Blue Carbon



PV ENERGY STORAGE SYSTEM

$LiFePO_4$ Battery Pack

BCT-V-48-200

48V-200Ah

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.

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Photovoltaic Generation-Storage-Application System Supplier

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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.

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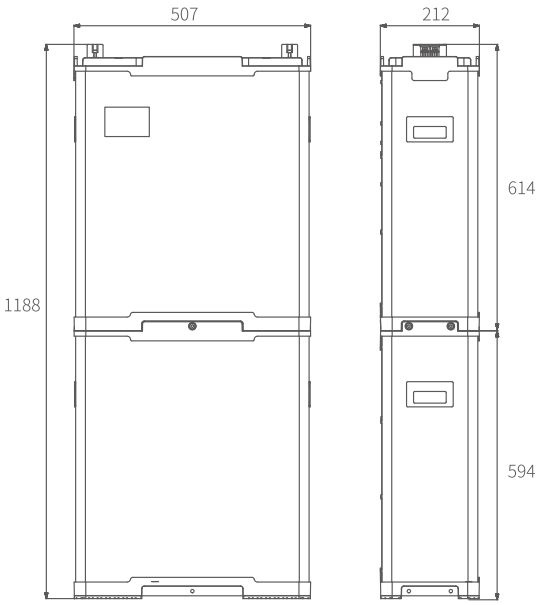
Technical Parameters

Model: BCT-V-48-200

Model	BCT-V-48-200	
Basic Specifications	Nominal Capacity	200Ah
	Nominal Voltage	48V(51.2V)
	Electricity(kWh)	10.24kWh
Input	Full charge Voltage	58.4V
	Maximum Charging Voltage	60V
	Input Voltage Range	58V-60V
	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	44V-46V
	Over-Discharge Delay Protection	1000ms
	Short Circuit Protection Delay	300us
	Short Circuit Protection Recovery	Disconnect load
	Instant Start Current	300A
	Instant Start Current Time	10S

Battery	Cell Type	$LiFePO_4$ 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
	Warranty	5 years
	Product Size	1188±2mm×507±2mm×212±2mm
	Packing Size	668±2mm×605±2mm×678±2mm

PRODUCT SIZE



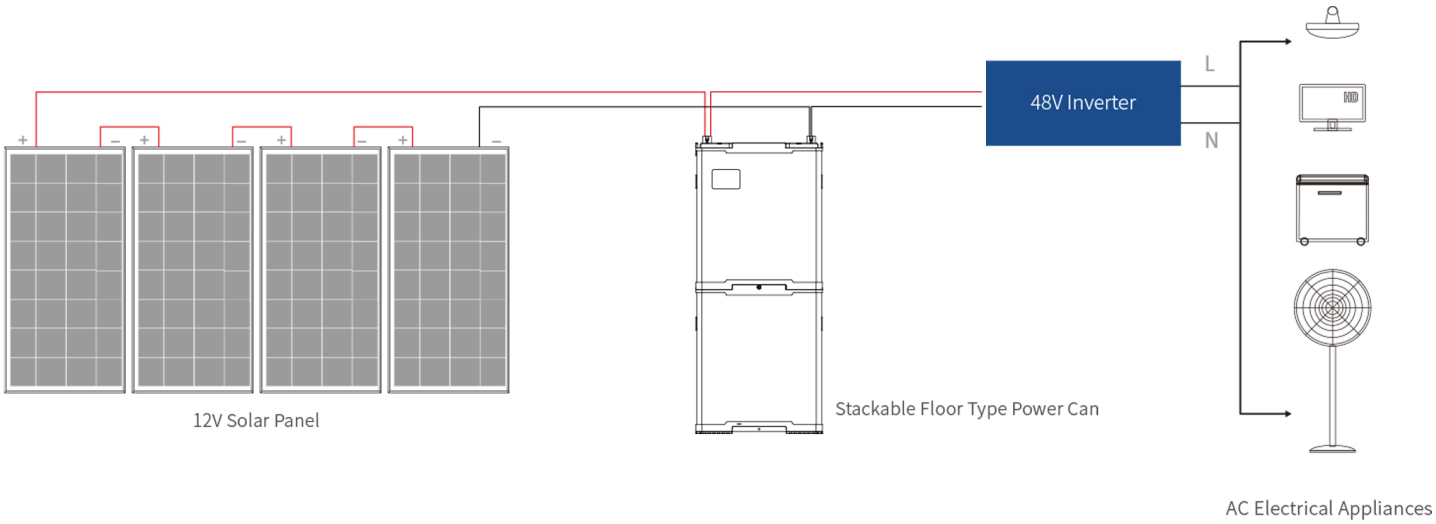
Unit: mm

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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



