



 <https://www.stsolar.co.uk>

Sophia House, 28 Cathedral Road, Cardiff, CF11 9LJ



**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

**23**
Industrialization
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.

ST Solar 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 with a 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.

CONTENTS

380V SYSTEM SOLUTION

380v Charging, Storage and Inversion Integration Standard Solution

----- 01-10 -----



220V SYSTEM SOLUTION

220v Charging, Storage and Inversion Integration Standard Solution

220v Inverter Box Solution

----- 11-26 -----



PELLET POWER STATION

12v Pellet Power Station

24v Pellet Power Station

48vpellet Power Station

----- 27-30 -----



LITHIUM BATTERY PACK

Vertical Lithium Battery Pack

Table Lithium Battery Pack

----- 31-44 -----



PHOTOVOLTAIC INVERTER

Off-grid Inverter

Solar Inverter

Hybrid Inverter

----- 45-48 -----



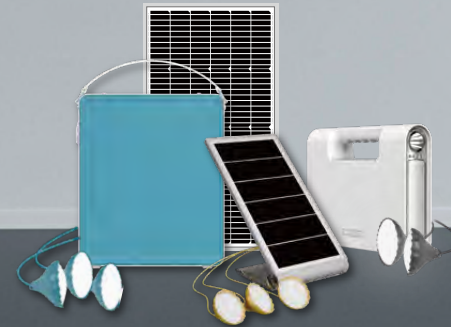
PORTABLE SYSTEM

Solar Home System

Portable Micro-energy Storage System

Aio For Generation, Storage and Application

----- 49-54 -----

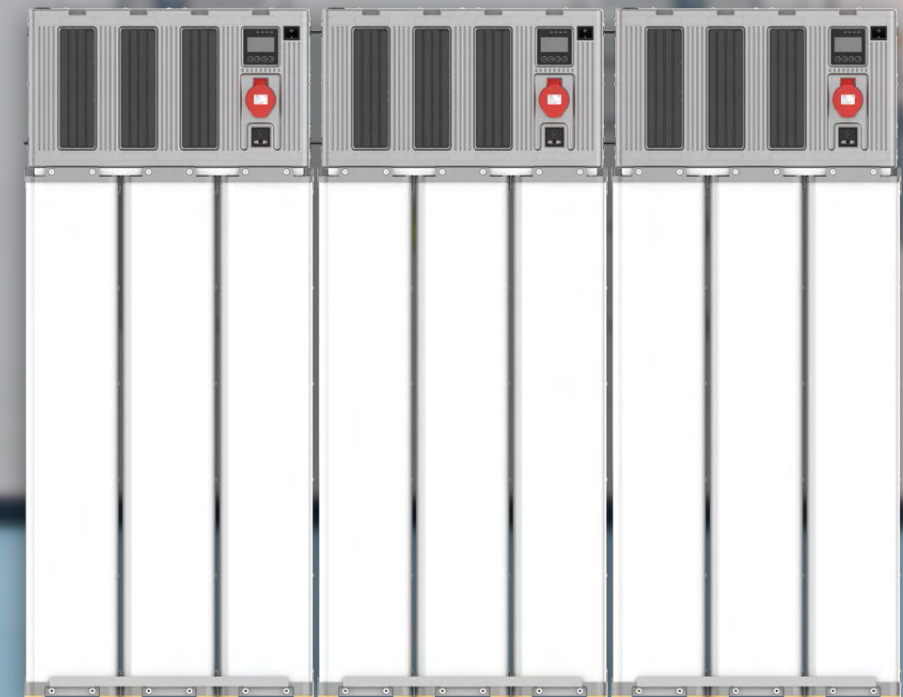


380V System Solution

- 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

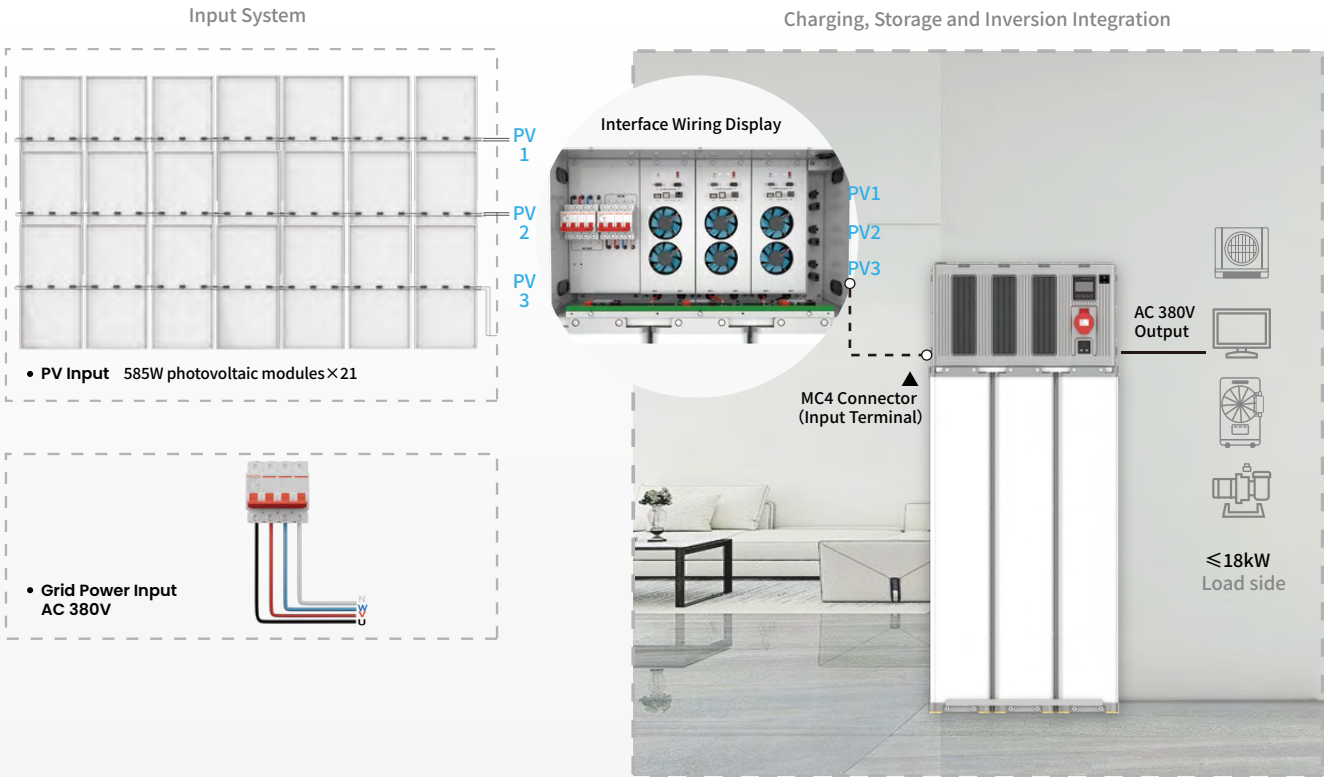
Introduction to Standard Solutions

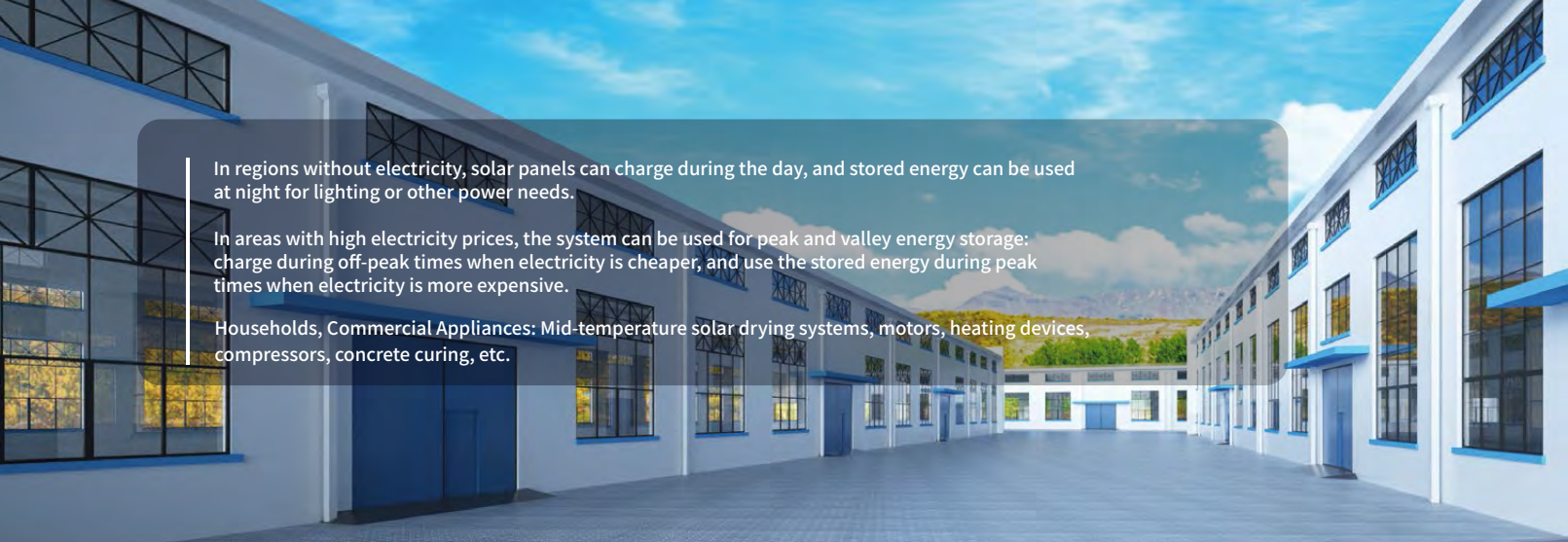


Technical Parameters

Battery Parameter		Photovoltaic/AC Input	
Nominal capacity	900Ah	Rated input voltage (VAC)	360/380/400/420;U+V+W+N+PE
Nominal voltage	51.2V	Phase voltage range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Electricity(kWh)	45kWh	Frequency (Hz)	50/60(auto adaptive)
Inverter AC Output		Solar charger type	MPPT
Max power (kw)	18kW	Max PV input current / input power	18A/6000W ×3
Voltage (VAC)	360/380/400/420	MPPT 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)	240
Switch time (ms)	10(normal mode)/ 10(UPS mode)	Max AC charge current (A)	240
Wave form	Pure sine wave	Max. charge current (PV + AC)(A)	240
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(54kW)		

