

Blue Carbon Technology Inc. (Abbr: BCT), which officially entered in Rizhao in 2009, is one of the earliest suppliers of photovoltaic product R&D and micro-energy storage system solutions in the world. Blue Carbon is committed to bringing clean energy into every person, every family and every organization, so as to build a more healthy and sustainable world. At present, Blue Carbon has thirteen industrialized 5.0 factories, more than 40 professional scientific and technical personnel, and invests more than 20% of the annual income in research every year. After many years of consumer market choice, Blue Carbon was laying hundreds of operation center and exhibition hall, to provide better after-sales service in the global.

Blue Carbon provides customers with competitive, safe and reliable products, solutions and services in photovoltaic lighting, general UPS, lithium iron phosphate batteries, micro-energy storage system, photovoltaic heating and other fields, and continuously creates value for customers with supply chain partners. Blue Carbon insists on continuous innovation based on customer demand, increasing investment in basic research, and jointly promoting the progress of photovoltaic energy storage industry.

Blue Carbon always adheres to the customer-centric, quality-driven growth of development ideas, actively invest in the research and development of new products. Aiming at the guarantee requirements of differentiated use environment and differentiated use demands, a series of cost-effective, high-quality and diversified product types have been launched. Through the combination and iteration of products, product systems and schemes covering the full life cycle of customers' use have basically been formed. With the continuous optimization of the business structure, the company's core business and new business value sustained and healthy development, business quality maintained the level of customer satisfaction, our service meets the very satisfaction from the customers.

Micro-Energy Storage System Solution Supplier!

100+

100+ patents designs, providing full range of solar products, solar solutions and services.

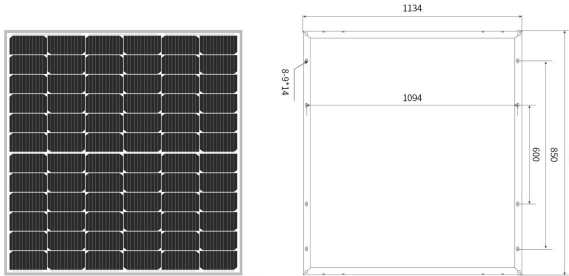
40+

40+ R&D staffs, innovative energy high-tech enterprise.



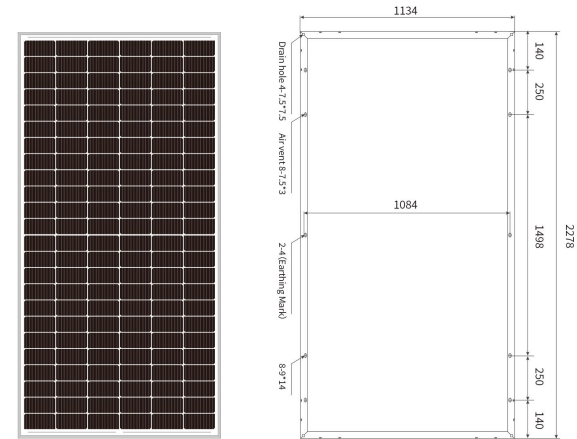
SOLAR PANEL
MONO-CRYSTALLINE
300W

12-year quality assurance;
25-year linear output power guarantee.



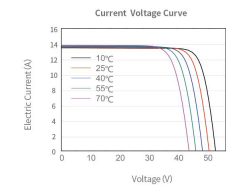
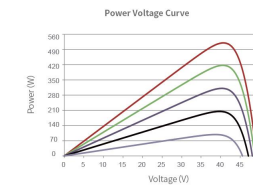
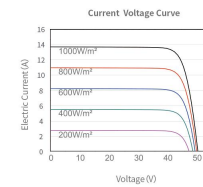
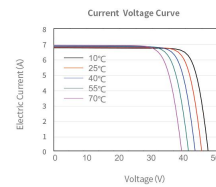
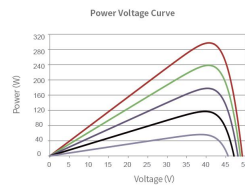
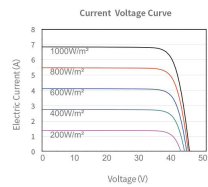
SOLAR PANEL
MONO-CRYSTALLINE
550W

12-year quality assurance;
25-year linear output power guarantee.



