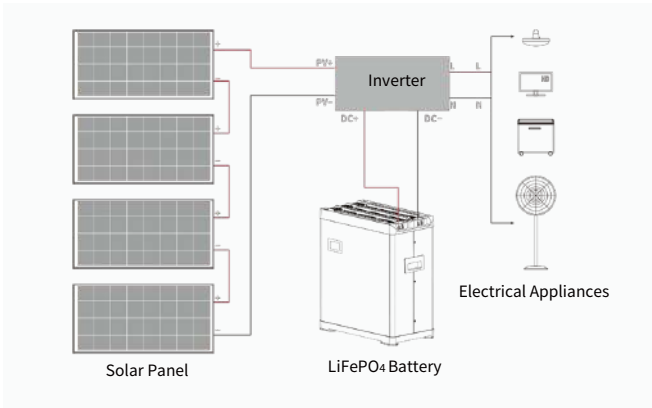
Continuously Use Output Current	80A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	85A
Instant Start Current Time	10s

Other

Package Size	550(±2)×333(±2)×601(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

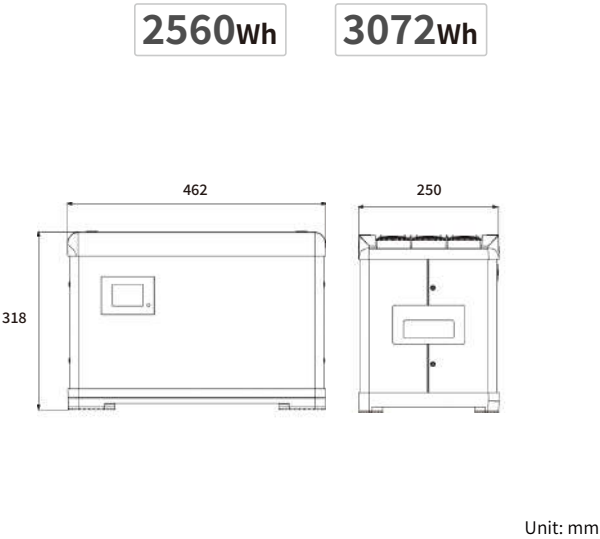
Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)



Blue Carbon

BCT-V-24-100/120



Technical Parameters

Model: BCT-V-24-100/120

Basic Specifications

Nominal Capacity	100Ah/120Ah
Nominal Voltage	24V(25.6V)
Electricity(kWh)	2.56kWh/3.07kWh

Input

Full Charge Voltage	29.2V
Maximum Charging Voltage	30V
Input Voltage Range	28V-30V
Continuously Use Input Current	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

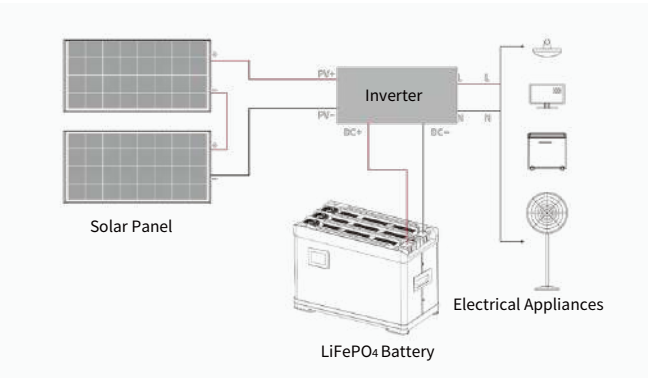
Continuously Use Output Current	80A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	80A
Instant Start Current Time	10s

Other

Package Size	545(±2)×328(±2)×393(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)





Technical Parameters Model: SMART-BCT-V-48-200/250/300(P)

Basic Specifications

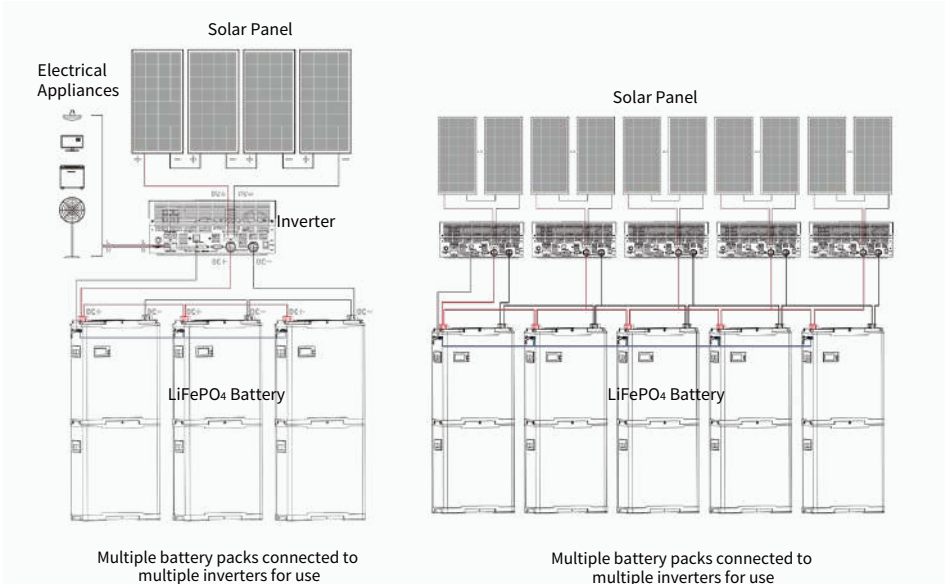
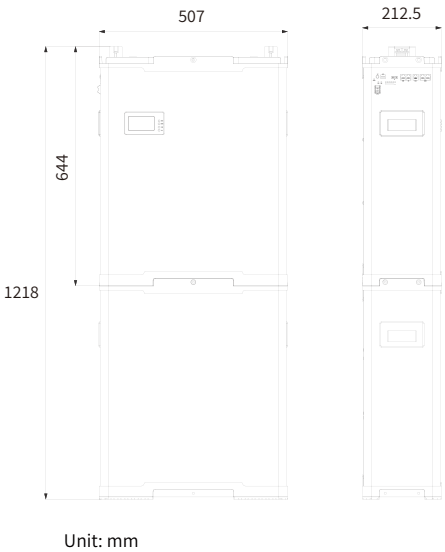
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh
Rated Current	120A