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

Nominal capacity	1800Ah
Nominal voltage	51.2V
Electricity(kWh)	90kWh

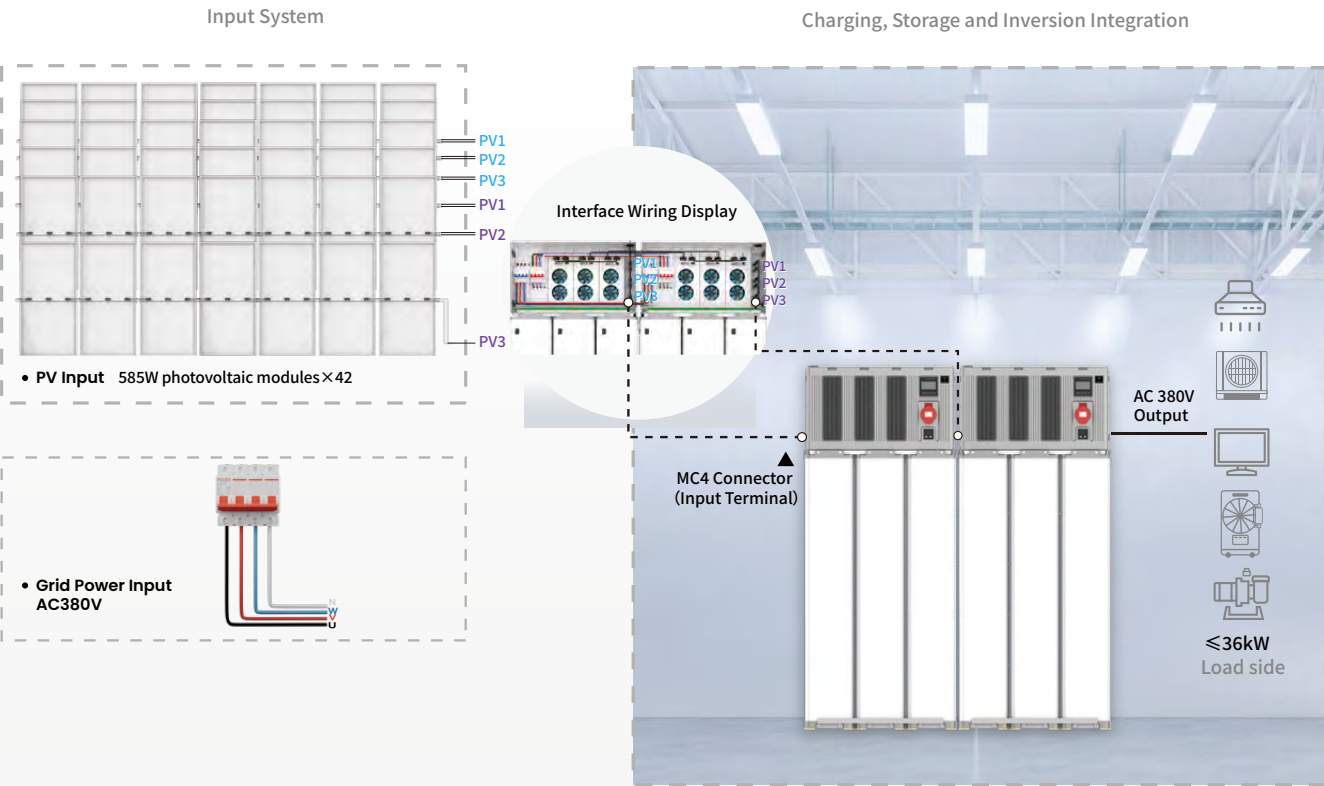
Inverter AC Output

Max power (kw)	36kW
Voltage (VAC)	360/380/400/420
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

Photovoltaic/AC Input

Rated input voltage (VAC)	360/380/400/420;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 ×6
MPPT range@operating voltage per unit (VDC)	120~450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current (A)	480
Max AC charge current (A)	480
Max. charge current (PV + AC)(A)	480

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.

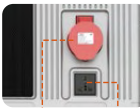
Water treatment equipment, high-flow and high-lift submersible pumps, field irrigation, sewage treatment, electric boilers, and air-source heat pump systems.

380V/54kW 135kWh

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



LCD Smart Display



380V Output 220V Output

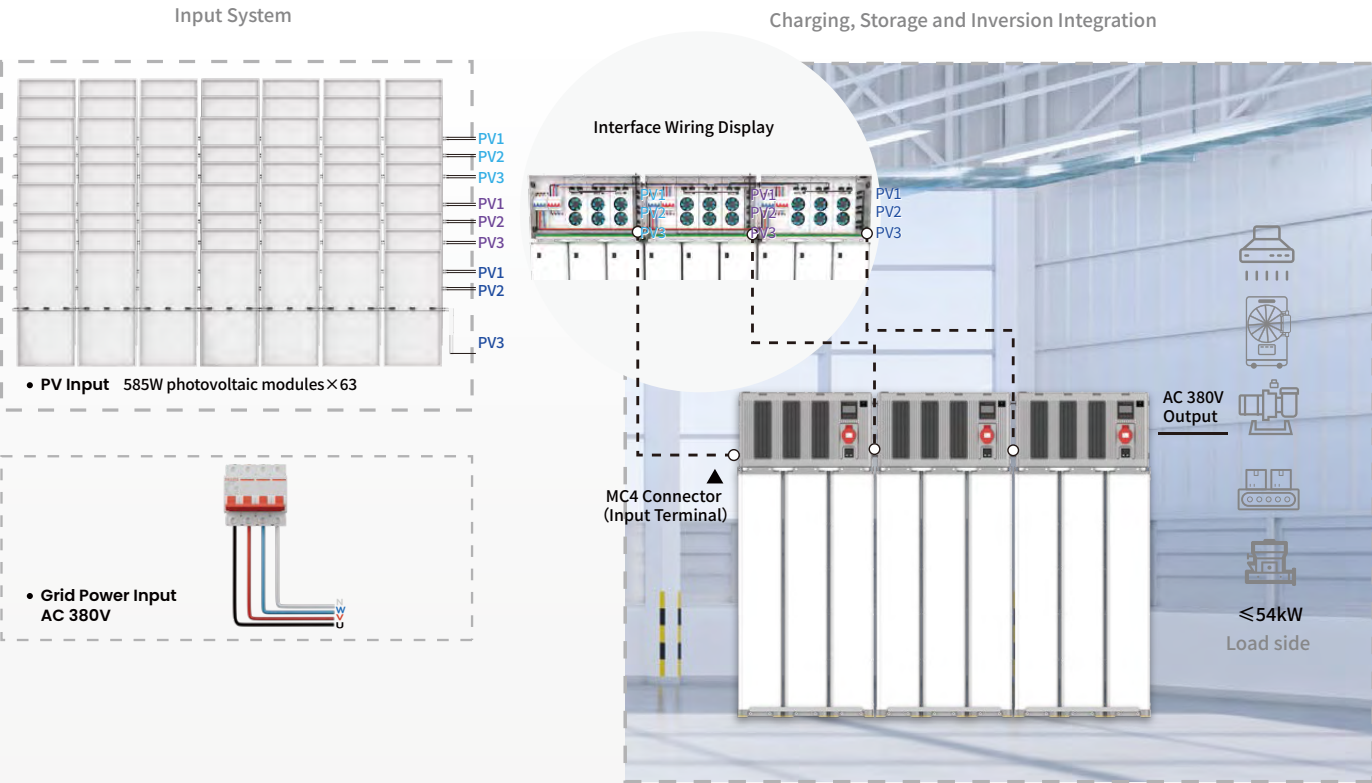
Compatible with sockets of different voltage specifications
Cannot be used at the same time



Technical Parameters

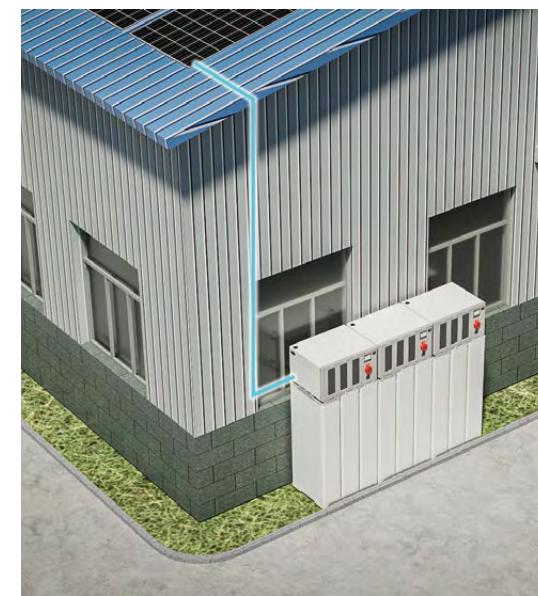
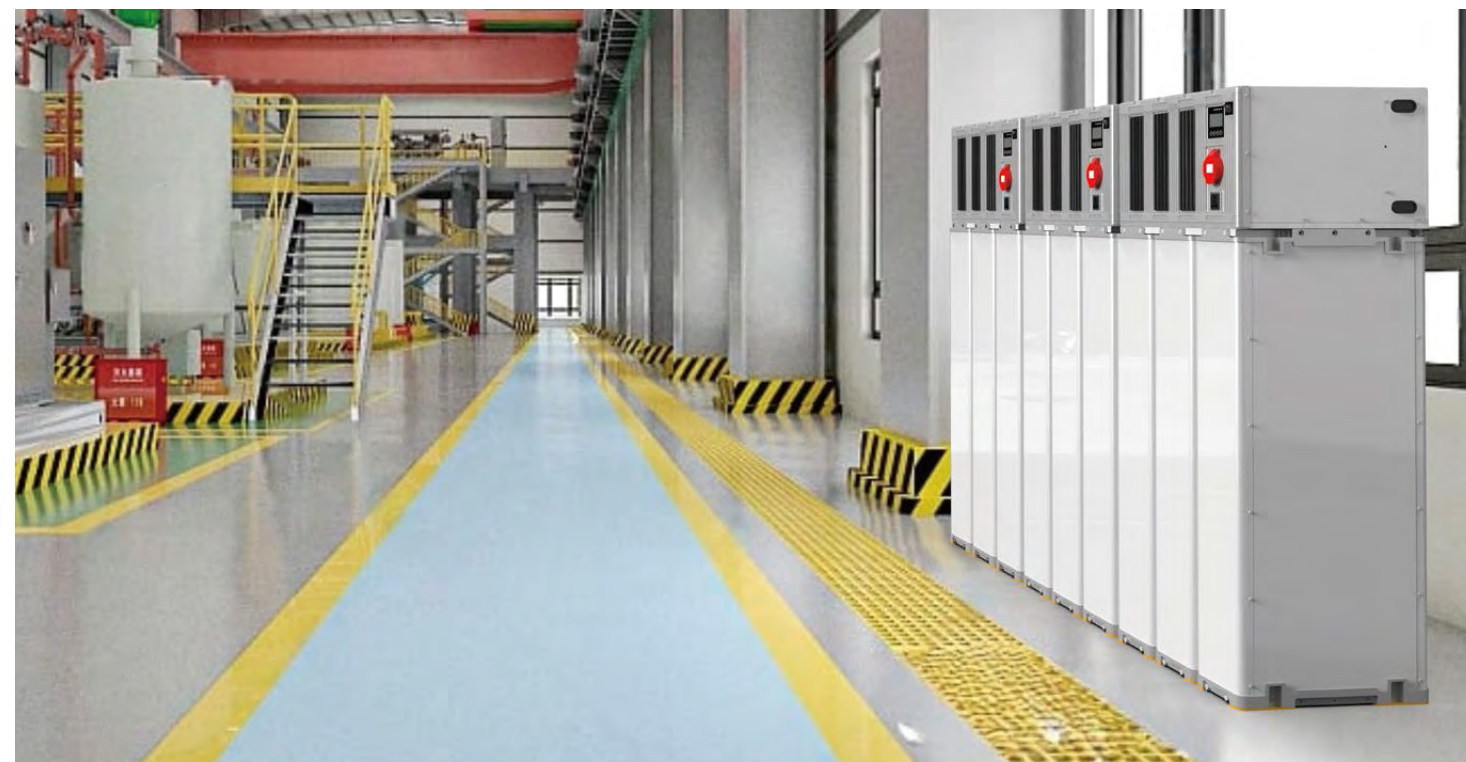
Battery Parameter		Photovoltaic/AC Input	
Nominal capacity	2700Ah	Rated input voltage (VAC)	360/380/400/420;U+V+W+N+PE
Nominal voltage	51.2V	Phase voltage range (VAC)	90~280±3(normal mode);170~280±3(UPS mode)
Electricity(kWh)	135kWh	Frequency (Hz)	50/60(auto adaptive)
Inverter AC Output		Solar charger type	MPPT
Max power (kw)	54kW	Max PV input current / input power	18A/6000W ×9
Voltage (VAC)	360/380/400/420	MPPT 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