Electrical Characteristics	
Maximum Power at STC(Pmax)	300W
Optimum Operating Voltage(Vmp)	41.6V
Optimum Operating Current(Imp)	7.21A
Open-Circuit Voltage(Voc)	48.05V
Short-Circuit Current (Isc)	7.91A
Component Efficiency (%)	20.7%
Temperature Coefficient of Voc	-(80±10) mV/°C
Temperature Coefficient of Isc	(0.065±0.015) %/°C
Temperature Coefficient of Pmax	-(0.5±0.05) %/°C
NOTC (Air20°C,Sun0.8km/m²,Wind1m/s)	47±2°C
Operating Temperature	-40°C 85°C
Max System Voltage	1000V DC
Power Tolerance	0→+3W

Electrical Characteristics	
Maximum Power at STC(Pmax)	550W
Optimum Operating Voltage(Vmp)	41.95V
Optimum Operating Current(Imp)	13.12A
Open-Circuit Voltage(Voc)	49.8V
Short-Circuit Current (Isc)	13.98A
Component Efficiency (%)	21.5%
Temperature Coefficient of Voc	-(80±10) mV/°C
Temperature Coefficient of Isc	(0.065±0.015) %/°C
Temperature Coefficient of Pmax	-(0.5±0.05) %/°C
NOTC (Air20°C,Sun0.8km/m²,Wind1m/s)	47±2°C
Operating Temperature	-40°C 85°C
Max System Voltage	1500V DC
Power Tolerance	0→+3W



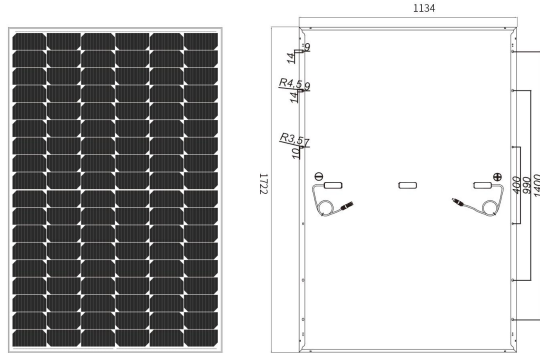
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SOLAR PANEL
MONO-CRYSTALLINE

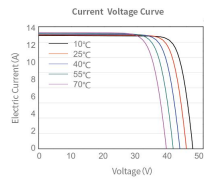
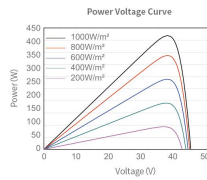
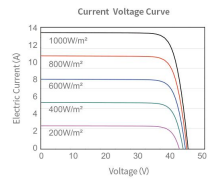
420W

12-year quality assurance;
25-year linear output power guarantee.



Electrical Characteristics

Maximum Power at STC(Pmax)	420W
Optimum Operating Voltage(Vmp)	31.64V
Optimum Operating Current(Imp)	13.27A
Open-Circuit Voltage(Voc)	38.07V
Short-Circuit Current (Isc)	13.96A
Temperature Coefficient of Voc	- (80 ± 10) mV/°C
Temperature Coefficient of Isc	(0.065 ± 0.015) %/°C
Temperature Coefficient of Pmax	- (0.5 ± 0.05) %/°C
NOTC (Air20°C, Sun0.8km/m², Wind1m/s)	47 ± 2°C
Operating Temperature	-40°C 85°C
Max System Voltage	1000V DC
Power Tolerance	0 ~ +3W

