Blue Carbon

PV ENERGY STORAGE SYSTEM

$LiFePO_4$ Battery Pack

BCT-V-24-300

24V-300Ah

APPLICABLE PLACE

COMPREHENSIVE ENERGY SUPPLY

For no city power areas, the battery pack can be charged by solar panels and used for night lighting; For the areas that city power is expensive, the battery pack can be charged during the electricity valley value period, and used at the peak power period; For the areas which power off from time to time, the battery pack can be used as UPS, to avoid information loss caused by sudden power outage. The battery pack is applicable to commercial lighting, industrial lighting, home lighting, outdoor lighting, camping tourism, farming, planting, the night market stalls, etc.

Blue Carbon
+86-0633-2190373 https://www.bluecarbontech.com.cn/en/
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China
BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier

Blue Carbon

Daytime solar power generation
Cover daytime electricity

Night energy storage discharge
Cover power consumption at night

- Storing the power from the solar panel, to be used as reserve power or emergency power supply.
- At night or at the time of power outage, it can supply the power to electrical appliances by using the stored energy, to avoid the inconvenience caused by power outage, so that you can calmly deal with the situation of power outages.

Blue Carbon
+86-0633-2190373 https://www.bluecarbontech.com.cn/en/
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China

BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier

Blue Carbon

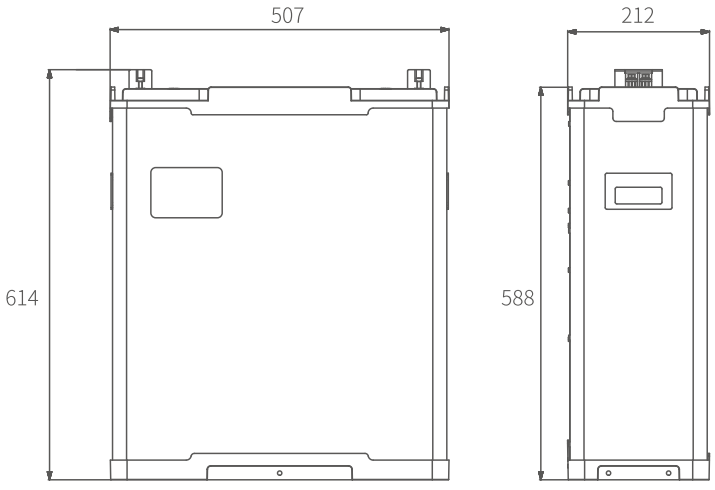
Technical Parameters

Model: BCT-V-24-300

Model	BCT-V-24-300	
Basic Specifications	Nominal Capacity	300Ah
	Nominal Voltage	24V(25.6V)
	Electricity(kWh)	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
	Rshoot 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

Battery	Cell Type	LiFePO4 Battery/LFP
	Storage Temperature Range	Short-Term -20℃-40℃(Within 1 month)
		Long-term 10℃-35℃(Within 1 year)
	Operating Temperature Range	-15℃-60℃
	Recommended Temperature range	10℃-40℃
	Storage Humidity	≤75% RH
	Atmospheric Pressure	Below the elevation of 5000m
	Self-Discharge (25°)	< 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
	Product Size	614±2mm×507±2mm×212±2mm
	Packing Size	668±2mm×328±2mm×706±2mm