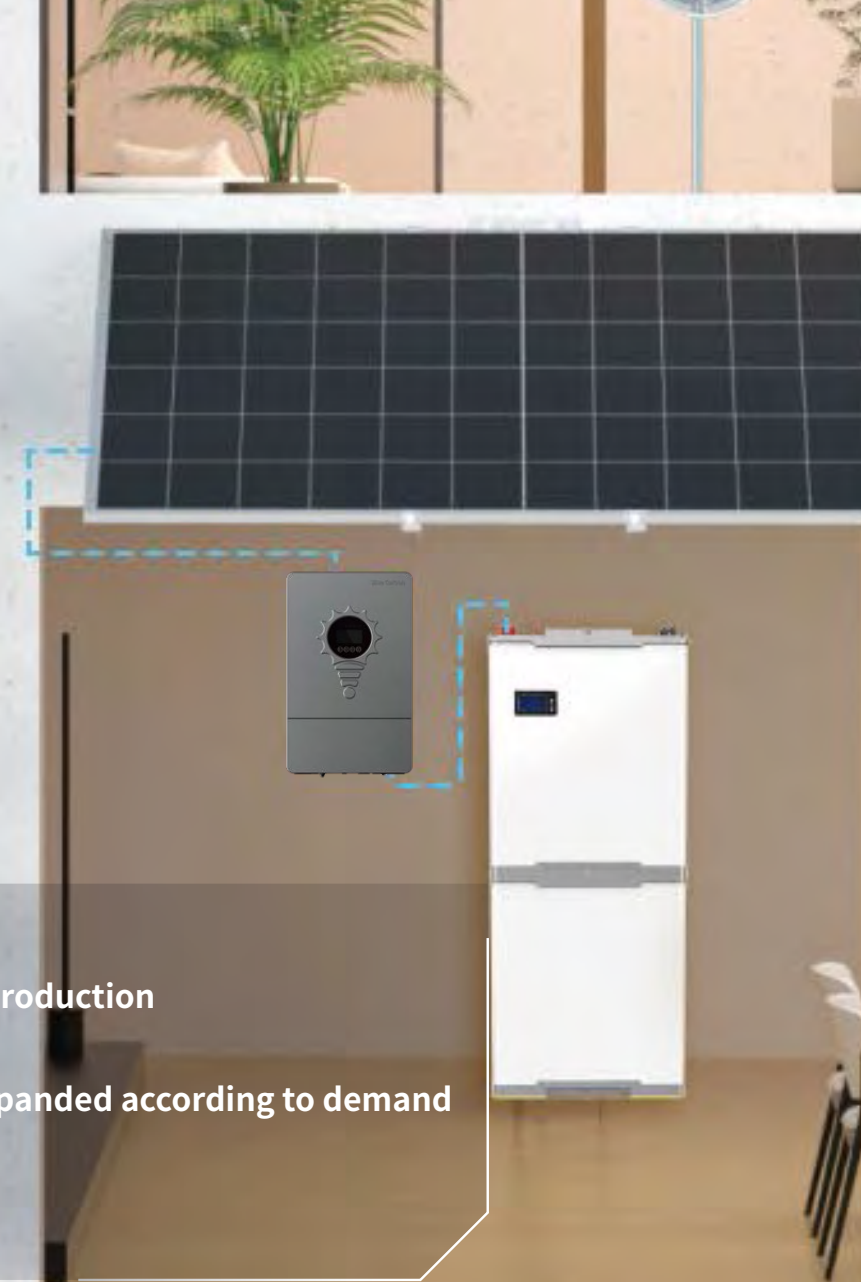
Suitable for equipments and systems covering a wide range of applications including industrial equipment operation, commercial office spaces, water conservancy facilities, hotels and homestays, commercial appliance running, mining machinery, farmland irrigation, sewage treatment, concrete curing, and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



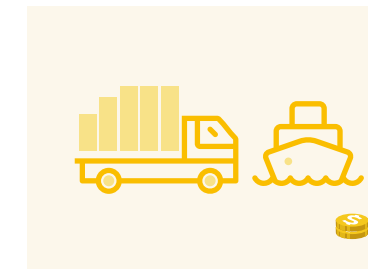
Charging, Storage and Inversion Integration System Advantages



Blue Carbon

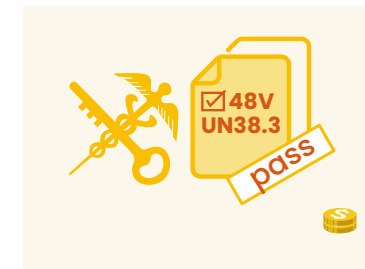
Integrated packaging for shipment

- 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

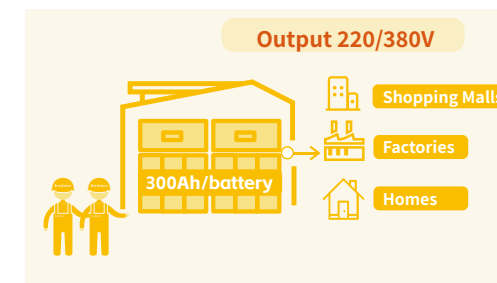
- The high costs of transportation, safety certification, and construction caused by high-voltage systems have been visibly reduced

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

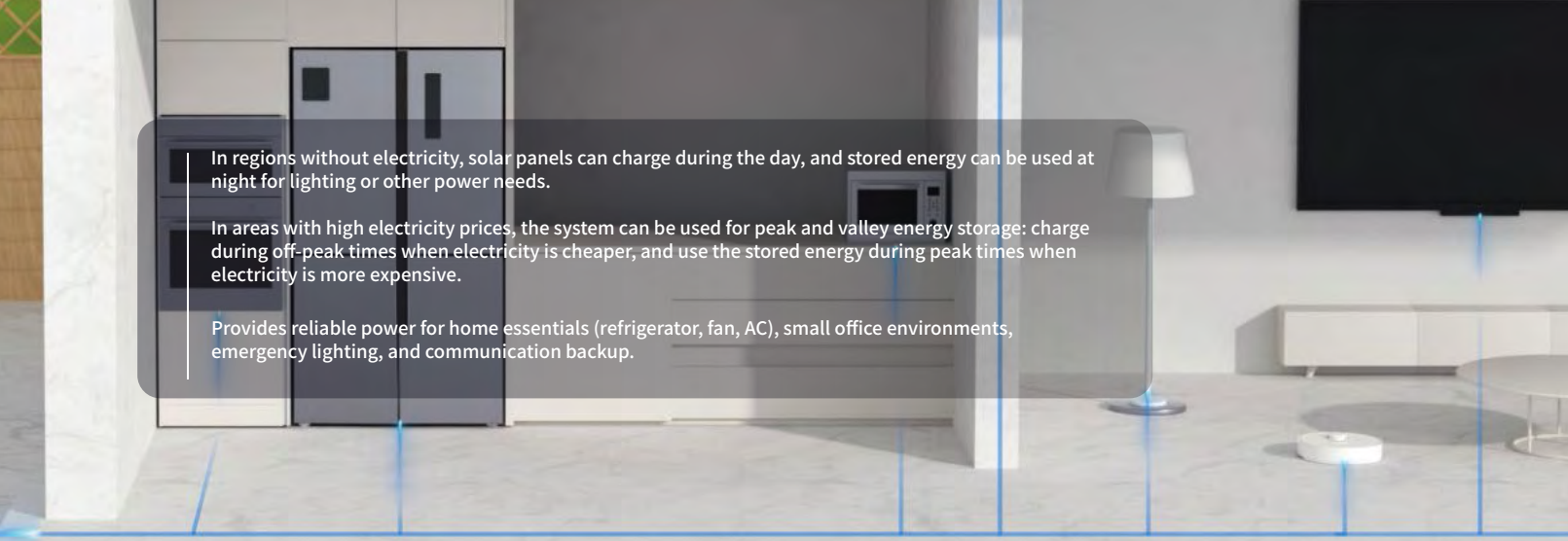
Users



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.

Provides reliable power for home essentials (refrigerator, fan, AC), small office environments, emergency lighting, and communication backup.

220V/6kW 15kWh

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



Technical Parameters

Battery Parameter

Nominal capacity	300Ah
Nominal voltage	51.2V
Electricity(kWh)	15kWh

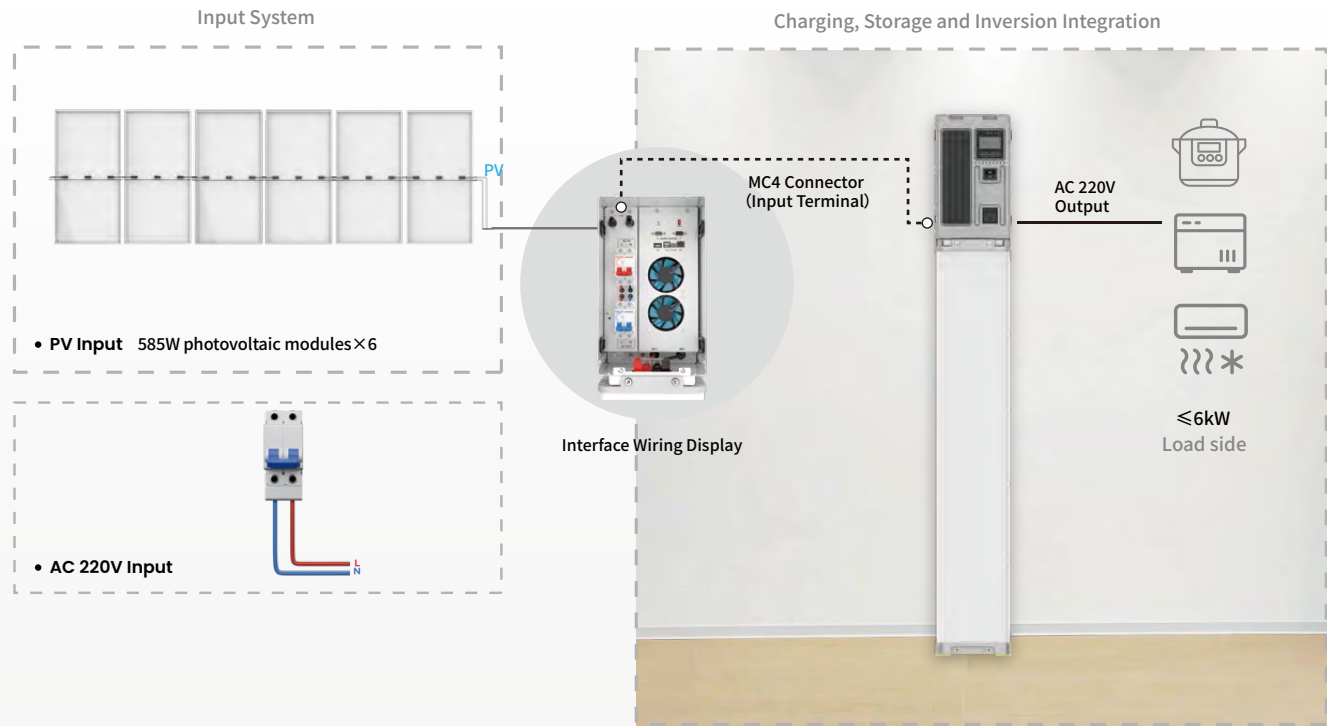
Inverter AC Output

Max power (kw)	6kW
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	9 groups(54kW)

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
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

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	51.2V
Electricity(kWh)	30kWh