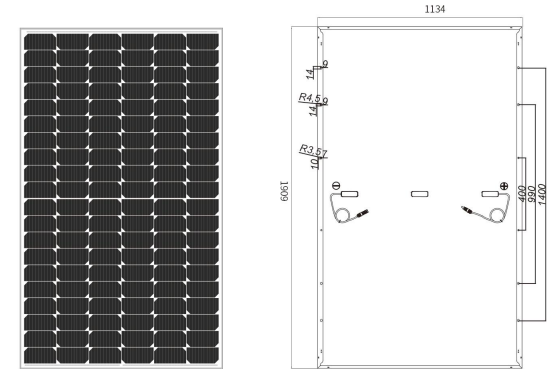


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SOLAR PANEL
MONO-CRYSTALLINE

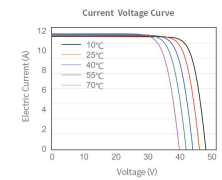
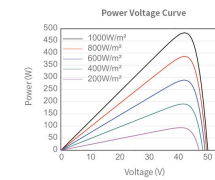
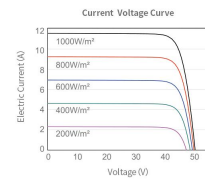
460W

12-year quality assurance;
25-year linear output power guarantee.



Electrical Characteristics

Maximum Power at STC(Pmax)	460W
Optimum Operating Voltage(Vmp)	34.5V
Optimum Operating Current(Imp)	13.33A
Open-Circuit Voltage(Voc)	41.78V
Short-Circuit Current (Isc)	14.05A
Temperature Coefficient of Voc	- (80 ± 10) mV/°C
Temperature Coefficient of Isc	(0.065 ± 0.015) %/°C
Temperature Coefficient of Pmax	- (0.5 ± 0.05) %/°C
NOTC (Air20°C, Sun0.8km/m², Wind1m/s)	47 ± 2°C
Operating Temperature	-40°C 85°C
Max System Voltage	1500V DC
Power Tolerance	0 ~ +3W



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5/6/7.2kWh

5 Years Warranty

(Power Generation-Storage-Inverter BOX)

INVERTER BOX

BCT-B3-V24-200/250/300(LFP)

Solar Panel	
Power	300W
Open-Circuit Voltage (Voc) [V]	49.52V
Optimum Operating Voltage (Vmp) [V]	41.32V
Short-Circuit Current (Isc) [A]	7.67A
Optimum Operating Current (Imp) [A]	7.26A
Component Efficiency [%]	22.68%
LiFePO ₄ Battery	
Nominal Voltage	24V
Nominal Capacity	200Ah/250Ah/300Ah
Electricity (kWh)	5.12kWh/6.4kWh/7.68kWh
Inverter	
Rated Power	3kW
Max. input Voltage	230Vac
Rated Frequency	50Hz / 60Hz (auto-sensing)
AC Voltage Regulation (Batt. Mode)	230Vac±5%
Waveform	Pure Sine Wave
Battery Voltage	24Vdc

*Specifications are subject to change without notice at any time.



10/12/15kWh

5 Years Warranty

(Power Generation-Storage-Inverter BOX)

INVERTER BOX

BCT-B5-V48-200/250/300(LFP)

Solar Panel	
Power	550W
Open-Circuit Voltage (Voc) [V]	49.8V
Optimum Operating Voltage (Vmp) [V]	41.95V
Short-Circuit Current (Isc) [A]	13.98A
Optimum Operating Current (Imp) [A]	13.12A
Component Efficiency [%]	21.5%
LiFePO ₄ Battery	
Nominal Voltage	48V
Nominal Capacity	200Ah/250Ah/300Ah
Electricity (kWh)	10.24kWh/12.8kWh/15.36kWh
Inverter	
Rated Power	5.5kW
Max. input Voltage	230Vac
Rated Frequency	50Hz / 60Hz (auto-sensing)
AC Voltage Regulation (Batt. Mode)	230Vac±5%
Waveform	Pure Sine Wave
Battery Voltage	48Vdc

*Specifications are subject to change without notice at any time.



LiFePO4 Battery Pack

SMART-BCT-V-24-200/250/300

5.12/6.4/7.68kWh

If need lithium battery with hardware BMS, pls directly contact us.