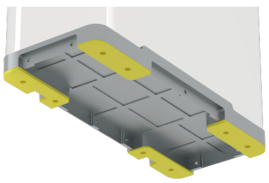
Split-type building block design

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



Rubber Feet Pad

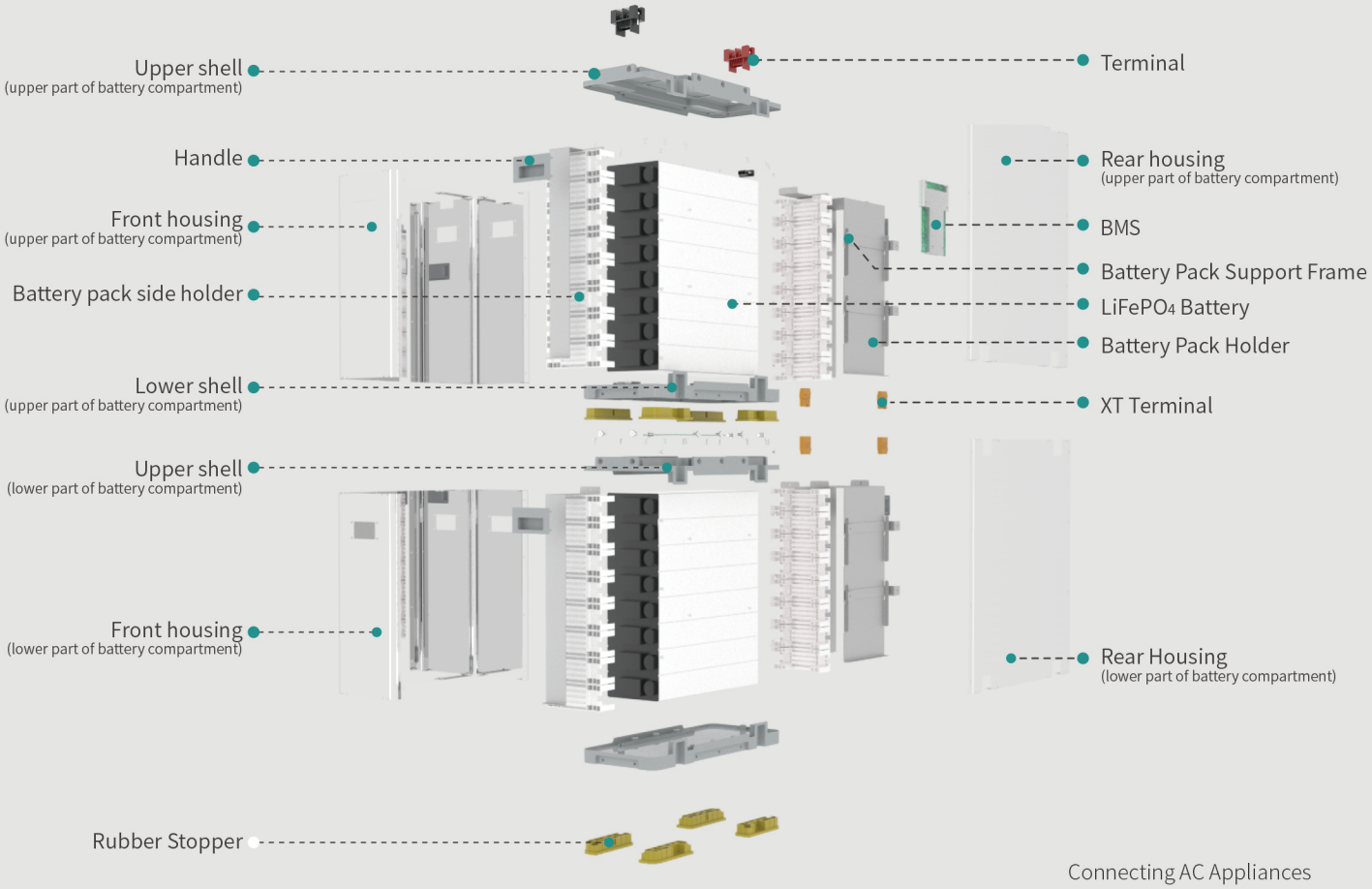
The bottom of battery is equipped with rubber feet pad to increase safety and play roles of shock-proof buffer, anti-static, electrical insulation and so on.