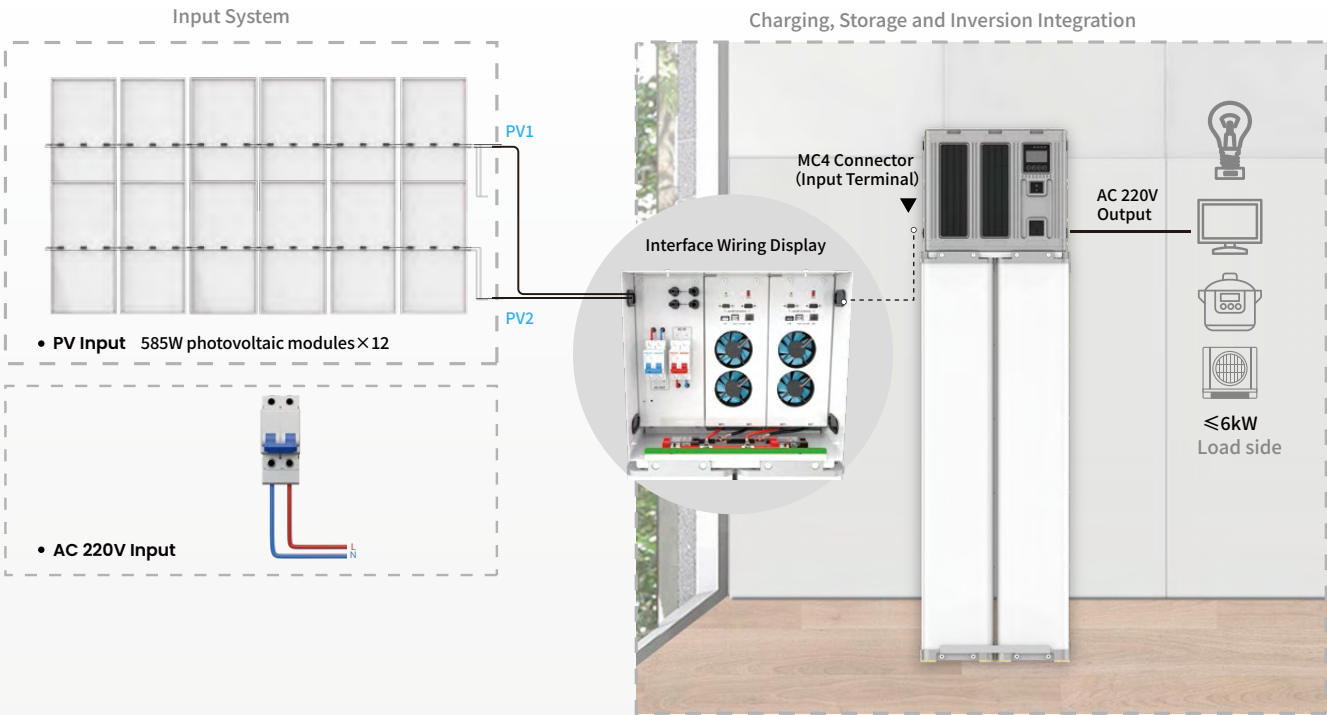
Inverter AC Output

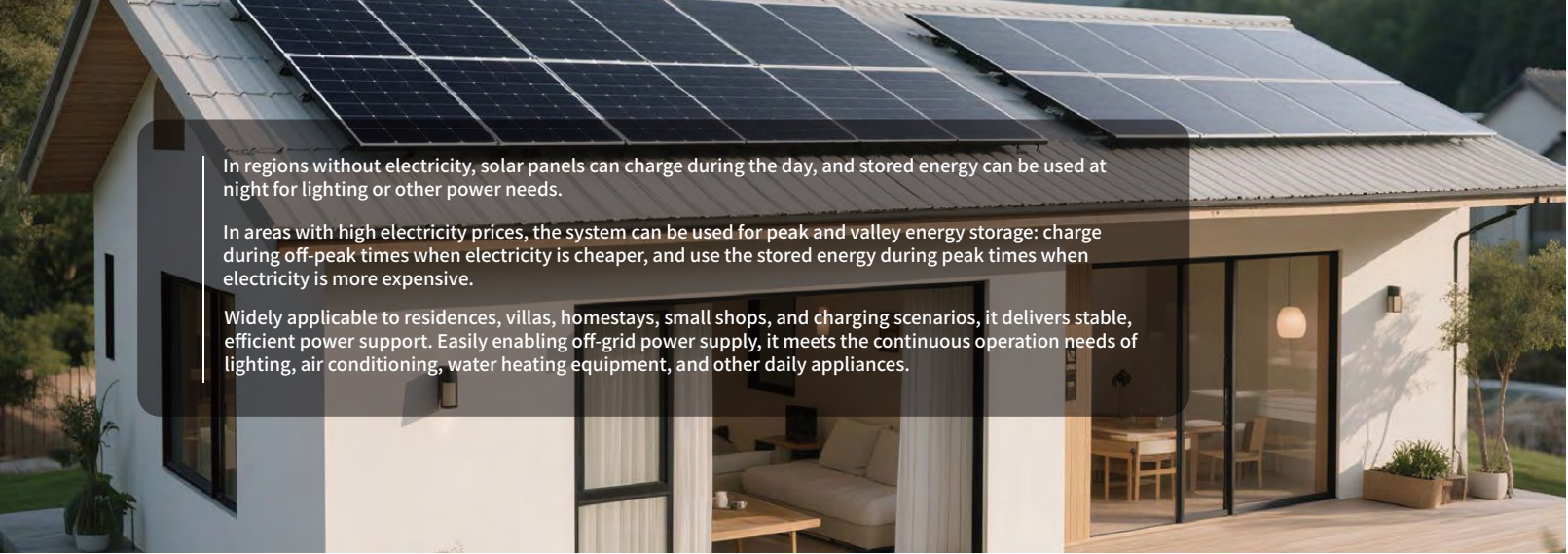
Max power (kw)	12kW
Voltage (VAC)	208/220/230/240
Power factor (PF)	1
Frequency	50/60Hz±0.1%
Switch time (ms)	10(normal mode)/ 10(UPS mode)
Wave form	Pure sine wave
Overload capacity (battery mode)	60s@102%~110% load;10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (battery mode)	93%@48VDC
Max.Parallel Quantity	4 groups(48kW)

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
MPPT 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





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.

Widely applicable to residences, villas, homestays, small shops, and charging scenarios, it delivers stable, efficient power support. Easily enabling off-grid power supply, it meets the continuous operation needs of lighting, air conditioning, water heating equipment, and other daily appliances.

220V/18kW 45kWh

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



Technical Parameters

Battery Parameter

Nominal capacity	900Ah
Nominal voltage	51.2V
Electricity(kWh)	45kWh

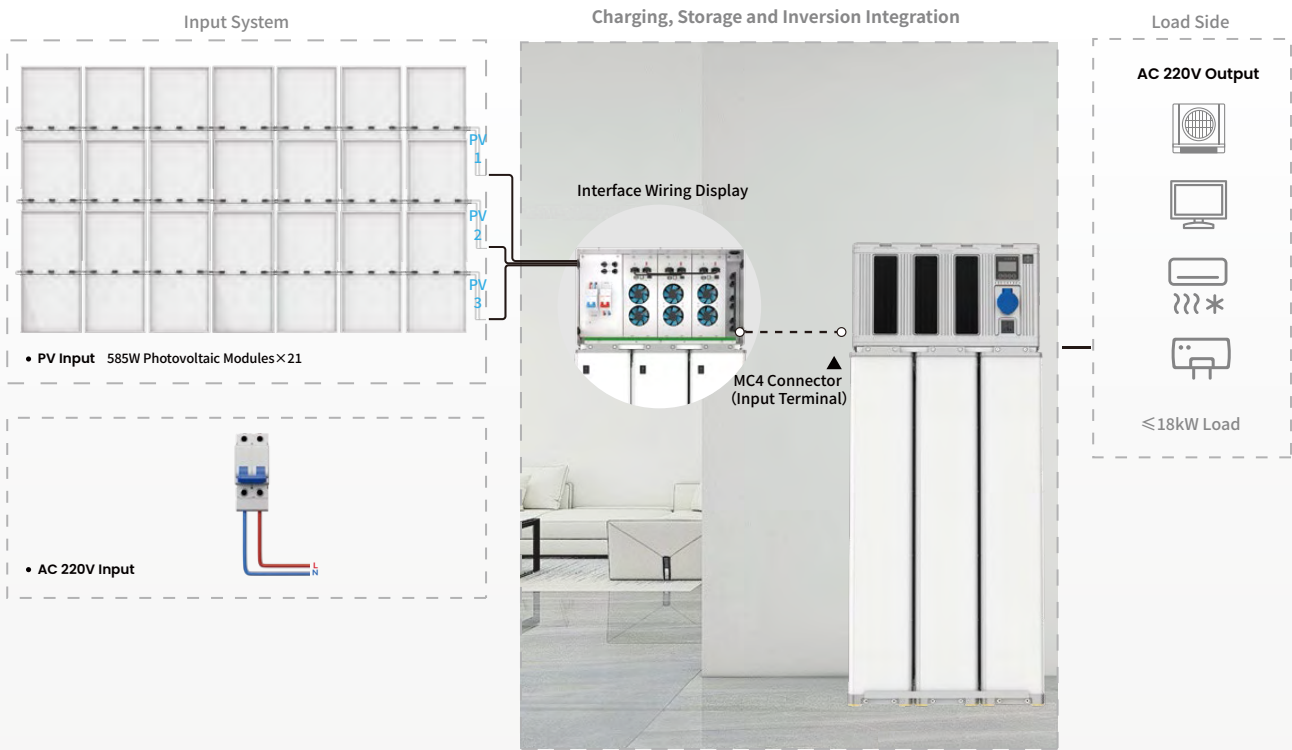
Inverter AC Output

Max power (kw)	18kW
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	3 groups(54kW)

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×3
MPPT 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





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

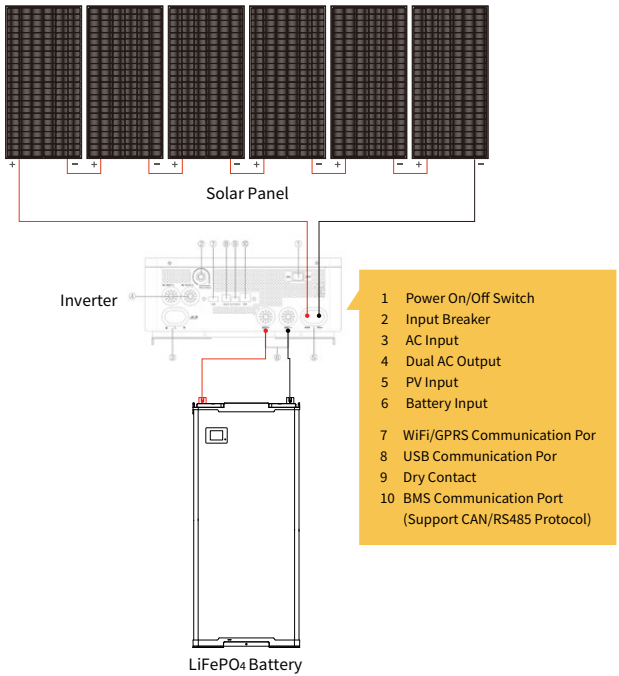
Open-Circuit Voltage (Voc) [V]	49.68V
Optimum Operating Voltage (Vmp) [V]	44.14V
Short-Circuit Current (Isc) [A]	13.50A
Optimum Operating Current (Imp) [A]	12.46A
Wafer Efficiency[%]	23.3%

