



PV ENERGY STORAGE SYSTEM

LiFePO₄ Battery Pack

BCT-V-48-300

48V-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



Daytime solar power generation
Cover daytime electricity

Night energy storage discharge
Cover power consumption at night

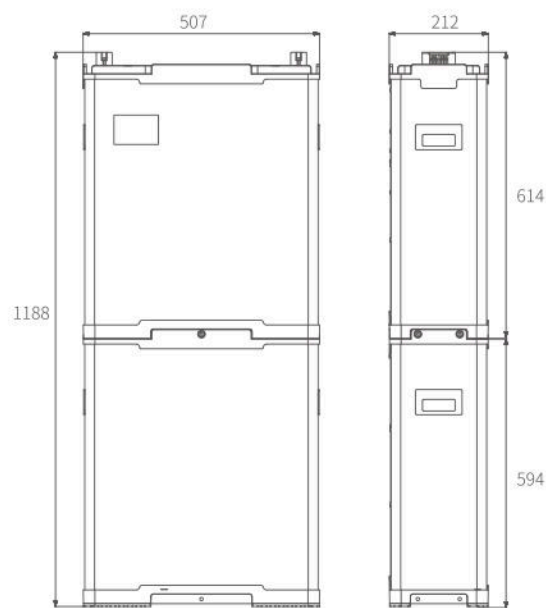
- ▶ Storing the power from the solar panel, to be used as reserve power or emergency power supply.
- ▶ At night or at the time of power outage, it can supply the power to electrical appliances by using the stored energy, to avoid the inconvenience caused by power outage, so that you can calmly deal with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

Technical Parameters

Model: BCT-V-48-300

Model	BCT-V-48-300		Battery	Cell Type	LiFePO ₄ Battery/LFP
Basic Specifications	Nominal Capacity	300Ah		Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
	Nominal Voltage	48V(51.2V)		Operating Temperature Range	-15°C-60°C
	Electricity(kWh)	15.36kWh		Recommended Temperature range	10°C-40°C
Input	Full charge Voltage	58.4V		Storage Humidity	≤75% RH
	Maximum Charging Voltage	60V		Atmospheric Pressure	Below the elevation of 5000m
	Input Voltage Range	58V-60V		Self-Discharge (25°)	< 3%/Month
	Continuously Use Input Current	100A		Depth of Discharge	> 80%
	Maximum Solar Panel Input Current	100A		C-rate Discharge	< 0.8C
	Rshoot Delay Protection	1000ms		Cycle Life	> 6000 times (< 0.5c)
Output	Continuously Use Output Current	100A	Other	Certification Standards	UN38.3/CE/MSDS/DGM
	Discharge Cut-off Voltage	44V-46V		Product Size	1188±2mm×507±2mm×212±2mm
	Over-Discharge Delay Protection	1000ms		Packing Size	668±2mm×605±2mm×678±2mm
	Short Circuit Protection Delay	300us			
	Short Circuit Protection Recovery	Disconnect load			
	Instant Start Current	300A			
	Instant Start Current Time	10S			