Battery

Communication Interface	RS485/CAN
Storage Temperature Range	-10°C-30°C
Operating Temperature Range	0°C-50°C
Relative Humidity	5-95% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge(25°C)	<3%/month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

Other

Certification Standards	UN38.3/CE/MSDS/DGM
Package Size	668(±2)X605(±2)X731(±2)mm
Parallel	Up to 15 pcs



Technical Parameters Model: SMART-BCT-V-48-100(P)

Basic Specifications

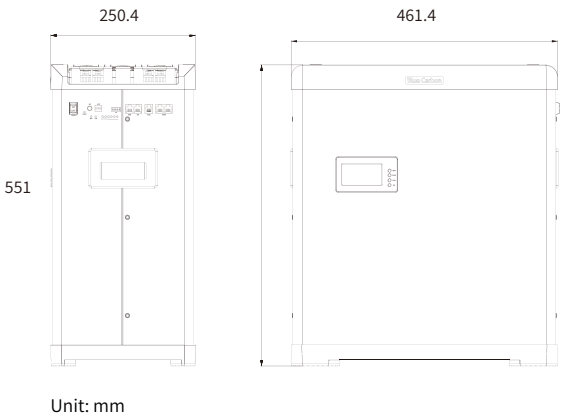
Nominal Capacity	100Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	5.12kWh
Rated Current	80A

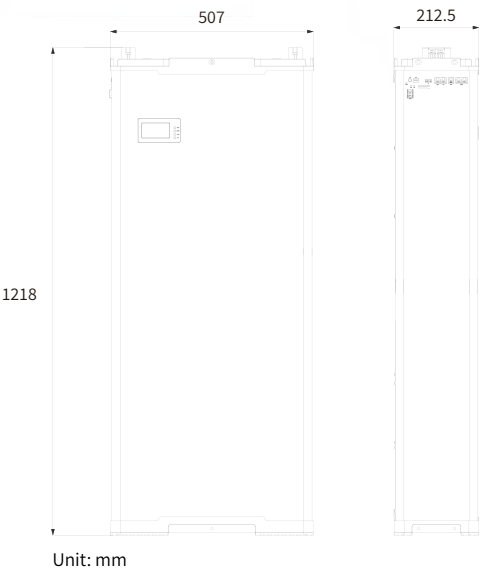
Battery

Communication Interface	RS485/CAN
Storage Temperature Range	-10°C-30°C
Operating Temperature Range	0°C-50°C
Relative Humidity	5-95% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge(25°C)	<3%/month
Depth of Discharge	>80%
C-rate Discharge	≤1C
Cycle Life	> 6000 times (< 0.5C)

Other

Certification Standards	UN38.3/CE/MSDS/DGM
Package Size	550(±2)X333(±2)X631(±2)mm





Technical Parameters

Model: SMART-BCT-VI-48-200/250/300(P)

Basic Specifications

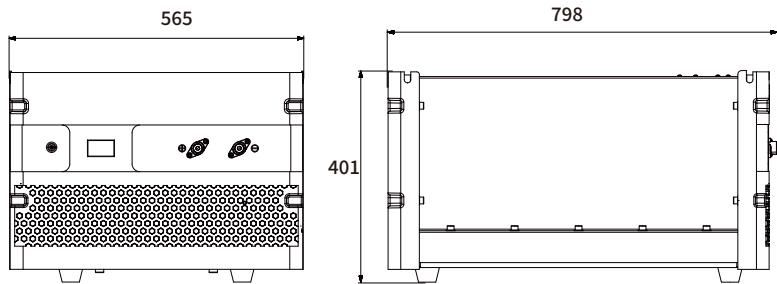
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh
Rated Current	120A

Battery

Communication Interface	RS485/CAN
Storage Temperature Range	-10°C-30°C
Operating Temperature Range	0°C-50°C
Relative Humidity	5-95% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge(25°C)	<3%/month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

Other

Certification Standards	UN38.3/CE/MSDS/DGM
Parallel	Up to 15 pcs



Technical Parameters

Model: BCT-UU 48-200/250/300

Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	120A
Maximum Solar Panel Input Current	120A
Overcharge Delay Protection	1000ms