PRODUCT SIZE



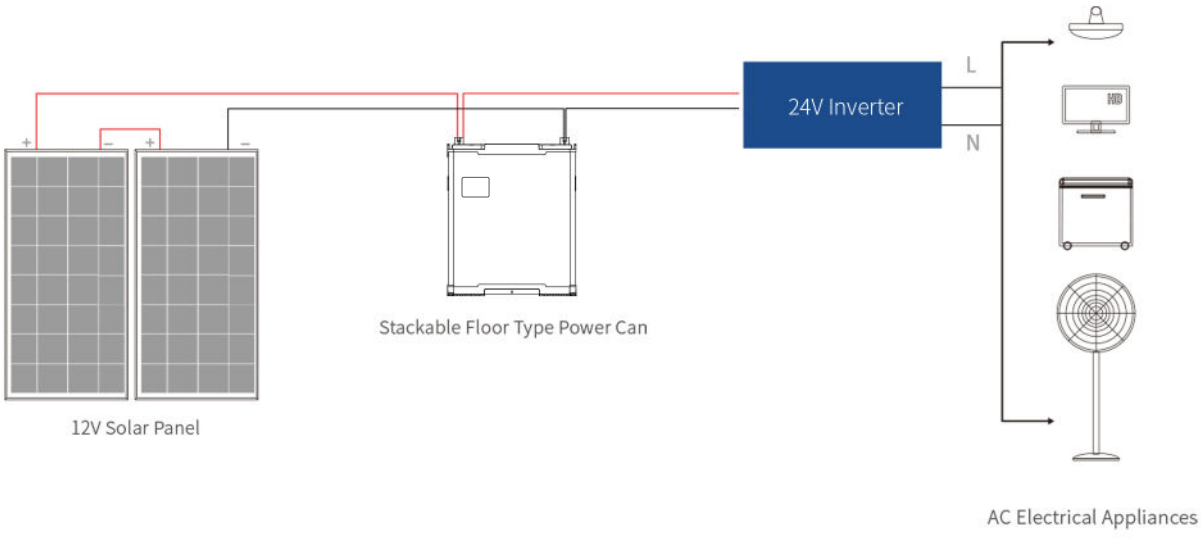
Unit: mm

Blue Carbon
+86-0633-2190373 https://www.bluecarbontech.com.cn/en/
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China

BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier

Blue Carbon

PRODUCT ADVANTAGES



- All in one mould design and production, easy to install.
- With longer span life LiFePO4 battery, over 12 years lifespan, ensure the whole set products' life span.
- Dustproof structure d esign, DC output, safe and reliable.
- Integrated packaging, safe and convenient to transport.
- Wide voltage input, when unexpected high voltage input, can effectively block the high voltage, so that the BMS of the battery will not be broken down, greatly reducing the risk of thermal runaway combustion of lithium battery.
- Compact appearance design, extremely compressed product thickness, greatly reducing space occupancy.
- High quality aluminium magnesium alloy, anti-corrosion, substantial, durable, artistic, practical.
- Integrated charging and storage, reduce wiring, installation and other work, and facilitate user operation.

Military Aviation Plug

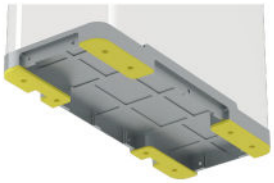
Never oxidize in high temperature, high humidity and high-salt environment; No risk of thermal runaway and fire

Split-type Building Block Design

Buckle design, which can increase the capacity by alignment and stacking; Firmly fixed and can be carried by single person