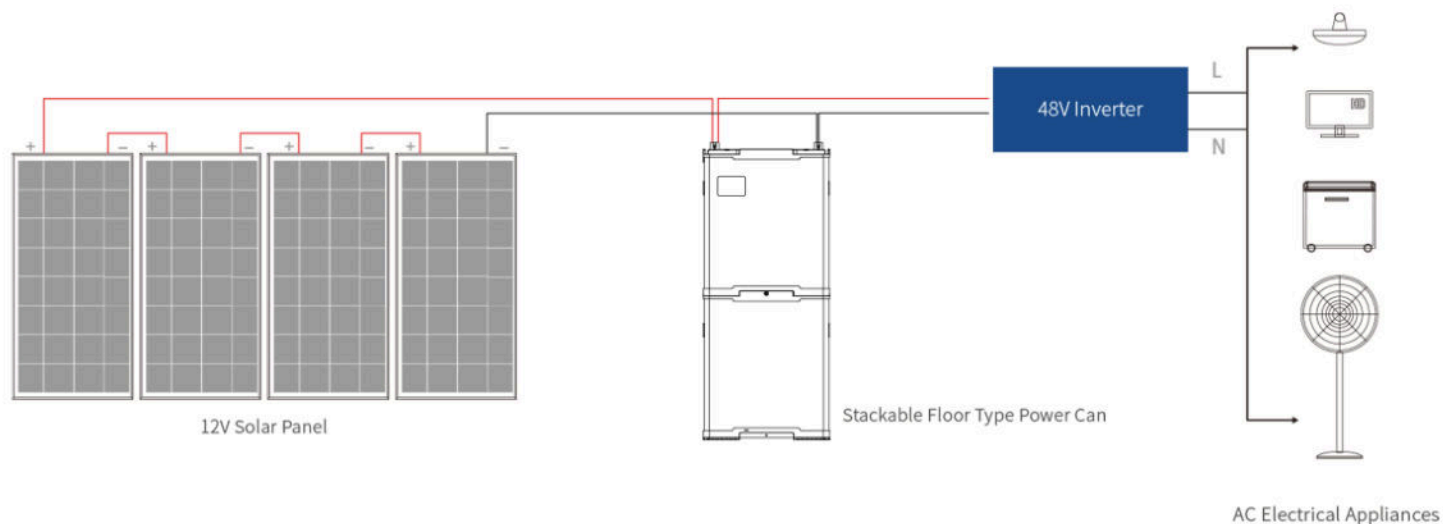
PRODUCT SIZE



Unit: mm

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 design, 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