Output

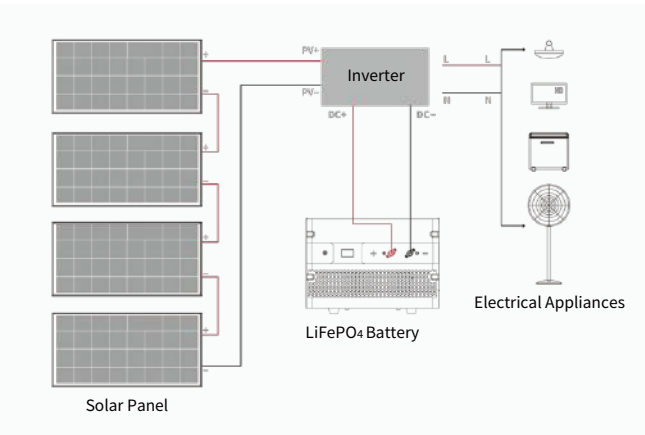
Continuously Use Output Current	120A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	120A
Instant Start Current Time	10s

Other

Package Size	903(±2)×671(±2)×451(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)



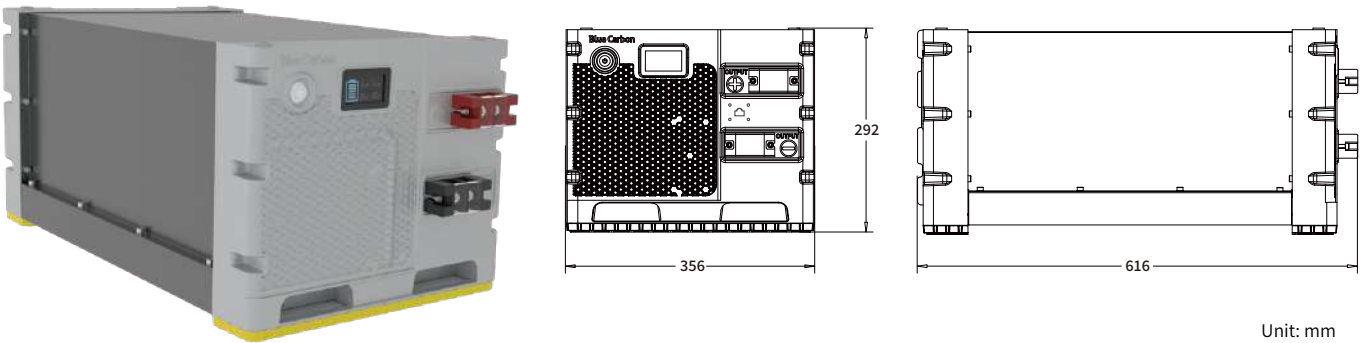
Blue Carbon

BCT-UU 24-200/250/300

5120Wh

6400Wh

7680Wh



Unit: mm

Technical Parameters

Model: BCT-UU 24-200/250/300

Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	24V(25.6V)
Electricity(kWh)	5.12kWh/6.4kWh/7.68kWh

Input

Full Charge Voltage	29.2V
Maximum Charging Voltage	30V
Input Voltage Range	28V-30V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
Overcharge Delay Protection	1000ms

Output

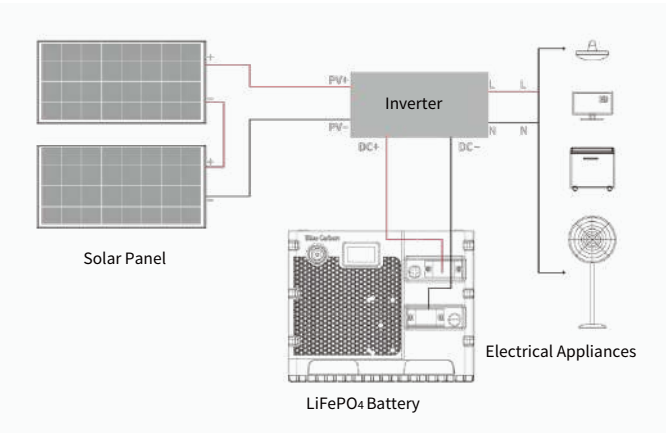
Continuously Use Output Current	100A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	400A
Instant Start Current Time	10S

Other

Package Size	680(±2)×430(±2)×372(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)



Blue Carbon

BCT-UU 12-200/250/300

2560Wh

3200Wh

3840Wh



Unit: mm

Technical Parameters

Model: BCT-UU 12-200/250/300

Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	12V(12.8V)
Electricity(kWh)	2.56kWh/3.2kWh/3.84kWh

Input

Full Charge Voltage	14.6V
Maximum Charging Voltage	15V
Input Voltage Range	14V-15V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
Overcharge Delay Protection	1000ms

Output

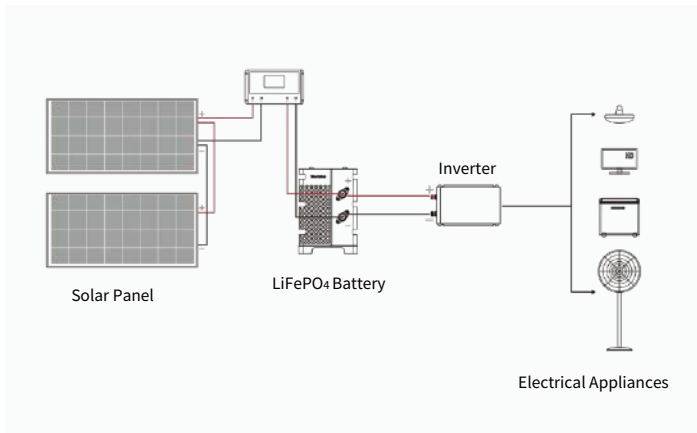
Continuously Use Output Current	100A
Discharge Cut-off Voltage	10V-12V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	400A
Instant Start Current Time	10S