5 Years Warranty



LiFePO4 Battery Pack

SMART-BCT-V-48-200/250/300

10.24/12.8/15.36kWh

If need lithium battery with hardware BMS, pls directly contact us.

5 Years Warranty

Basic Specifications	
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	24V(25.6V)
Input	
Full Charge Voltage	28.8V-30V
Maximum Charging Voltage	50V
Input Voltage Range	30V-50V
Continuously Use Input Current	100A
Output	
Continuously Use Output Current	100A
Discharge Cut-off Voltage	20V-24V
Instant Start Current	400A
Instant Start Current Time	10S
Battery	
Cell Type	LiFePO4 Battery/LFP
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (<0.5C)
Other	
Product Size	507(±5) × 212(±5) × 614(±5)mm
Package Size	668(±2) × 328(±2) × 706(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

*Specifications are subject to change without notice at any time.

Basic Specifications	
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Input	
Full Charge Voltage	56V-60V
Maximum Charging Voltage	90V
Input Voltage Range	60V-100V
Continuously Use Input Current	100A
Output	
Continuously Use Output Current	100A
Discharge Cut-off Voltage	38V-48V
Instant Start Current	300A
Instant Start Current Time	10S
Battery	
Cell Type	LiFePO4 Battery/LFP
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (<0.5C)
Other	
Product Size	507(±5) × 212(±5) × 1188(±5)mm
Package Size	668(±2) × 645(±2) × 678(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

*Specifications are subject to change without notice at any time.



LiFePO4 Battery Pack

BCT-UU 24-200/250/300

5.12/6.4/7.68kWh

5 Years Warranty



LiFePO4 Battery Pack

BCT-UU 48-200/250/300

10.24/12.8/15.36kWh

5 Years Warranty

Basic Specifications	
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	24V(25.6V)
Input	
Full Charge Voltage	28.8V-30V
Maximum Charging Voltage	50V
Input Voltage Range	30V-50V
Continuously Use Input Current	100A
Output	
Continuously Use Output Current	100A
Discharge Cut-off Voltage	20V-24V
Instant Start Current	400A
Instant Start Current Time	10S
Battery	
Cell Type	LiFePO4 Battery/LFP
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (<0.5C)
Other	
Product Size	616(±5) × 356(±5) × 292(±5)mm
Package Size	680(±2) × 430(±2) × 372(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

*Specifications are subject to change without notice at any time.

Basic Specifications	
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Input	
Full Charge Voltage	56V-60V
Maximum Charging Voltage	90V
Input Voltage Range	60V-100V
Continuously Use Input Current	100A
Output	
Continuously Use Output Current	100A
Discharge Cut-off Voltage	38V-48V
Instant Start Current	300A
Instant Start Current Time	10S
Battery	
Cell Type	LiFePO4 Battery/LFP
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (<0.5C)
Other	
Product Size	798(±5) × 565(±5) × 401(±5)mm
Package Size	903(±2) × 671(±2) × 451(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

*Specifications are subject to change without notice at any time.