LiFePO4 Battery

Nominal Voltage	51.2V
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

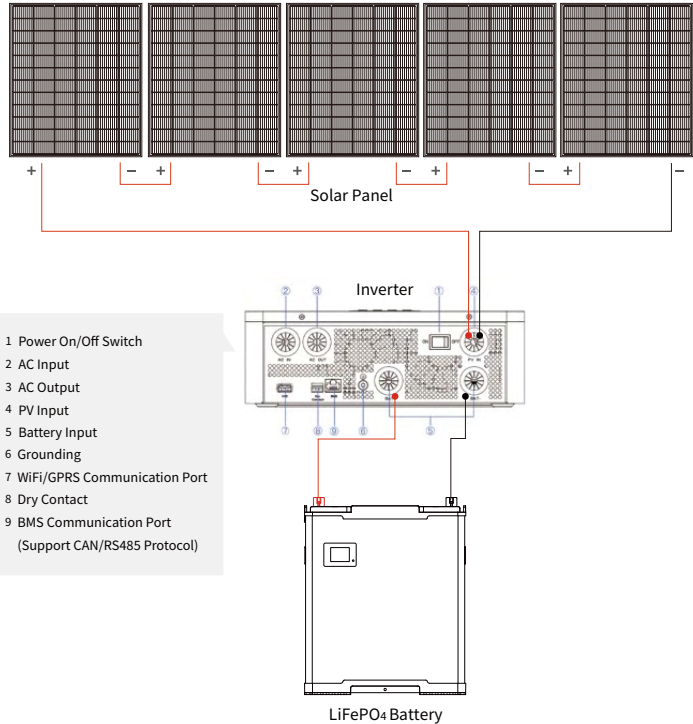
Open-Circuit Voltage (Voc) [V]	49.18V
Optimum Operating Voltage (Vmp) [V]	43.49V
Short-Circuit Current (Isc) [A]	7.61A
Optimum Operating Current (Imp) [A]	6.90A
Component Efficiency[%]	22.1%

LiFePO4 Battery

Nominal Voltage	25.6V
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



U-Powers

Your Own Portable Energy Source.



25.6V /8kWh

Model: BCT-UPS-4KW

Technical Parameters

Battery Specifications

Basic Specifications	
Nominal Capacity	314Ah
Nominal Voltage	25.6V
Electricity(kWh)	8kWh
Input	
Full Charge Voltage	29.2V
Continuously Use Input Current	<100A
Overcharge Delay Protection	1000ms
Output	
Continuously Use Output Current	<100A
Discharge Cut-off Voltage	17.6V
Over-Discharge Delay Protection	5000ms
Short Circuit Protection Delay	256us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current Time	500ms
Battery	
Cell Type	LiFePO ₄ (LFP)
Storage Temperature Range	-20°C-35°C
Operating Temperature Range	Charging: 0-45°C, Discharging: -10-50°C
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.5C
Cycle Life	> 6000 times(< 0.5C)

Solar Panel

585W 4PCS

Built-in Inverter Specifications

AC Input	
Rated Input Voltage (VAC)	220VAC
Voltage Range (VAC)	90-280VAC
Frequency (Hz)	40-70Hz
AC Output	
Max.Power (kW)	3kW
Peak Power (kVA)	4kV A
Voltage (VAC)	208/220/230/240VAC
Power Factor (PF)	1
Frequency	50/60Hz
Switch Time (ms)	10ms
Wave Form	Pure sine wave
Max. Efficiency (Battery Mode)	>90%@3kW
Charger (PV / AC)	
Solar Charger Type	MPPT
Max.PV Input Current / input Power	18A/4kW
MPPT Range@Operating Voltage (VDC)	40-450VDC
Max.PV Open Circuit Voltage (VDC)	500VDC
Max.PV Charge Current (A)	100A
Max.AC Charge Current (A)	100A
Max.Charge Current (PV + AC)(A)	100A
Interface	
Charger (PV / AC)	WIFI/GPRS Communication Port/ BMS Communication Port(RS485/CAN)

DC+AC Dual Output-Meeting Diverse Market Needs

Photovoltaic Input

Grid Power Input

AC Output

DC Output

Load

Top cover openable:
Internal terminals for cable connection

Grid Connection
220V AC Input
220V AC Output

Data Interface
BMS communication port
USB communication port

Wi-Fi Connectivity

Inverter Control Switch

PV Input

Single-port max output:
16A, 3.5kW

Max total output for
simultaneous use:
18A, 4kW

Battery Control Switch

Binding Post

Integrated Design

Built-in inverter eliminates the need for external devices, saving more space.

Food stall

Welding

25/26

Pellet Power Station

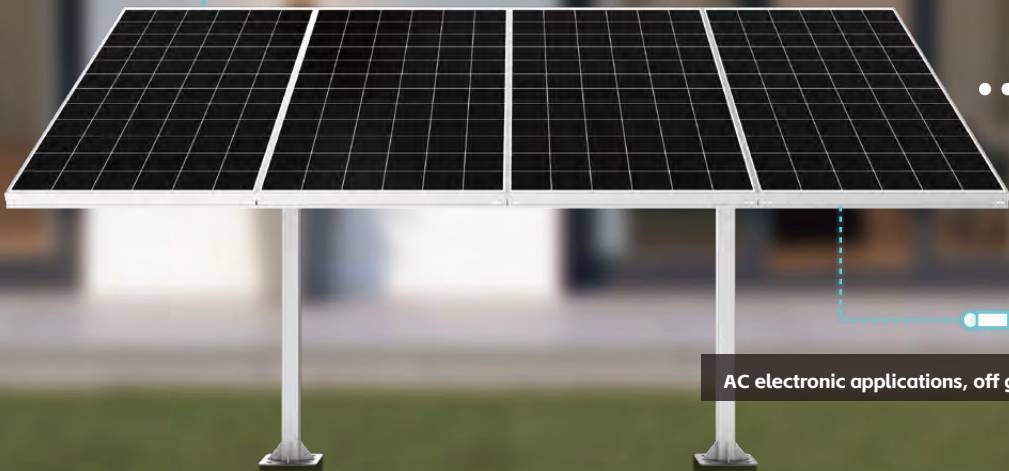
Photovoltaic-Storage Integration

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



... X 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



DC System



AC System

Product Parameters

DC System

Pellet Power Station Product Parameters	Battery Compartment 1		Battery Compartment 2	
	PV Module Power	585W	PV Module Power	585W
	Battery Cell types	Lithium Battery	Battery Cell types	Lithium Battery
	Battery Capacity	100Ah	Battery Capacity	200Ah
	DC Output Voltage	12.8V	DC Output Voltage	12.8V
	Maximum DC Power	600W	Maximum DC Power	1200W
	Maximum DC Output Current	50A	Maximum DC Output Current	100A

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

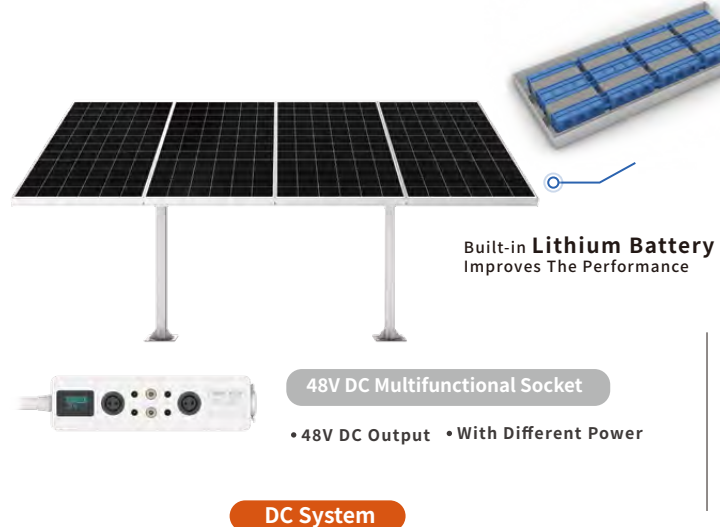
AC System

 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

Blue Carbon

48V PELLET POWER STATION

Four Groups



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

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

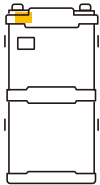


Lithium Battery Pack



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

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

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	100A
Maximum Solar Panel Input Current	100A
Overcharge Delay Protection	1000ms

Output

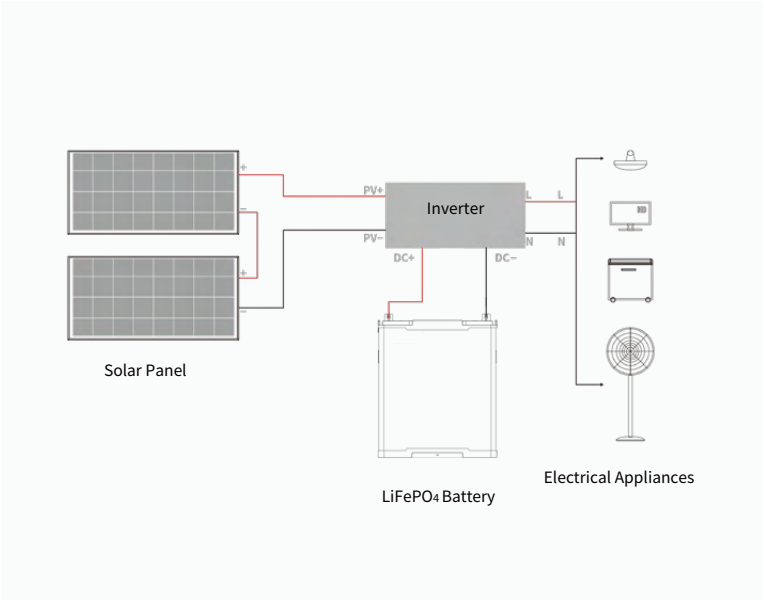
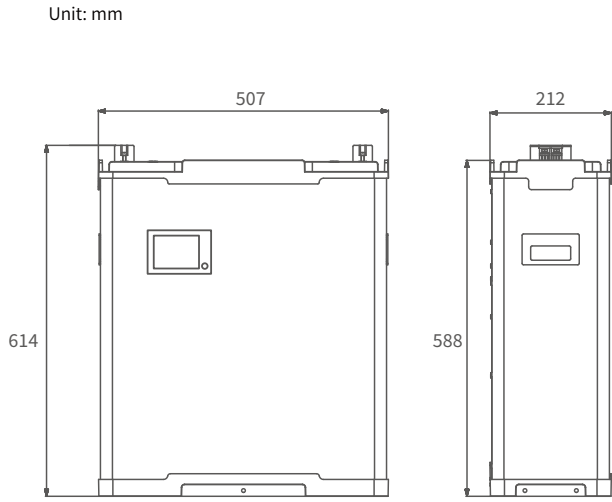
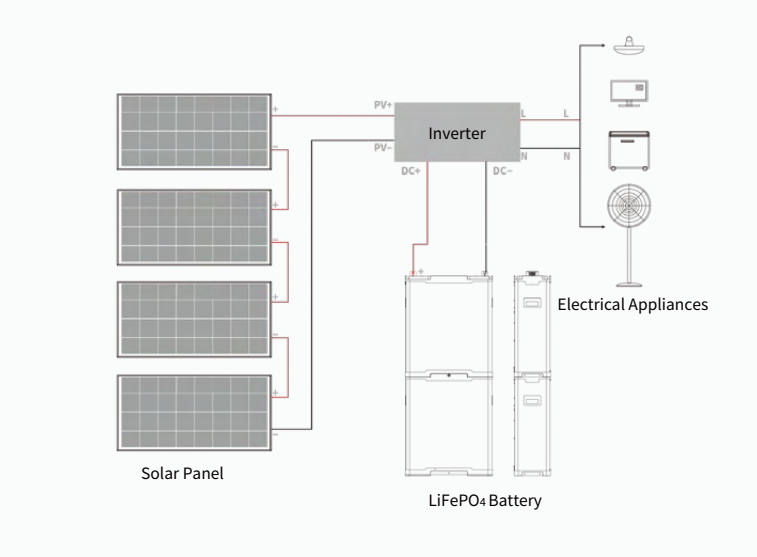
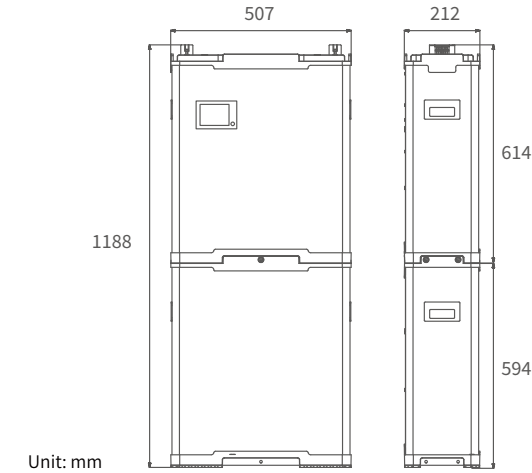
Continuously Use Output Current	120A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load