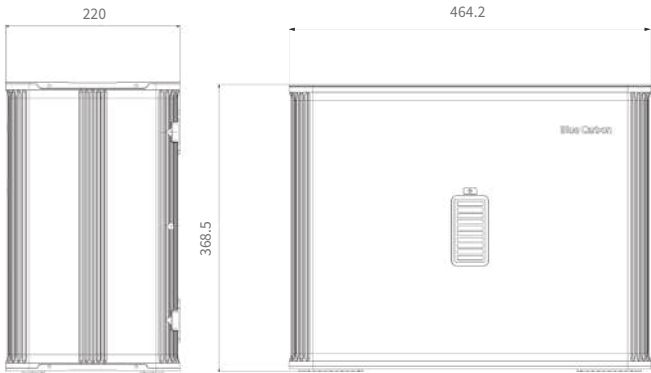
Other

Package Size	575(±2)×260(±2)×335(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)





Unit: mm

Technical Parameters

Model: BCT-T-48-100

Basic Specifications

Nominal Capacity	100Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	5.12kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

Continuously Use Output Current	80A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	0.3ms
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	80A
Instant Start Current Time	5000ms

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	≤1C
Cycle Life	> 6000 times (< 0.5C)

Other

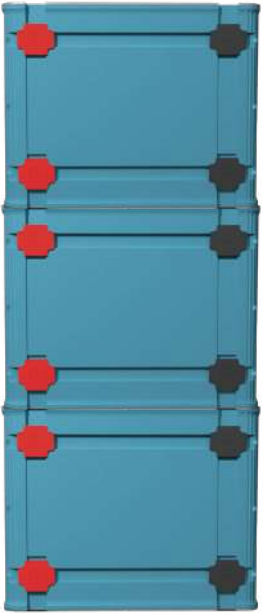
Product Size	464.2(±2) × 368.5(±2) × 220(±2)mm
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Switch

Power Indicator Light

Unlimited Parallel Connection



Multiple color combinations

This product is not only a safe power source, but also a system that can supply power to various locations and ensure the normal operation of electrical appliances when there is no electricity or blackout.

Unlike generators, lithium iron phosphate battery packs require no maintenance, consume no fuel and produce no noise, keeping your lights on and your appliances running.



Pellet Power Station

Photovoltaic-Storage Integration

They are usually used by households, or Merchants with electricity needs.
They can output DC directly or AC with an external inverter.

AC/DC Systems

- Supply power dynamically in multiple voltage modes
(It can support multiple voltage modes such as 12V, 24V, 48V, etc.)
- Highly expandable, compatible with external inverter
- Infinite multiple-groups connection in parallel

DC electronic applications, off grid solar system etc.

DC Output

× N

AC Output

AC electronic applications, off grid solar system etc.

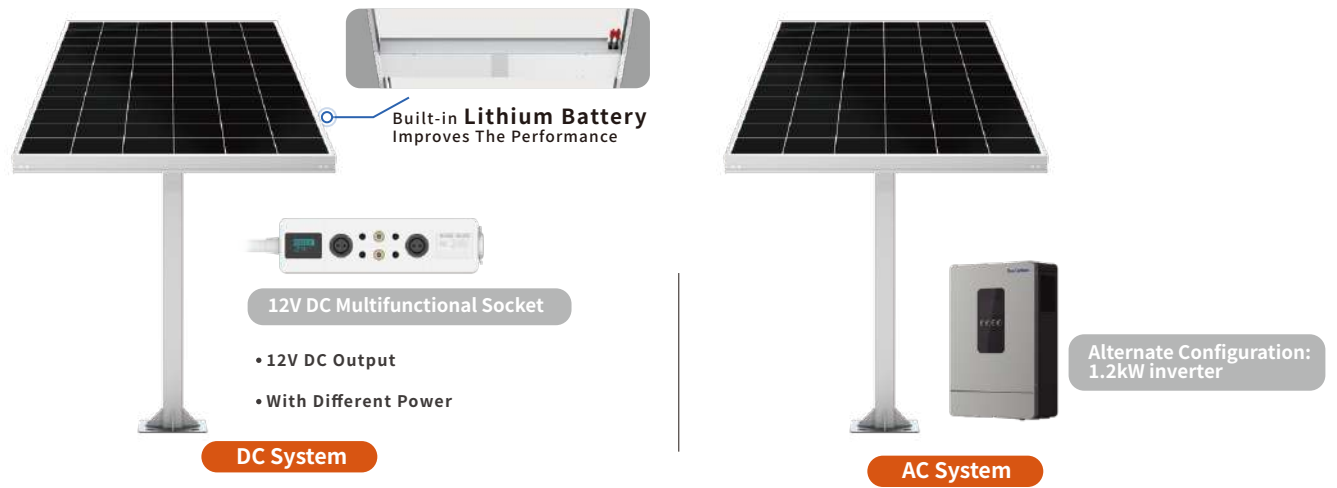
No need for converter | Save cost, directly supply power to DC applications, save inverter expense