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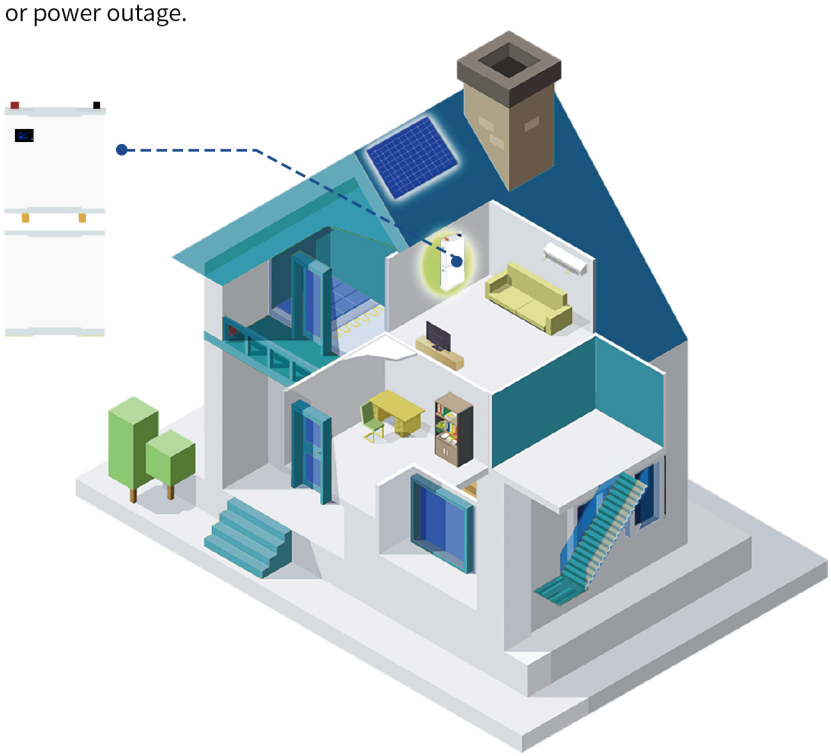
Store your electric energy to cope with the evening peak or power outage.

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.

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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.



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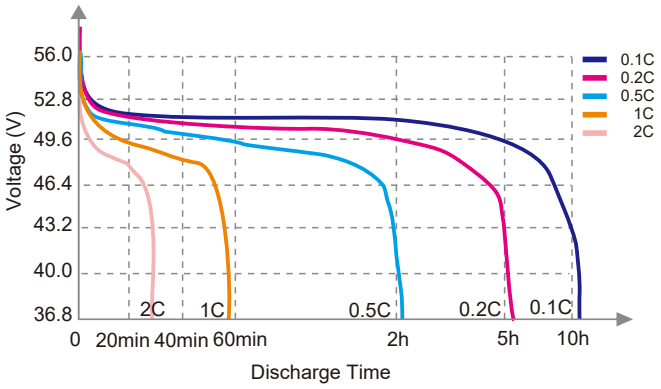
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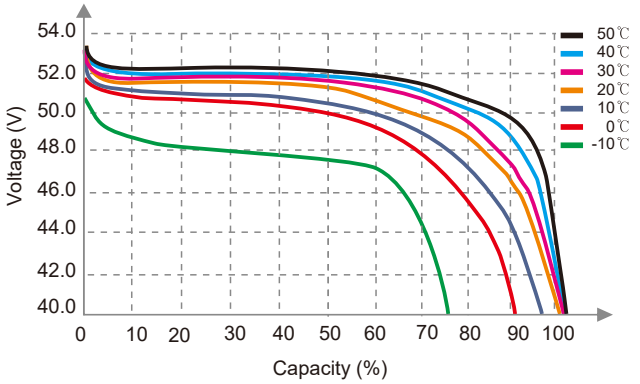
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BATTERY SPECIFICATION

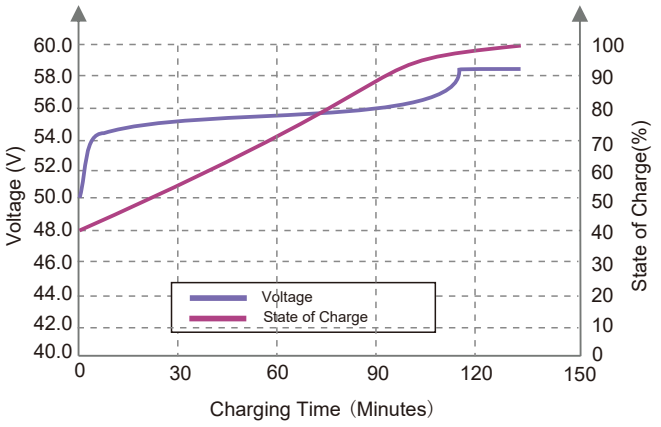
Different Rate Discharge Curve (25℃)