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)

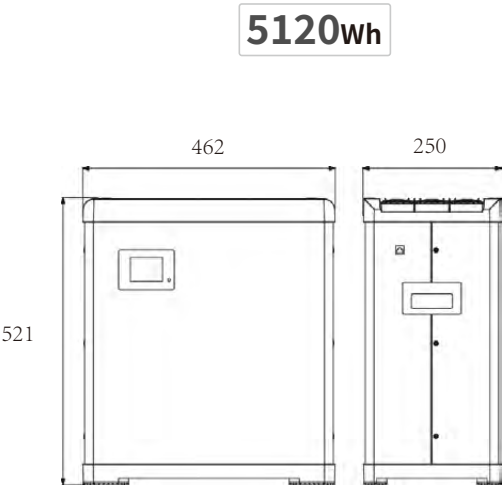
Other

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



Blue Carbon

BCT-V-48-100



Unit: mm

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

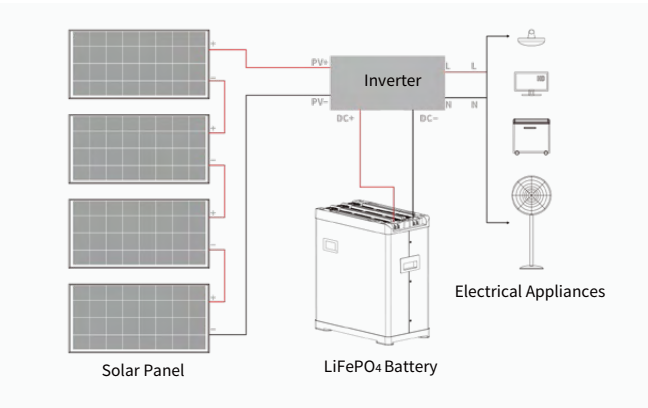
Continuously Use Output Current	80A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	85A
Instant Start Current Time	10S

Other

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

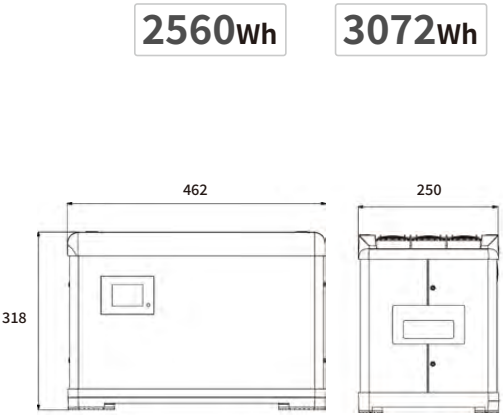
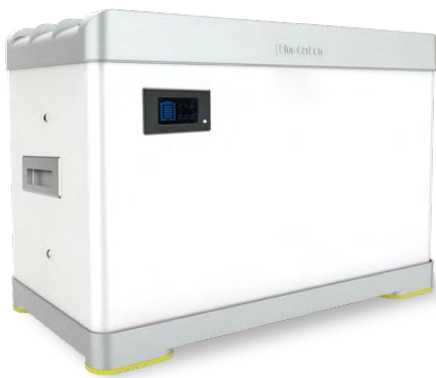
Battery

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



Unit: mm

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

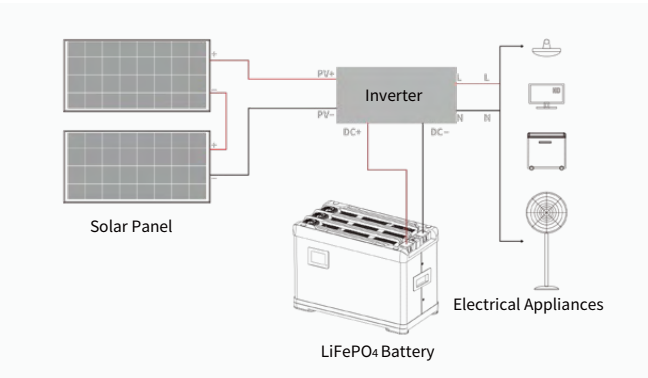
Continuously Use Output Current	80A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	80A
Instant Start Current Time	10s

Other

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

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

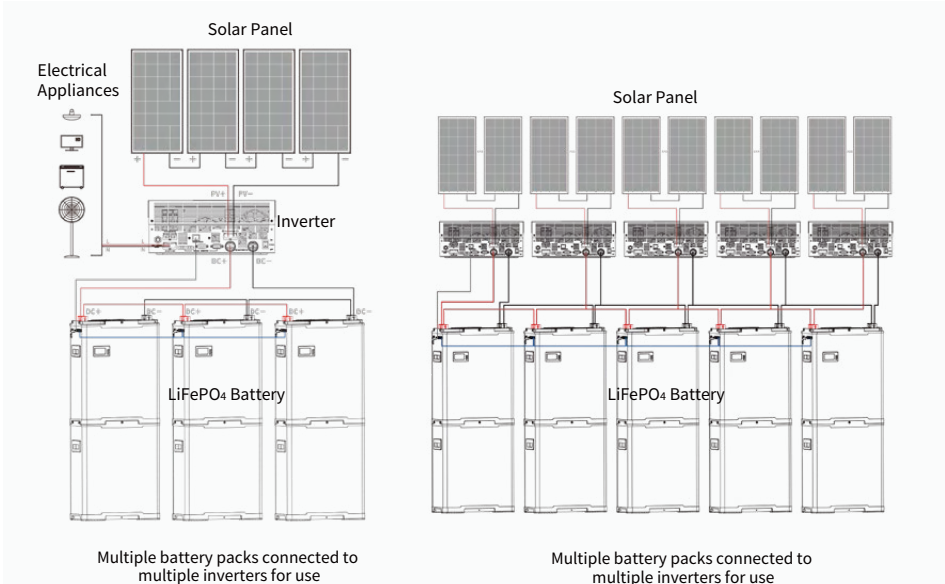
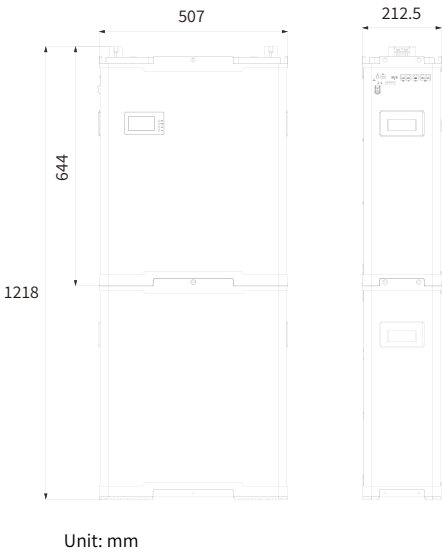
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh
Rated Current	120A

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
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

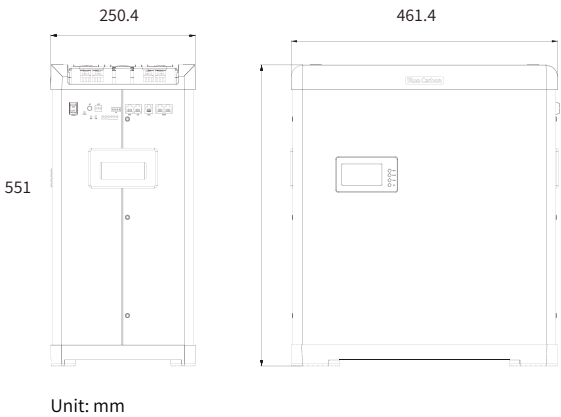
Nominal Capacity	100Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	5.12kWh
Rated Current	80A

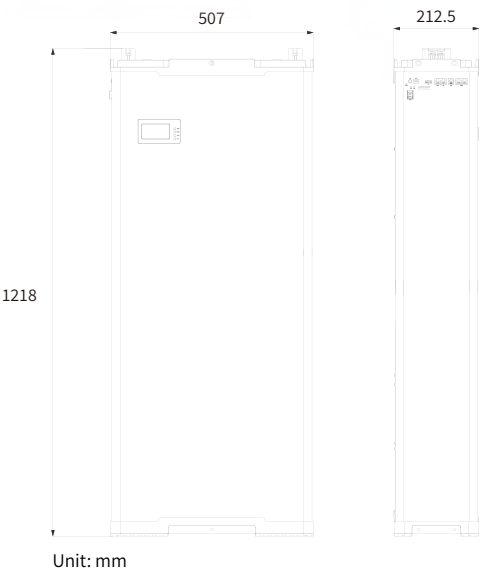
Battery

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
Package Size	550(±2)X333(±2)X631(±2)mm





Technical Parameters

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

Basic Specifications

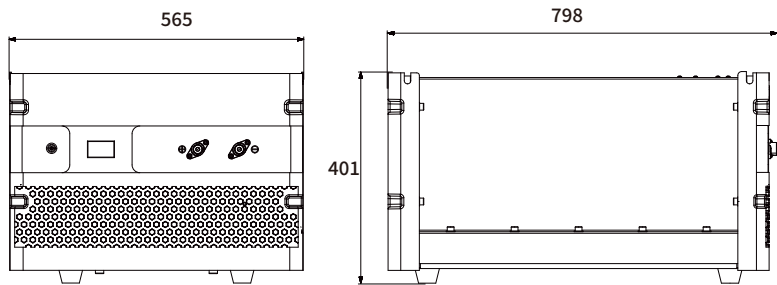
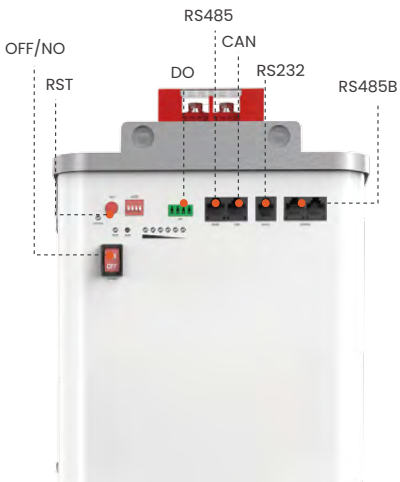
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh
Rated Current	120A

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
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