Blue Carbon

12V PELLET POWER STATION

Single Group



Product Parameters

DC System

	Battery Compartment 1	Battery Compartment 2
 Pellet Power Station Product Parameters	PV Module Power	585W
	Battery Cell types	Lithium Battery
	Battery Capacity	100Ah
	DC Output Voltage	12.8V
	Maximum DC Power	600W
	Maximum DC Output Current	50A

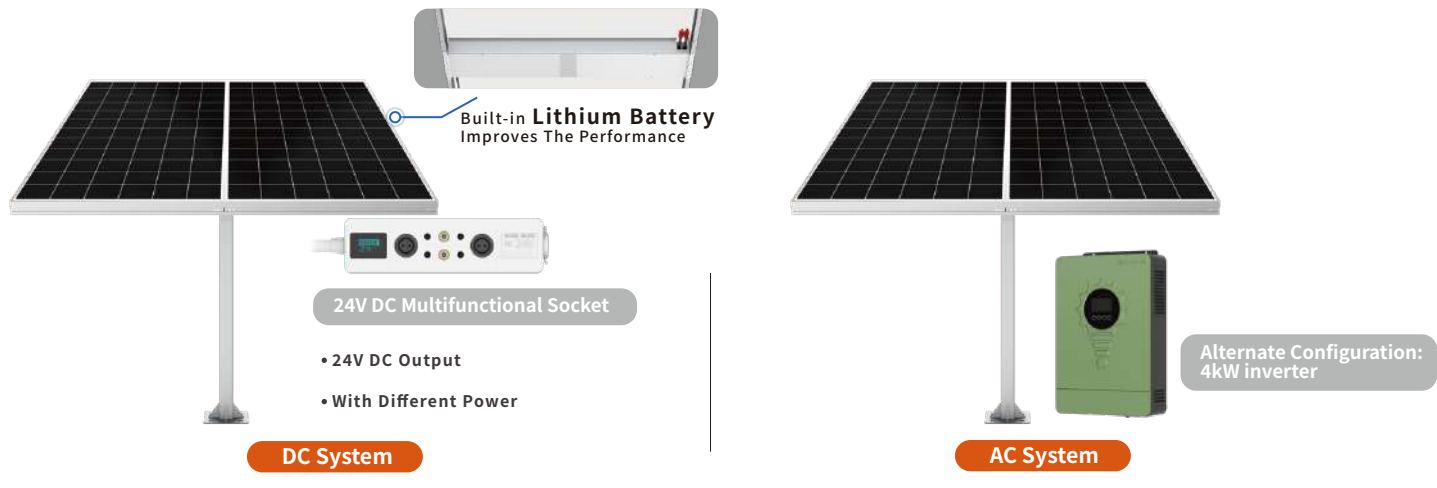
AC System

 Inverter 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%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
	Max. Efficiency (Battery Mode)	90%@12VDC
Parallel Quantity		NA

Blue Carbon

24V PELLET POWER STATION

Two Groups



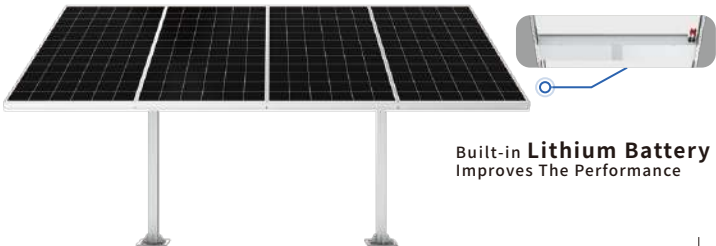
Product Parameters

DC System

	Battery Compartment 1	Battery Compartment 2
 Pellet Power Station Product Parameters	PV Module Power	585W×2
	Battery Cell types	Lithium Battery
	Battery Capacity	100Ah
	DC Output Voltage	25.6V
	Maximum DC Power	1200W
	Maximum DC Output Current	50A

AC System

 Inverter AC output	Rated Capacity (kW)	4
	Surge 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

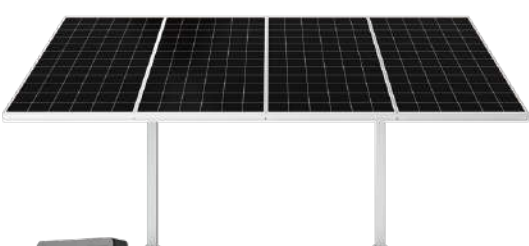


Built-in **Lithium Battery**
Improves The Performance

48V DC Multifunctional Socket

• 48V DC Output • With Different Power

DC System



Alternate Configuration:
6kW inverter

AC System

Product Parameters

DC System

	Battery Compartment 1	Battery Compartment 2
 Pellet Power Station Product Parameters	PV Module Power	585W×4
	Battery Cell types	Lithium Battery
	Battery Capacity	100Ah
	DC Output Voltage	51.2V
	Maximum DC Power	2400W
	Maximum DC Output Current	50A
		585W×4
		Lithium Battery
		200Ah
		51.2V
		4800W
		100A

AC System

 Inverter AC output	Rated Capacity (kW)	6
	Surge 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
	Parallel Quantity	9

Photovoltaic Inverter



Inverter

- 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)