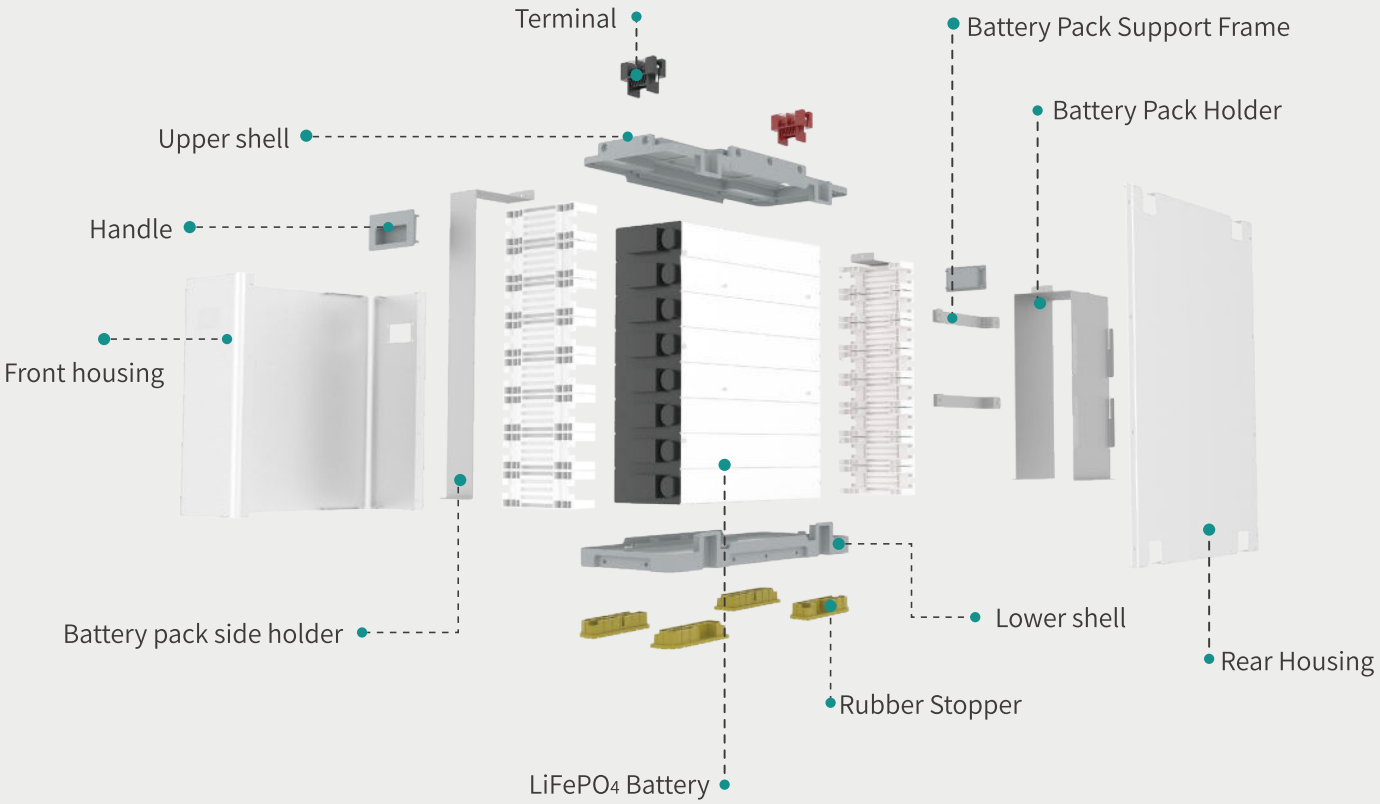
Rubber Feet Pad

The bottom of battery is equipped with rubber feet pad to increase safety and play roles of shock-proof buffer, anti-static, electrical insulation and so on.



Blue Carbon
+86-0633-2190373 https://www.bluecarbontech.com.cn/en/
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China
BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier

Blue Carbon



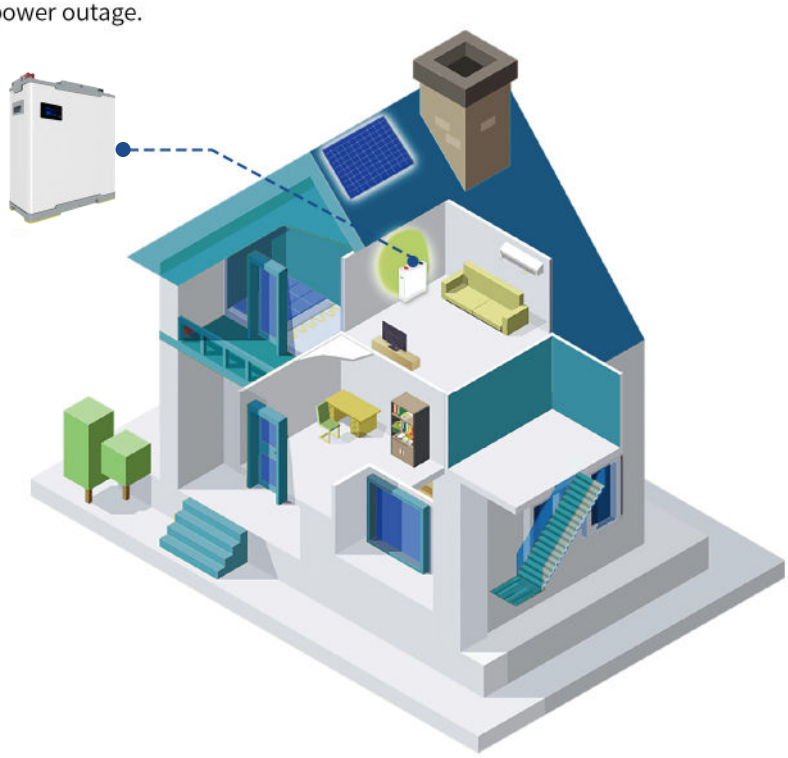
Store your electric energy to cope with the evening peak or power outage.