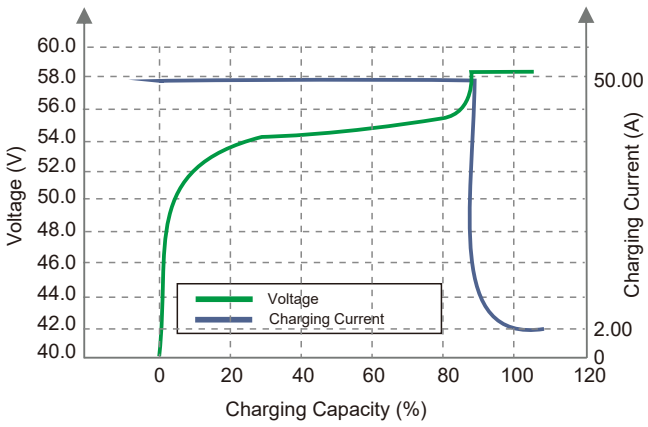
Different Temperature Discharge Curve (0.5C)



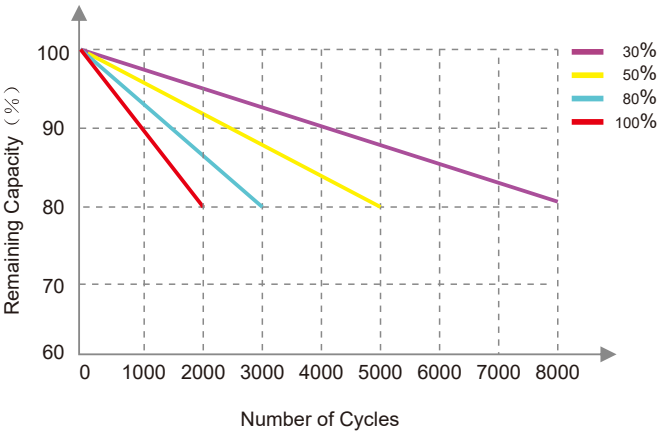
State of Charge Curve (0.5C, 25℃)



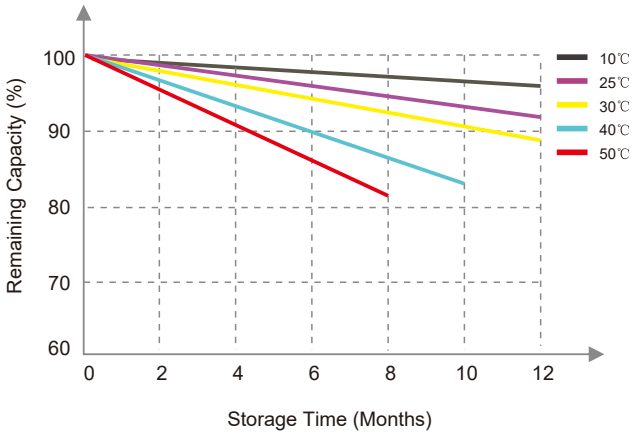
Charging Characteristics (0.5C, 25℃)



Different DOD Discharge Cycle Life Curve(1C）



Different Temperature Self Discharge Curve



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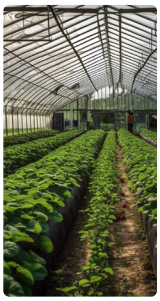
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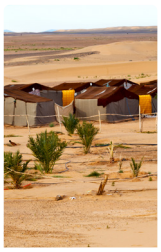
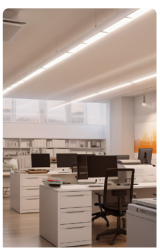
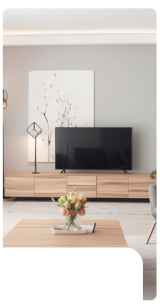


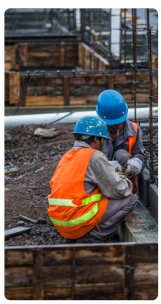
10.24kWh Stackable Floor Type Power Can LiFePO$_4$ Battery Pack

System Configuration

10.24kWh LiFePO$_4$ Battery Pack
Solar Panel
Solar Controller



Suitable for Various Scenes

Friendly man-machine Combination

Smart and Reliable

Scalable and Flexible

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