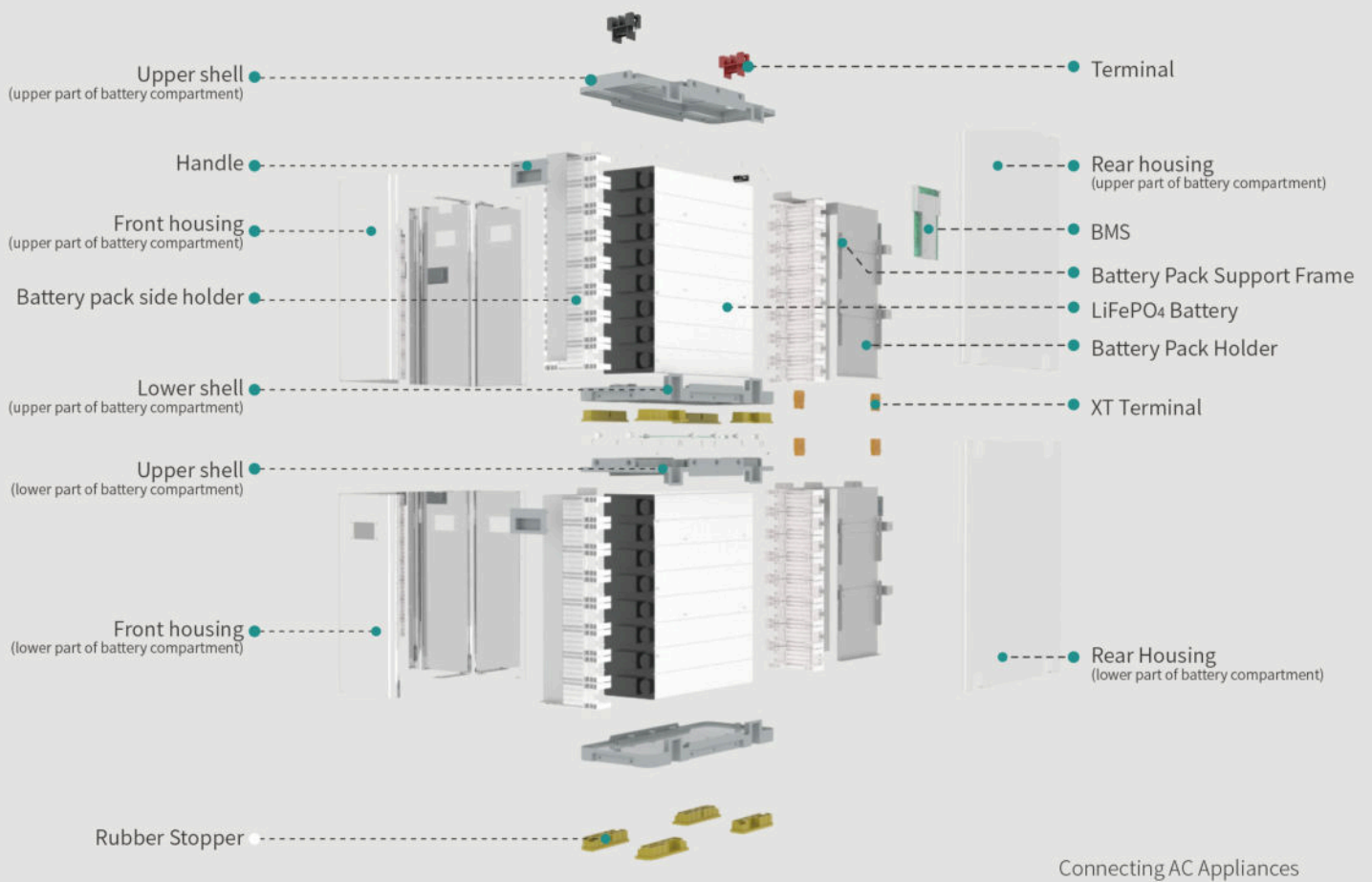


Rubber Feet Pad

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



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



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

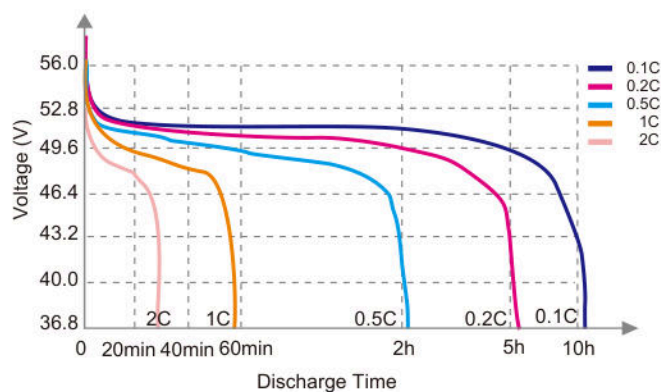
Free electricity.

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

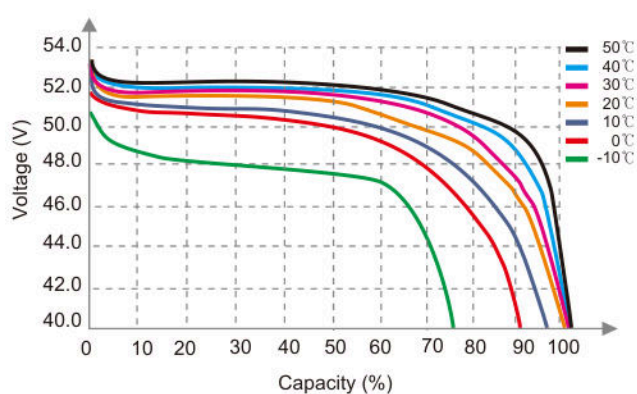


BATTERY SPECIFICATION

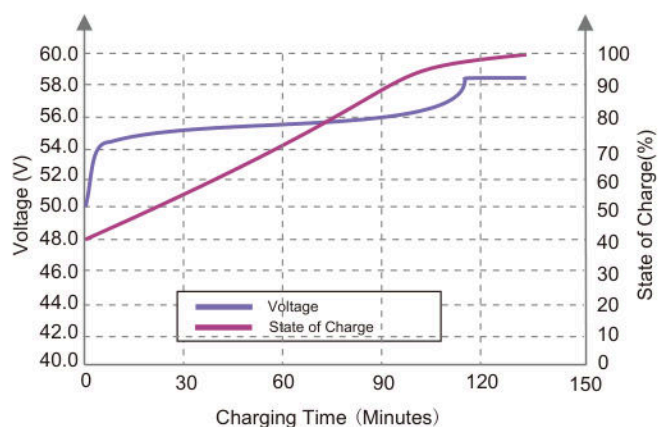
Different Rate Discharge Curve (25°C)