DUAL

Dual
AC Output

BMS

Support lithium/
lead-acid battery



Feed-in
to grid



Lithium battery
activation



Detachable
dust cover



WiFi
monitoring



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



BCT-FXC-6KW
Both Off-grid and On-grid Mode



BCT-FXC-6KW-P

Technical Parameters

MODEL	BCT-FXC-4KW	BCT-FXC-6KW	BCT-FXC-6KW-P 9 Inverters in parallel
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	6	
Peak Power (kVA)	5.7	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)	92.7%@24VDC	93%@48VDC	93%@48VDC
Parallel Quantity	NA	NA	9
CHARGER (PV / AC)			
Solar Charger Type	MPPT	MPPT	MPPT
Max PV Input Current / input Power	18A/5000W	18A/6000W	18A/6000W
MPPT Range@Operating Voltage (VDC)	40~450	120~450	120~450
Max PV Open Circuit Voltage (VDC)	500	500	500
Max PV Charge Current (A)	100	100	80
Max AC Charge Current (A)	100	100	80
Max. Charge Current (PV + AC)(A)	100	100	80
BATTERY			
Rated Voltage (VDC)	24	48	
Floating Charge Voltage (VDC)	27	54	
Overcharge Protection (VDC)	30.5	61	
Battery Type	Lithium and Lead -acid	Lithium and Lead -acid	
INTERFACE			
HMI	LCD	LCD	
Interface	RS485 /RS232 / USB / Dry Contact	RS485 /RS232 / USB / Dry Contact	
Monitoring	WiFi (Optional)	WiFi (Optional)	
GENERAL DATA			
Ingress Protection	IP20	IP20	
Operating Temperature	-10°C~50°C	-10°C~50°C	
Relative Humidity	5%-95% (Non-condensing)	5%-95% (Non-condensing)	
Storage Temperature	-15°C~60°C	-15°C~60°C	
Net Weight (kg)	8	9	
Dimensions (W*H*D)	490*306*115mm(without bracket)	510*306*115mm(without bracket)	
Max.Operating Altitude	4000m (Derating above 1000m)	4000m (Derating above 1000m)	

Hybrid Solar Inverter

- 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)

DUAL

Dual AC Output

BMS

Support lithium/lead-acid battery

Feed-in to grid

Lithium battery activation

Detachable dust cover

WiFi monitoring



BCT-FXC-6KW-H-P

Technical Parameters

MODEL	BCT-FXC-6KW-H-P 9 Inverters in parallel
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
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
Parallel Quantity	9
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)