More Available Power

Flexible Investment

Simple Installation

Safe & Reliable



matters need attention:

- It is strictly forbidden to install near bedroom and nearby flammable material.
- Installation in inhabited rooms is not recommended.
- It is strictly forbidden to use the controllers, inverters, inverters and controller integrated equipment which are not professionally matched.

Blue Carbon
+86-0633-2190373 https://www.bluecarbontech.com.cn/en/
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China

BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier

Blue Carbon

Solar Energy

Using sunlight to achieve clean energy charging can supply power to household appliances.

Storing Energy

Realize the freedom of electricity consumption in the area where there is no electricity and less electricity.

Household

Free electricity.

Store your electric energy to cope with the evening peak or power outage.

Blue Carbon

+86-0633-2190373 https://www.bluecarbontech.com.cn/en/

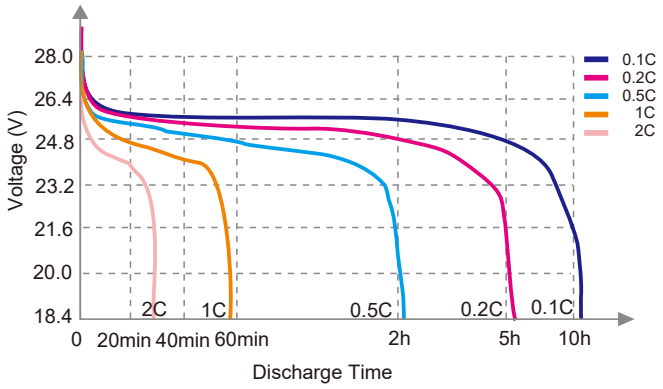
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China

BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier

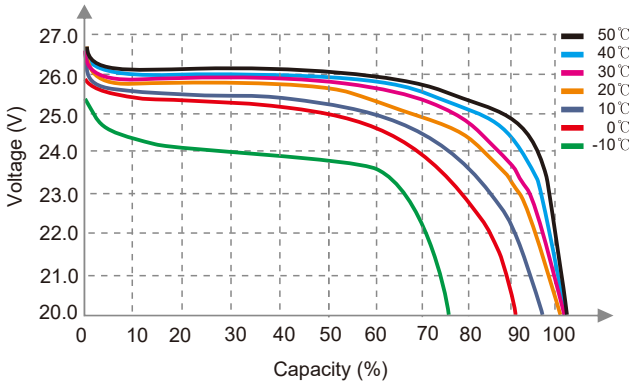
Blue Carbon

BATTERY SPECIFICATION

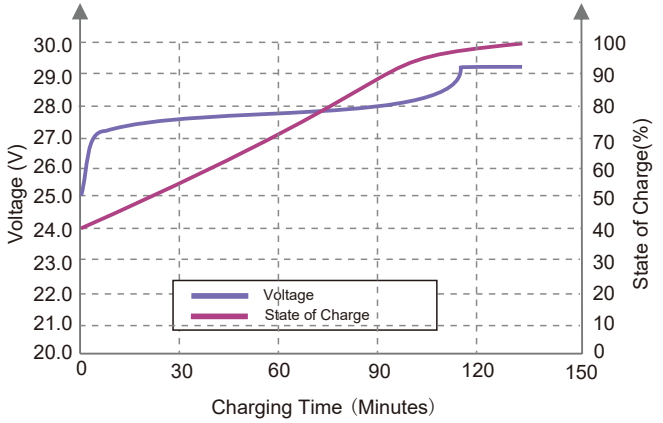
Different Rate Discharge Curve (25℃)



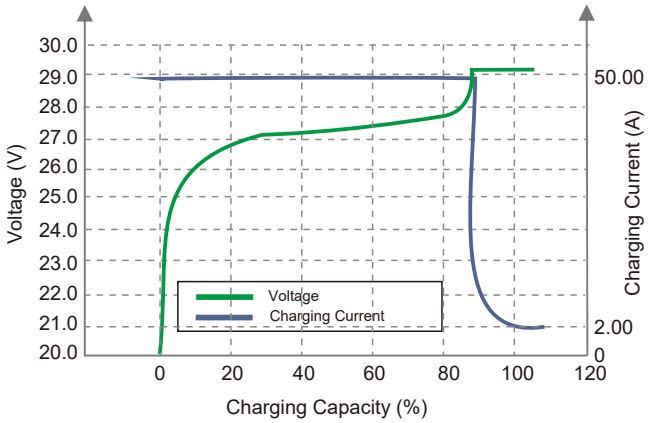
Different Temperature Discharge Curve (0.5C)