LiFePO4 Battery Pack

UU 12-100
UU 12-200/250/300

1.28kWh 2.56/3.2/3.84kWh
5 Years Warranty



LiFePO4 Battery Pack

BCT-UU 12-200/250/300

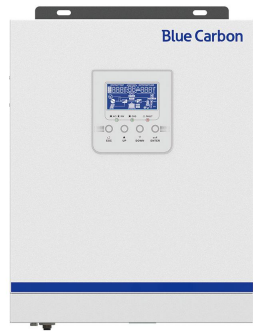
2.56/3.2/3.84kWh
5 Years Warranty

Basic Specifications		
Model	UU 12-100	UU 12-200/250/300
Nominal Capacity	100Ah	200Ah/250Ah/300Ah
Nominal Voltage	12V(12.8V)	12V(12.8V)
Input		
Full Charge Voltage	14.4V-15V	14.4V-15V
Maximum Charging Voltage	25V	25V
Input Voltage Range	15V-30V	15V-30V
Continuously Use Input Current	80A	100A
Output		
Continuously Use Output Current	80A	100A
Discharge Cut-off Voltage	10V-12V	10V-12V
Instant Start Current	400A	400A
Instant Start Current Time	10S	10S
Battery		
Cell Type	LiFePO4 Battery/LFP	LiFePO4 Battery/LFP
Depth of Discharge	>80%	>80%
C-rate Discharge	<0.8C	<0.8C
Cycle Life	> 6000 times (<0.5C)	> 6000 times (<0.5C)
Other		
Product Size	507(±5) × 144(±5) × 188(±5)mm	495(±5) × 180(±5) × 276(±5)mm
Package Size	575(±2) × 220(±2) × 260(±2)mm	575(±2) × 260(±2) × 335(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM	UN38.3/CE/MSDS/DGM

*Specifications are subject to change without notice at any time.

Basic Specifications	
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	12V(12.8V)
Input	
Full Charge Voltage	14.4V-15V
Maximum Charging Voltage	25V
Input Voltage Range	15V-30V
Continuously Use Input Current	100A
Output	
Continuously Use Output Current	80A
Discharge Cut-off Voltage	10V-12V
Instant Start Current	400A
Instant Start Current Time	10S
Battery	
Cell Type	LiFePO4 Battery/LFP
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (<0.5C)
Other	
Product Size	831(±5) × 540(±5) × 90(±5)mm
Package Size	895(±2) × 628(±2) × 181(±2)mm
Certification Standards	UN38.3/CE/MSDS/DGM

*Specifications are subject to change without notice at any time.



Inverter DT3KSG-INV24

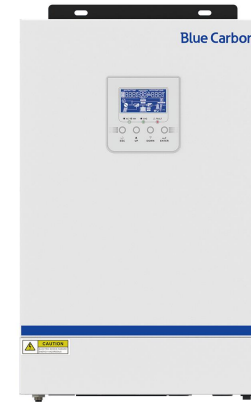
Single Phase Off-Grid Solar Inverter

RS485

Communication Port

Rated Power	
	3200VA/3000W
Input	
Voltage	230Vac
Selectable Voltage Range	170Vac~280Vac(for personal computers); 90Vac-280Vac(for home appliances)
Frequency Range	50Hz/60Hz(auto sensing)
Output	
AC Voltage Regulation (Batt. Mode)	230Vac±5%
Surge Power	6400VA
Overload Capability	5s@>150%load; 10s@110%~150%load
Efficiency (Peak)	94%
Battery	
Battery Nominal Voltage	24Vdc
Floating Charge Voltage	27Vdc
Overcharge Protection	33Vdc
Solar Charger & AC Charge	
Solar Charger Type	MPPT
Maximum PV Array Power	3000W
Solar Charger Type	240Vdc
MPPT Range	90Vdc-430Vdc
Protection	
Protection	AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc.
General Data	
Dimension (W x H x D)	348x282x105mm
Net Weight	5.5kg
Protect Degree	IP21
Operating Temperature	0C~+55°C
Storage Temperature	-15C~+60C

*Specifications are subject to change without notice at any time.



Inverter DT5.5KSG-INV48 & DT5.5K-INV48P

Single Phase Off-Grid Solar Inverter

RS232/RS485

Communication Port

Rated Power	
	5500VA/5500W
Input	
Voltage	230Vac
Selectable Voltage Range	170Vac~280Vac(for personal computers); 90Vac-280Vac(for home appliances)
Frequency Range	50Hz/60Hz(auto sensing)
Output	
AC Voltage Regulation (Batt. Mode)	230Vac±5%
Surge Power	11000VA
Overload Capability	5s@>150%load; 10s@110%~150%load
Efficiency (Peak)	94%
Battery	
Battery Nominal Voltage	48Vdc
Floating Charge Voltage	52Vdc
Overcharge Protection	62Vdc
Solar Charger & AC Charge	
Solar Charger Type	MPPT
Maximum PV Array Power	6000W
MPPT Range	120Vdc~450Vdc
Protection	
Protection	AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc.
General Data	
Dimension (W x H x D)	472x297x133mm
Net Weight	10.5kg
Protect Degree	IP21
Operating Temperature	0°C~+55°C
Storage Temperature	-15°C~+60°C
Parallel	No/Up to 6 pcs

*Specifications are subject to change without notice at any time.