Portable System



Sun-Power

Solar Home System



Backup power



Camping



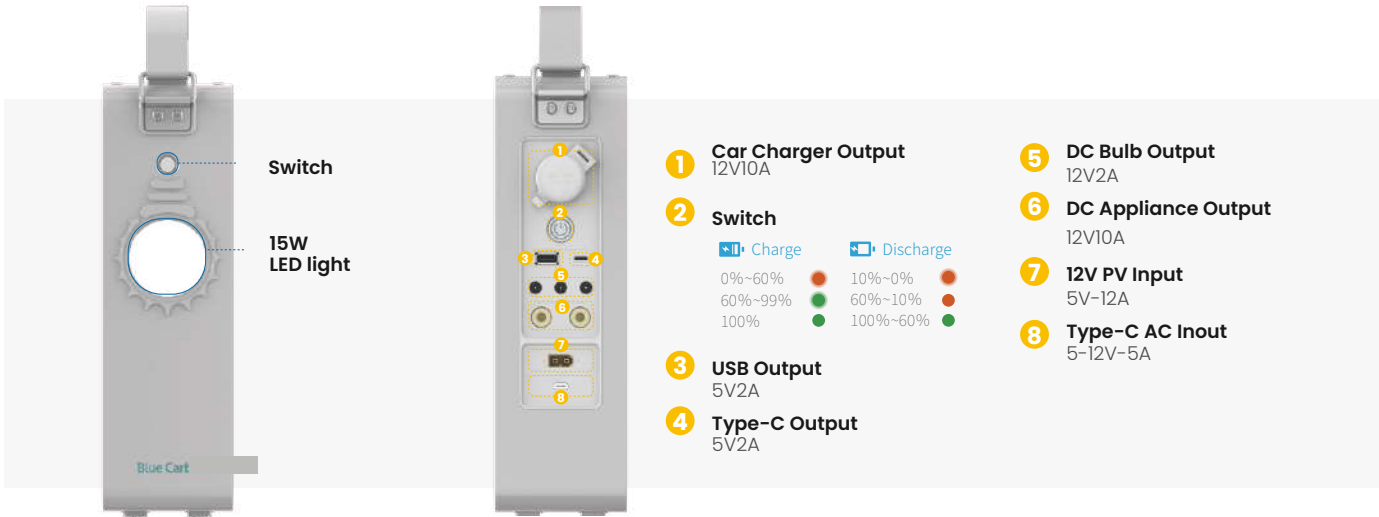
Travel



Model: BCT-SHS1.0

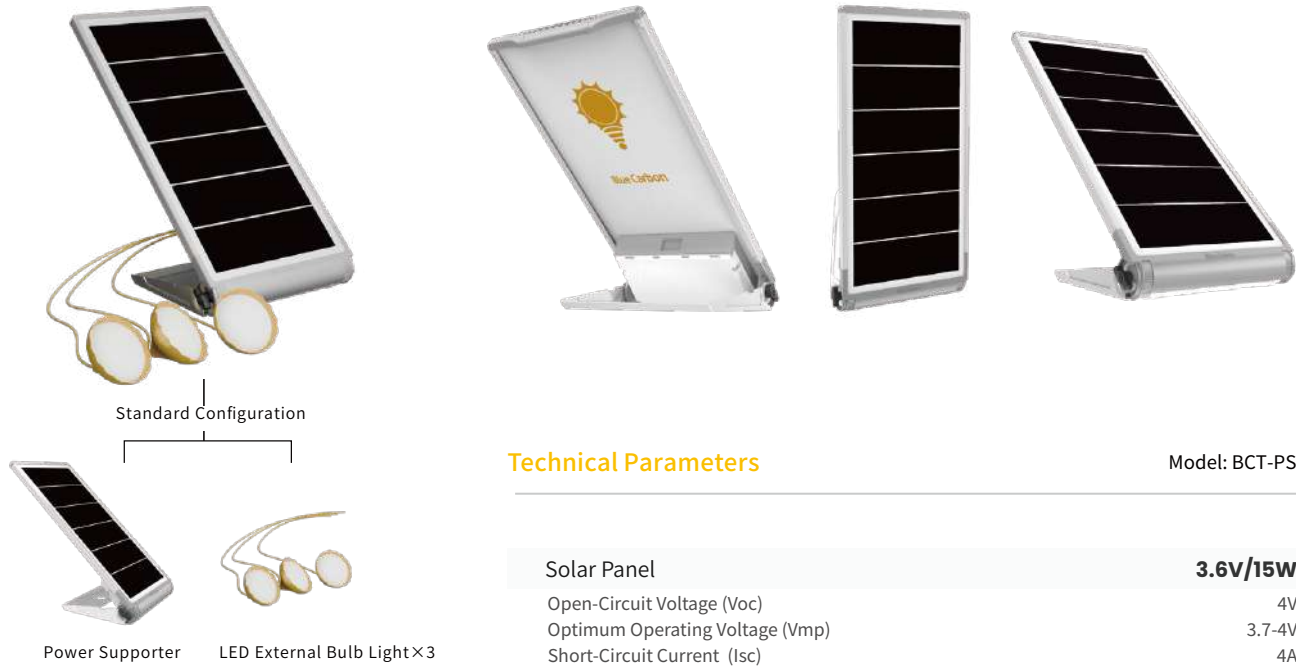
Technical Parameters

Solar Panel		12V60W	Output	
Open-Circuit Voltage (Voc)		16.56V	Car Charger Output	12V10A
Optimum Operating Voltage (Vmp)		14.39V	USB Output	5V2A
Short-Circuit Current (Isc)		4.17A	Type-C Output	5V2A
Optimum Operating Current (Imp)		4.18A	DC Bulb Output	12V2A
Working Efficiency (%)		22%	DC Home Appliance Output	12V10A
LiFePO ₄ Battery			Max Output Power	100W
Nominal Voltage		3.2V	Other	
Electricity (kwh)		0.5kWh	LED Bulb	10W×3Pcs
DOD		80%	Builtin LED	15W
Cycle		>6000 cycles, <0.5C	Product Size	236mm×82mm×276mm



Power Supporter

Portable Micro-energy Storage System



Technical Parameters

Model: BCT-PS1.0

Solar Panel		3.6V/15W
Open-Circuit Voltage (Voc)		4V
Optimum Operating Voltage (Vmp)		3.7-4V
Short-Circuit Current (Isc)		4A
Optimum Operating Current (Imp)		2.2A
LiFePO ₄ Battery		
Nominal Voltage		3.2V
Electricity		48 Wh
DOD		80%
Cycle		>6000 cycles, <0.5C
Output		
USB Output		5V
Type-C Output		5V
DC Bulb Output		3.2V/10W
Light Time	When the product is fully charged and uses the standard LED external bulb light, 3 lights can provide sustainable lighting for 12 hours, 2 lights can provide sustainable lighting for 24 hours and 1 light can provide sustainable lighting for 36 hours	
Product Size		
Product Size		435×228×46mm



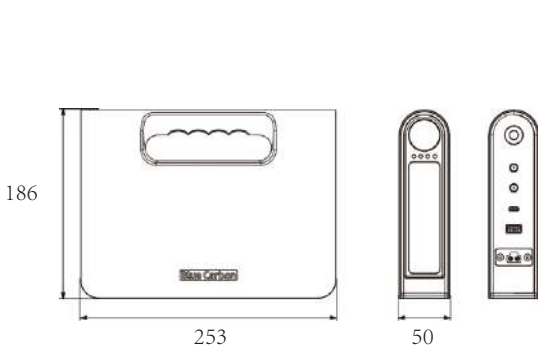
Carbon Free

Solar Home System



Technical Parameters Model: BCT-CF1.0

Battery Electric	LiFePO4 Battery 80W•h
Solar Panel	5V/15W
Lighting Time	One external lamp works 13 hrs; Two external lamps work 6 hrs; For the built-in lamp, high beam works 8 hrs, flood light works 8 hrs and SOS light works 26 hrs.
External Lamp	Common 6W LED×2pcs
Built-in lamp	High Beam (Common 9W LED) Flood Light (Common 9W LED) SOS Light (Common 3W LED)
USB Output	One circuit output 5V/2A
Type-C Output	One circuit output 5V/2A
DC Output	Two circuits DC output 3.2V



unit: mm



1kWh

Solar-storage-application Integrated System

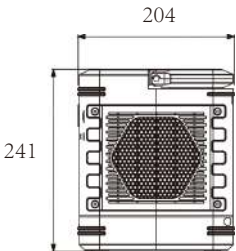
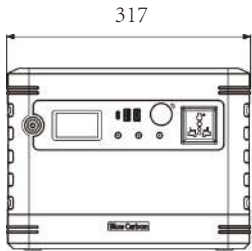
Technical Parameters Model: BCT-SPS 12-80