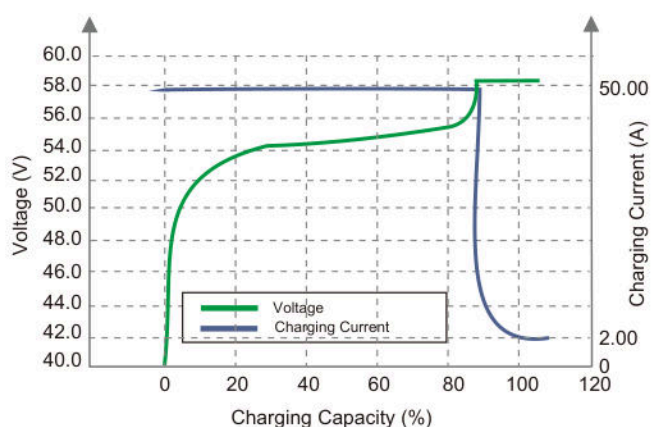
Different Temperature Discharge Curve (0.5C)



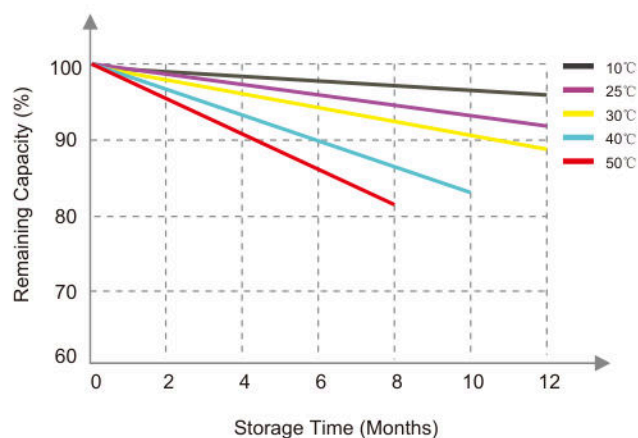
State of Charge Curve (0.5C, 25°C)

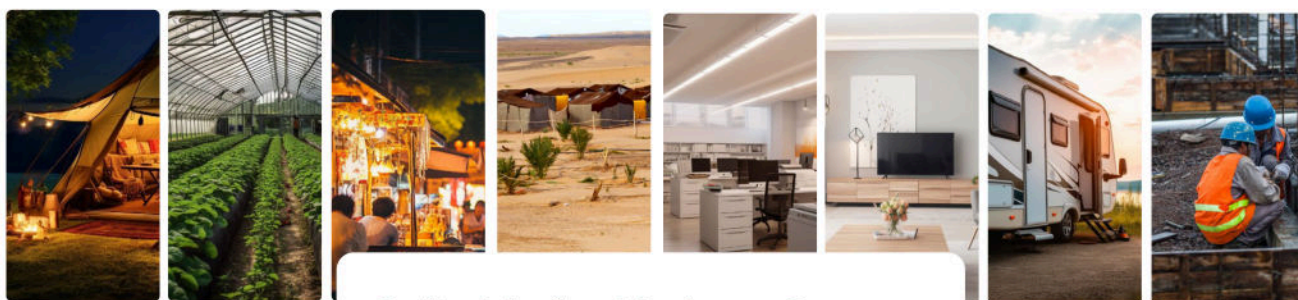


Charging Characteristics (0.5C, 25°C)



Different Temperature Self Discharge Curve





Suitable for Various Scenes

Friendly man-machine Combination

Smart and Reliable

Scalable and Flexible