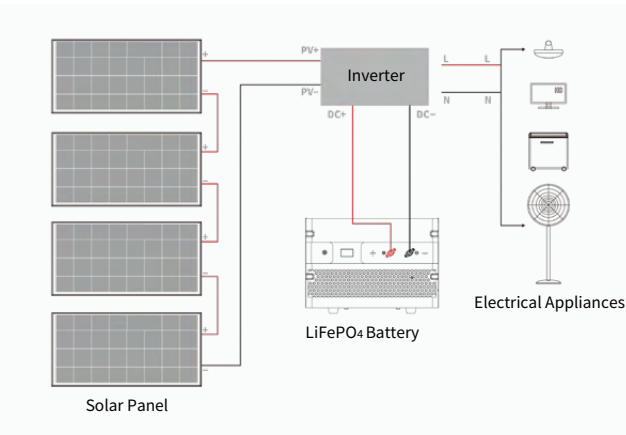
Continuously Use Output Current	120A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	120A

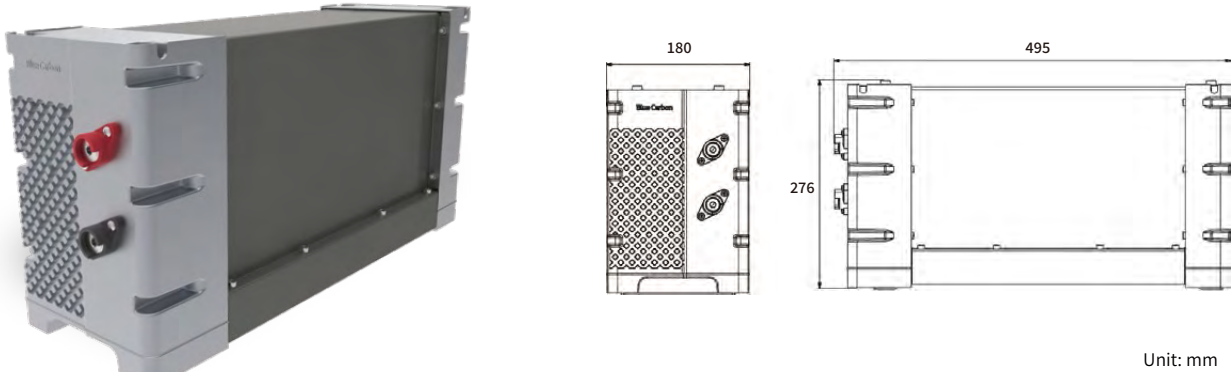
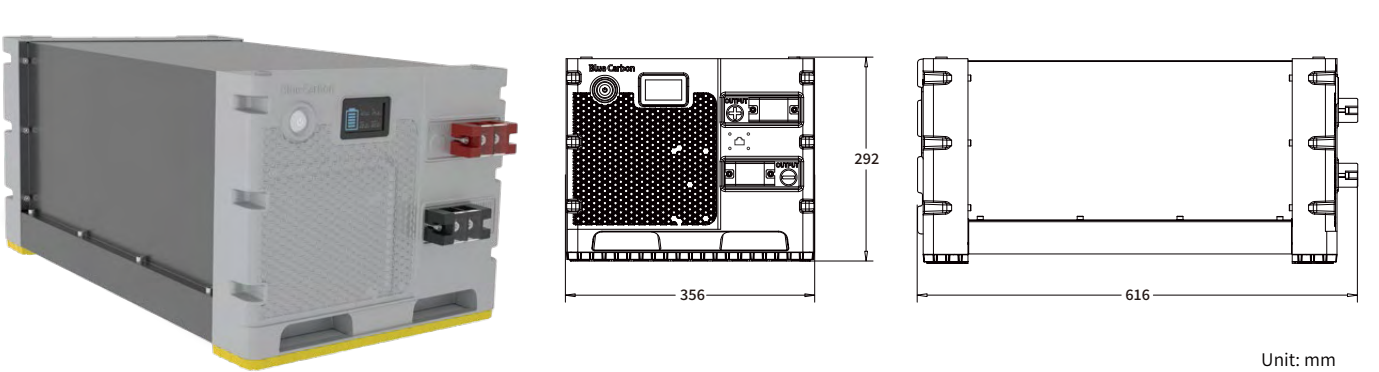
Other

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

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: 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	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

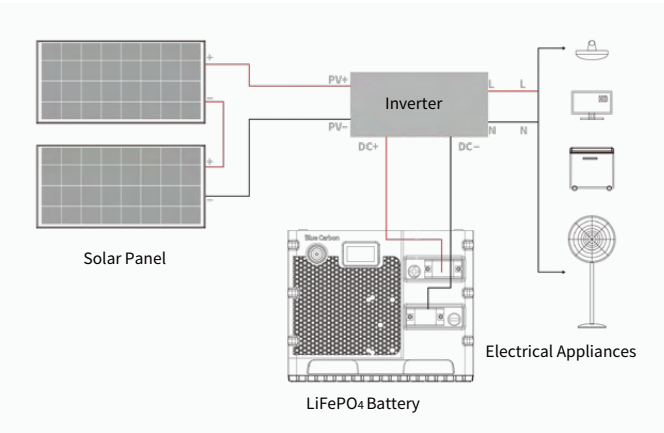
Continuously Use Output Current	80A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load

Other

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

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: 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

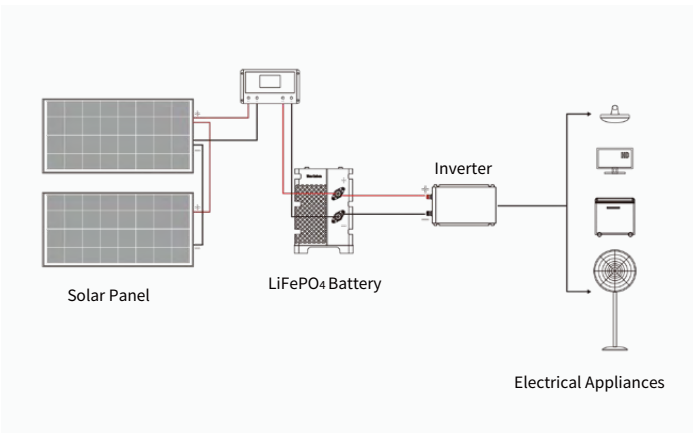
Continuously Use Output Current	100A
Discharge Cut-off Voltage	10V-12V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load

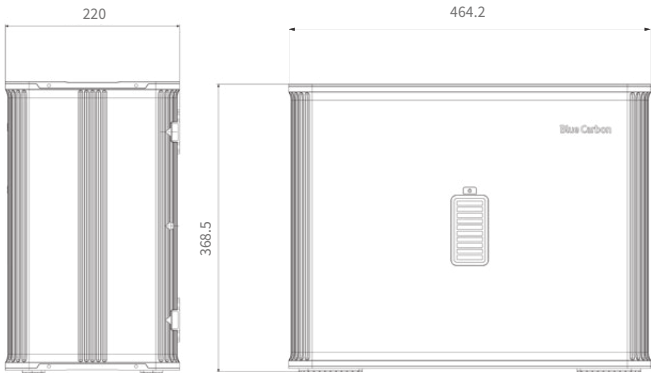
Other

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

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

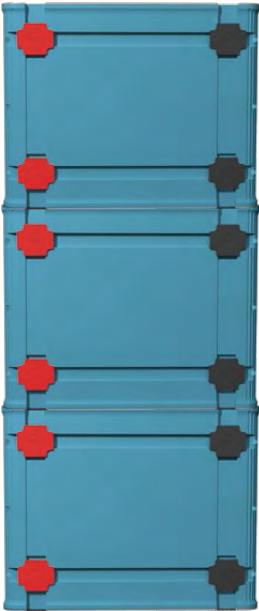


Switch

Power Indicator Light



Unlimited Parallel Connection



Multiple color combinations

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

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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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.



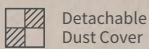
Photovoltaic Inverter



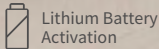
| Off-grid Inverter



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; 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)

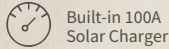
General Data

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)

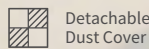
Activation

AC Activation	YES
PV Activation	YES

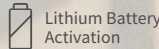
| Solar Inverter



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; 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

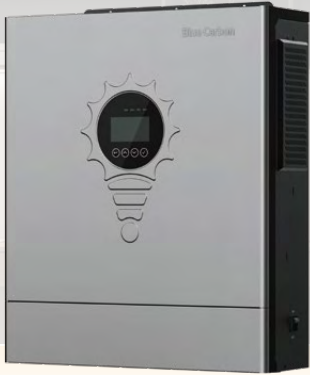
BCT-FXC-6.5KW-H-P

• 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 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		
	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		
Battery	Max AC Charge Current (A)	120		
	Max. Charge Current (PV + AC)(A)	120		
	Rated Voltage (VDC)	48		
	Floating Charge Voltage (VDC)	54		
Interface	Overcharge Protection (VDC)	61		
	Battery Type	Lithium and Lead -acid		
	HMI	LCD	LCD	LCD
	Interface	RS232/RS485/CAN	RS232/RS485/CAN/Parallel Interface	RS232/RS485/CAN/Parallel Interface
General Data	Monitoring	WiFi (Optional: None/ Internal / External)	WiFi(optional/built-in-external)	WiFi(optional/built-in-external)
	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 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 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

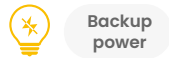
Ingress Protection	IP21
Operating Temperature	-10°C~60°C
Relative Humidity	5%~95% (Non-condensing)
Storage Temperature	-15°C~60°C
Net Weight (kg)	15
Dimensions (W*H*D)	495*425*120mm(without bracket)
Max.Operating Altitude	4000m (Derating above 1000m)

Portable System



Sun-Power

Solar Home System



Backup power



Camping



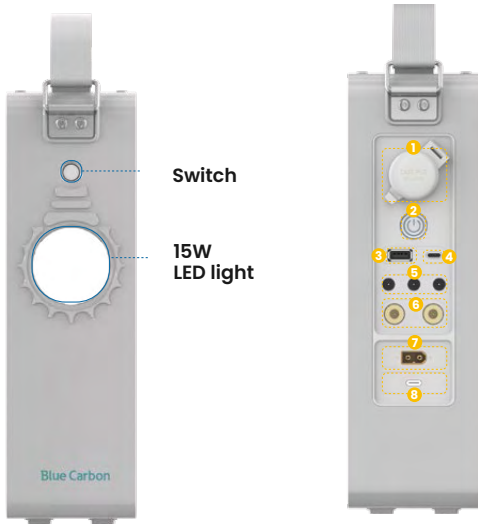
Travel



BCT-SHS1.0



BCT-SHS2.0



Switch

15W LED light

1 Car Charger Output 12V10A

2 Switch Charge Discharge 0%~60% 10%~0% 60%~99% 60%~10% 100% 100%~60%

3 USB Output 5V2A

4 Type-C Output 5V2A

5 DC Bulb Output 12V2A

6 DC Appliance Output 12V10A

7 12V PV Input 5V-12A

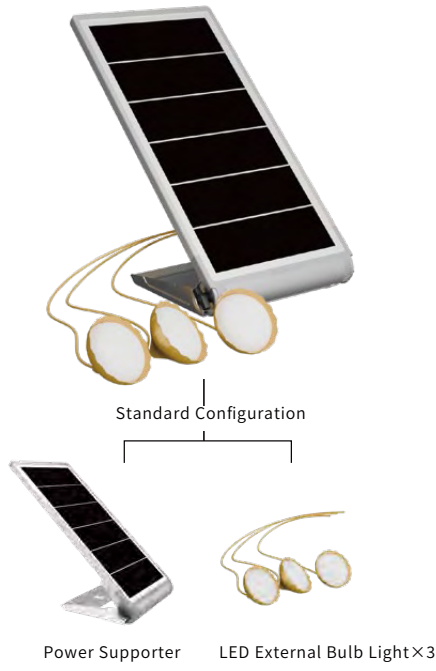
8 Type-C AC Inout 5-12V-5A

Technical Parameters

Model	Model: BCT-SHS1.0	Model: BCT-SHS2.0
Solar Panel	12V60W	12V120W
Open-Circuit Voltage (Voc)	16.56V	16.76V
Optimum Operating Voltage (Vmp)	14.39V	14.32V
Short-Circuit Current (Isc)	4.17A	8.9A
Optimum Operating Current (Imp)	4.18A	8.39A
Working Efficiency (%)	22%	22%
LiFePO ₄ Battery		
Nominal Voltage	3.2V	3.2V
Electricity (kwh)	0.5kWh	1kWh
DOD	80%	80%
Cycle	>6000 cycles, <0.5C	>6000 cycles, <0.5C
Output		
Car Charger Output	12V10A	12V10A
USB Output	5V2A	5V2A
Type-C Output	5V2A	5V2A
DC Bulb Output	12V2A	12V2A
DC Home Appliance Output	12V10A	12V10A
Max Output Power	100W	240W
Other		
LED Bulb	10W×3Pcs	10W×3Pcs
Builitn LED	15W	15W
Product Size	236mm×82mm×276mm	236mm×137mm×276mm