Nominal Capacity	80Ah
Nominal Voltage	12V(12.8V)
Electricity(kWh)	1024Wh
USB Output	Two output 5V/2A, 9V/2A
DC Output	Three output 12V/2A
Car Charger Output	12V/10A
Type-C Output	5V/2A, 9V/2A, 12V/2A
Charging Voltage	14.6V-20V
Cut-Off	2.5V single cell
AC Output Power	220V/1.1KW
AC Output Frequency	50Hz; Pure sine wave
Depth of Discharge	>80%
Self-Discharge (25°C)	<3%/month
Working Temperature Range	-15°C—60°C
Recommended Temperature Range	10°C—40°C

1kWh solar system can be charged by solar, to store the electricity, with inverter built-in, can directly supply the power to the electric appliances when power outage. It is one comprehensive storage system integrating generation, storage and usage. Unlike generators, a 1kWh solar system needs no maintenance, no fuel consumption, and no noise, making your home lights always on, and home appliances always run. With easy installation, a simple design, and a perfect fit for a variety of architectural styles, it is suitable for homes, businesses, industries, aquaculture, planting, field work,camping tourism, night markets, etc.



- 1 Handle
- 2 Master Switch
- 3 Display
- 4 Type-C Output
- 5 USB Output
- 6 DC Output
- 7 Car Charger Output
- 8 AC Output
- 9 DC Input



Installation cases



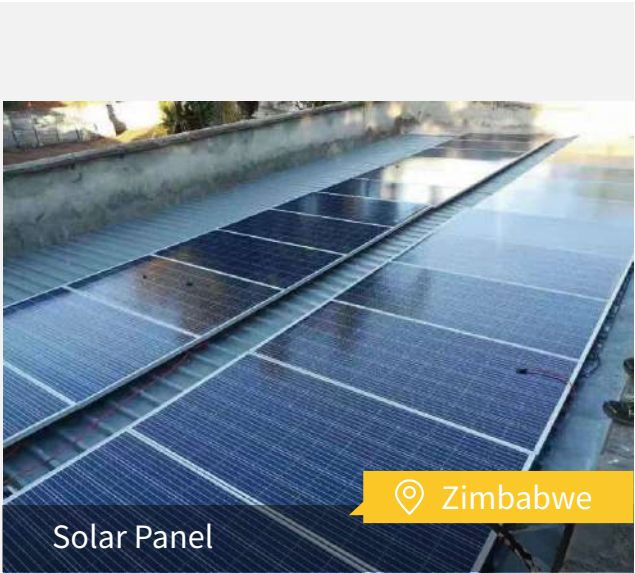
Nigeria

UU 48-200 LiFePO₄ Battery
Solar Panel
Inverter



Solar Panel

Nigeria



Solar Panel

Zimbabwe



Turkey

UU 12-200 LiFePO₄ Battery



Puerto Rico

UU 12-200 LiFePO₄ Battery



Malaysia



Lebanon

48-200/250/300 LiFePO₄ Battery

48-200 LiFePO₄ Battery
Solar Panel
Inverter



48-200/250/300 LiFePO₄ Battery

📍 Philippines



📍 Philippines

📍 Nigeria



📍 Iraq



UU 48-350 LiFePO₄ Battery
Solar Panel
Inverter



📍 Malaysia



📍 Nigeria

48-200 LiFePO₄ Battery
Solar Panel
Inverter



📍 Brazil

24-100 LiFePO₄ Battery



48-200 LiFePO₄ Battery
Solar Panel
Inverter





BCT-T-48-100
51.2V/100ah

Solar BOX



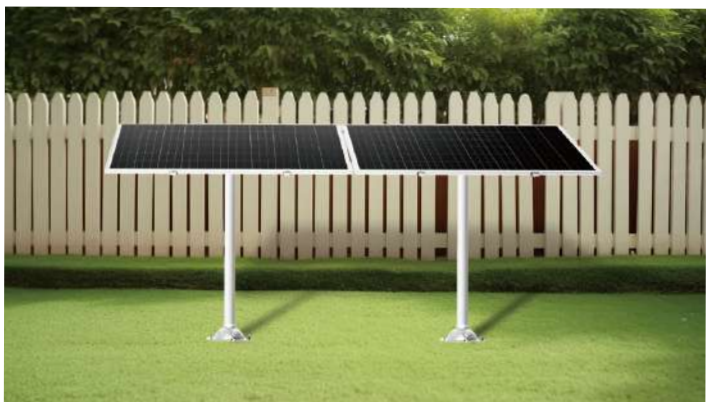
▶ 阳台安装



Off-grid inverter
BCT-FXC-6KW



▶ 立式安装



Carbon Free
Solar Home System





Carbon Free
Solar Home System



Sun-power
BCT-SHS1.0



Power Supporter
BCT-PS1.0



1kWh
AIO for generation, storage and application