PV Energy Storage System

Carbon Free

BCT-CF1.0

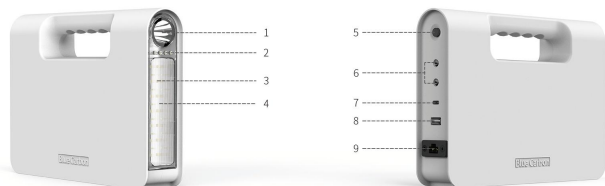


Powered by Cree LED™ Products

Powered by Cree LED™ Products

Small size, convenient to carry

Built-in led and outer led all can meet



- 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	
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; line length 3m
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
Warranty	Battery warranty 5 years

*Specifications are subject to change without notice at any time.



- 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

SOLAR-STORAGE-APPLICATION INTEGRATED SYSTEM

1kWh (Solar Power System)

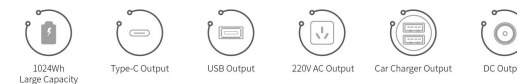
BCT-SPS 12-80



With generation, storage and usage integrated

With its own inverter design

With folding handle, portable



Technical Parameters	
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
AC Output Power	220V/1.1KW
AC Output Frequency	50Hz; Pure sine wave
Depth of Discharge	>80%
Warranty	Battery warranty 3 years

*Specifications are subject to change without notice at any time.



Direct Current Apparatus
DC Air Conditioner
 BCT-DCAC



DC Power Supply



Independent Refreshing and Dehumidifying



Temperature Query



Beautiful Light



Strong Run



Bass Run

Technical Parameters	
Name	DC Air Conditioner
Nominal Voltage	20V-30V
Refrigerating Capacity	2500W
Electric Power	700W
Refrigerating Fluid	R134a
BTU	8552
Applicable Area	20-40m ²
Installation	Hang a Wall

*Specifications are subject to change without notice at any time.



Direct Current Apparatus
60L DC Freezer
 BCT-DCF



Lock fresh and keep cold



Silent operation



Efficient refrigeration



Low frost storage



Green environmental protection



Small size without land occupation

Technical Parameters	
Name	DC Freezer
Power	86W; 293Btu/h
Available Capacity	60L
Volume of Freezer	60L
Freezing Temperature	≤-18°C
Input Voltage	DC12V

*Specifications are subject to change without notice at any time.



Direct Current Apparatus

DC FAN

BCT-DCFAN



Clean air supply



The hood is easy to remove and wash



Strong Wind



Wide angle air supply



Low working sound



Lightweight fuselage



STORAGE ENERGY

With solar energy to achieve clean energy charging.



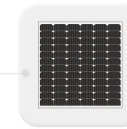
SUPPLY POWER FOR HOME

No or power unstable, can power for the home with the storage energy.



DC APPARATUS

Whole package, DC appliances are complete.



DC Air Conditioner >



DC Rice Cooker >



DC Juicer >



DC TV >



DC Light >



DC Fan >



DC Freezer >



DC Kettle >



Technical Parameters	
Name	DC Fan
Power	3-24W
Voltage	12V
Gear	9 Skills
Function	120° large angle swing head
Wind Blade	Five-leaf inner fan, nine-leaf outer fan
Timing	8 hrs

*Specifications are subject to change without notice at any time.

DC TIMES

It is a home-based power supply solution system.

Solar Package is mainly composed of photovoltaic, energy storage and loads. As an independent off-grid system, generation and storage integrated, it can be charged by solar energy, then provide electricity to the loads, which can solve the problem of electricity consumption in the area without electricity. The application is wide and is not affected by the State Grid.