Power Supporter

Portable Micro-energy Storage System



Standard Configuration

Power Supporter

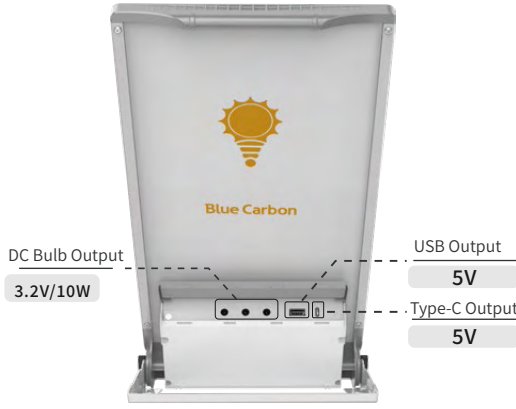
LED External Bulb Light×3



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



DC Bulb Output

3.2V/10W

USB Output

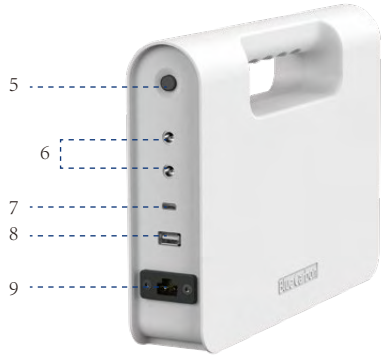
5V

Type-C Output

5V

Carbon Free

Solar Home System

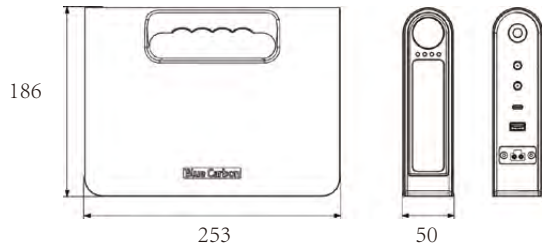


- 1 High Beam
- 2 Power Indicator
- 3 Flood Light
- 4 SOS Light
- 5 Switch
- 6 DC Output
- 7 USB Type-C Output
- 8 USB Output
- 9 DC Input

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

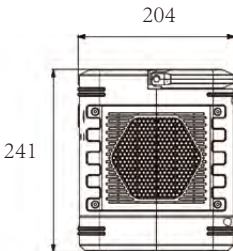
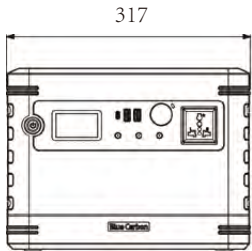
Nominal Capacity	80Ah
Nominal Voltage	12V(12.8V)
Electricity(kWh)	1024Wh
USB Output	Two output 5V/2A
DC Output	Three output 12V/2A
Car Charger Output	12V/10A
Type-C Output	5V/2A
Charging Voltage	14.6V-20V
Cut-Off	2.5V single cell
AC Output Power	220V/1.1KW
AC Output Frequency	50Hz; Pure sine wave
Depth of Discharge	>80%
Self-Discharge (25°C)	<3%/month
Working Temperature Range	-20°C—70°C
Recommended Temperature Range	10°C—45°C



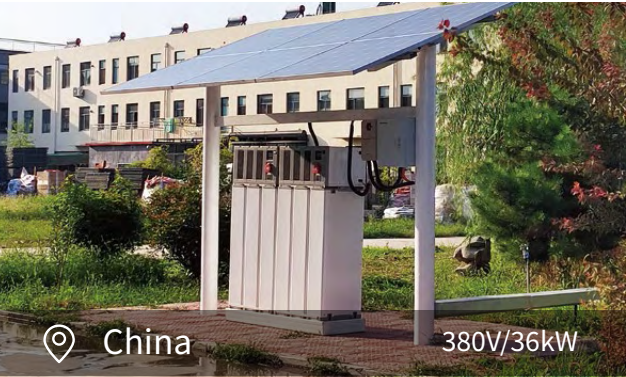
- 1 Handle
- 2 Master Switch
- 3 Display
- 4 Type-C Output
- 5 USB Output
- 6 DC Output
- 7 Car Charger Output
- 8 AC Output
- 9 DC Input



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.



Installation cases





📍 Tanzania

380V/54kW



📍 Singapore

220V/6kW



📍 Malawi

Battery | Inverter



📍 Philippines

Battery | Inverter



📍 Philippines

Battery | Solar Panel



📍 Philippines

220V/12kW



📍 Niger

380V/54kW



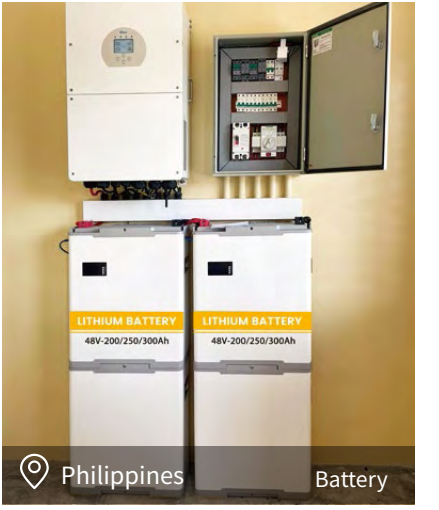
📍 Middle East

Battery



📍 Israel

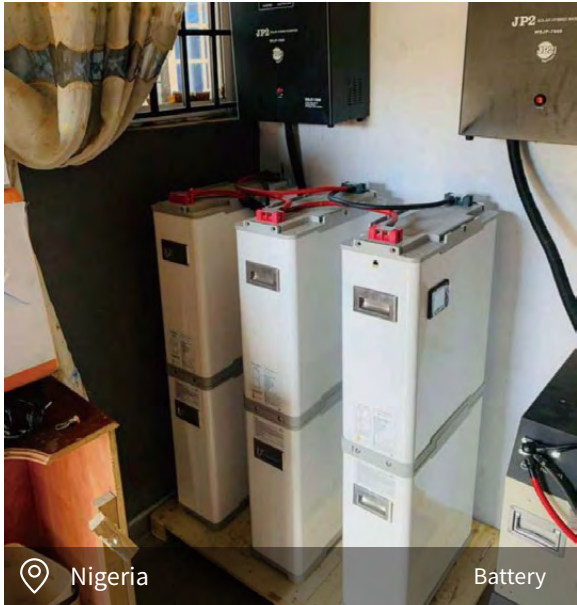
Battery





📍 Puerto Rico

Battery



📍 Nigeria

Battery



📍 Brazil

Battery



📍 Saipan

Battery



Battery×3



📍 Lebanon

Battery



📍 Lebanon

Battery



📍 Afghanistan

Battery



📍 Yemen

Battery×3



📍 Yemen

Battery×2



Nigeria 48V Battery



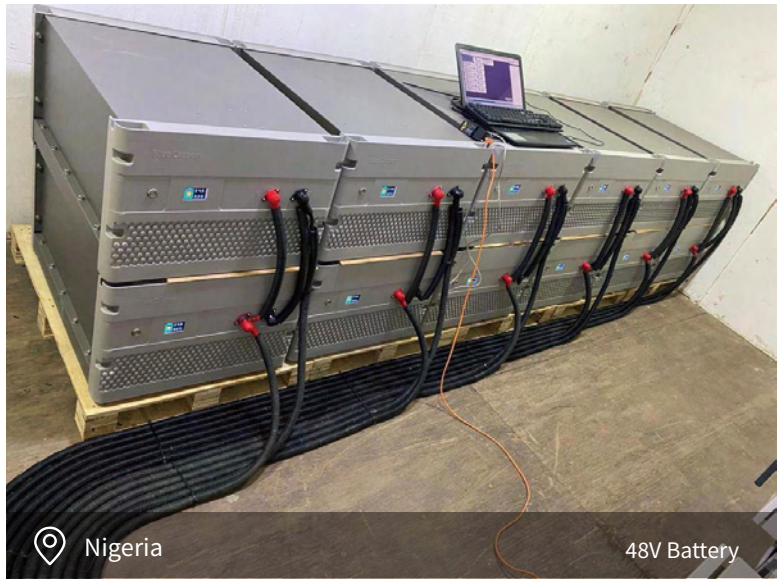
Philippines 48V Battery



Congo 48V Battery



Nigeria 48V Battery



Nigeria 48V Battery



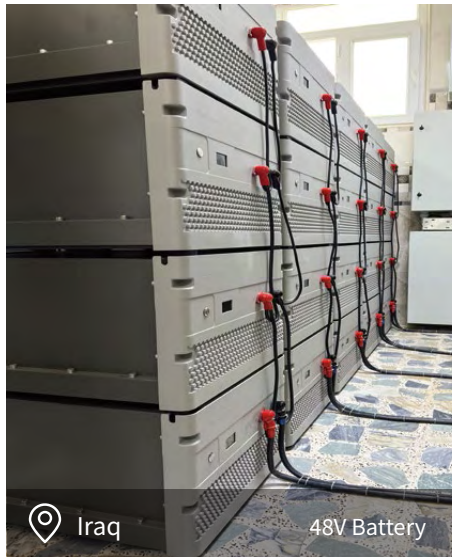
Nigeria 24V Battery



Guadeloupe 24V Battery



Philippines 48V Battery



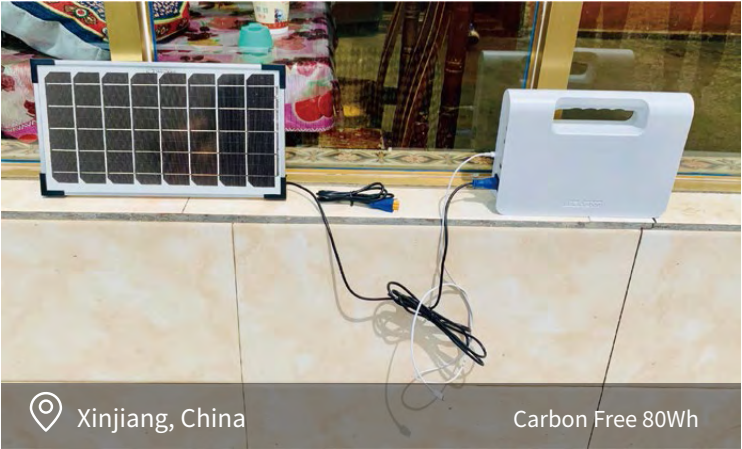
Iraq 48V Battery



Turkey 12V Battery



Puerto Rico 12V Battery



OTHER EFFECT DISPLAY

Sun-power