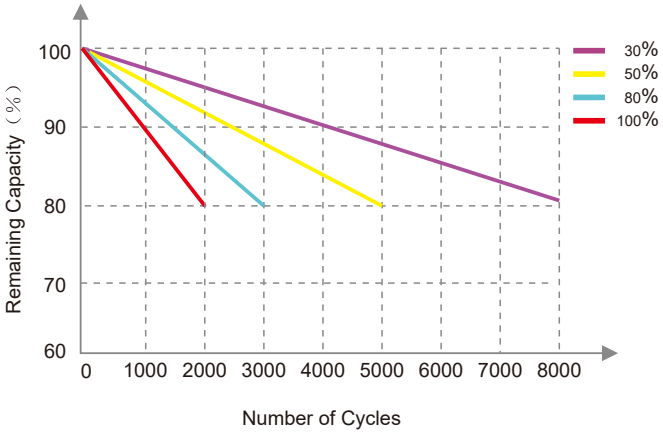
State of Charge Curve (0.5C, 25℃)



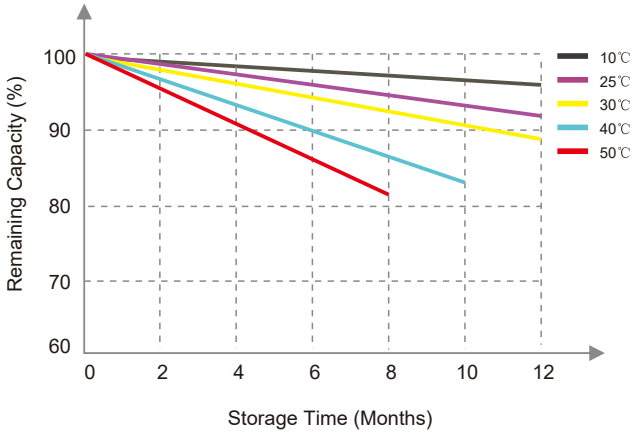
Charging Characteristics (0.5C, 25℃)



Different DOD Discharge Cycle Life Curve(1C）



Different Temperature Self Discharge Curve



Blue Carbon
+86-0633-2190373 https://www.bluecarbontech.com.cn/en/
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China

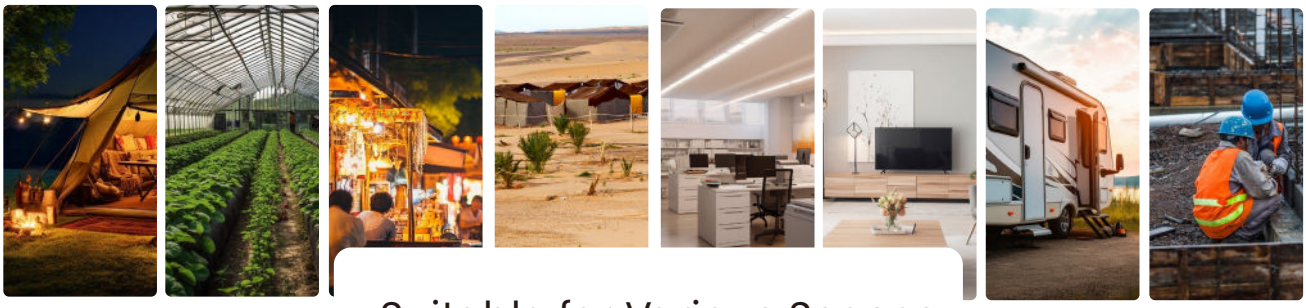
BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier

Blue Carbon

7.68kWh Stackable Floor Type Power Can LiFePO$_4$ Battery Pack

System Configuration

7.68kWh LiFePO$_4$ Battery Pack
Solar Panel
Solar Controller



Suitable for Various Scenes

Friendly man-machine Combination

Smart and Reliable

Scalable and Flexible

Blue Carbon
+86-0633-2190373 https://www.bluecarbontech.com.cn/en/
Add Office Location
Building A, International Fortune Center, Rizhao City,Shandong Province, China

BLUE CARBON TECHNOLOGY INC.
Photovoltaic Generation-Storage-Application System Supplier