

LITHIUM ION BATTERIES

Model: BCT-T-48-100

5kWh

48V/100Ah



Household appliances

Free electricity



Clean energy

Using sunlight for clean energy charging, it can supply power to household appliances.



Storing energy

Energy storage batteries realize electricity freedom for consumption in areas with no or insufficient electricity.



Perfect services

Provide high efficiency service solutions



No fear of low temperatures

High and low temperature resistance, maintenance free



Safe and reliable

Intelligent protection, comprehensive worry free, guarantee of stability



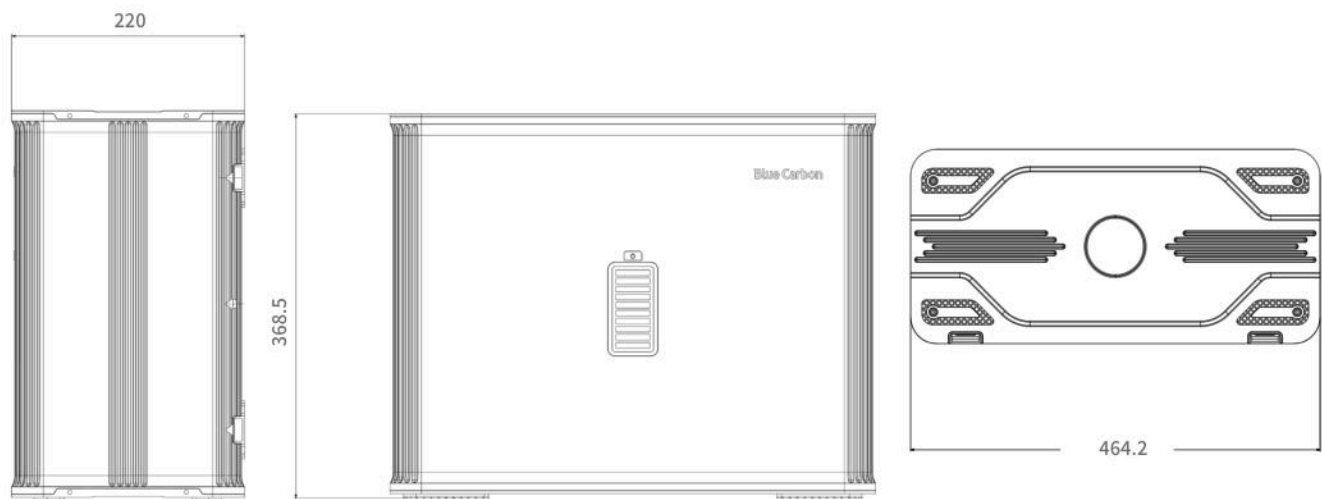
- In areas without electricity, it can be charged by solar panels during the day, its stored electricity can be used at night to provide electricity for lighting or other appliances;
- In areas where the electricity price is high, this product can be used to store electricity at valley hours for the use of electricity at peak hours.
- Easy to install; energy-saving and environmentally friendly; can reduce the electricity costs; long service life.

Product Display

- Unlimited Parallel Connection



Technical Parameters



Unit:mm

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	LiFePO4 Battery/LFP
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Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
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Operating Temperature Range	-15°C-60°C
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Recommended Temperature Range	10°C-40°C
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Storage Humidity	≤75% RH
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Atmospheric Pressure	Below the elevation of 5000m
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Self-Discharge (25°C)	<3%/Month
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Depth of Discharge	>80%
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C-rate Discharge	≤1C
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Cycle Life	> 6000 times (< 0.5C)
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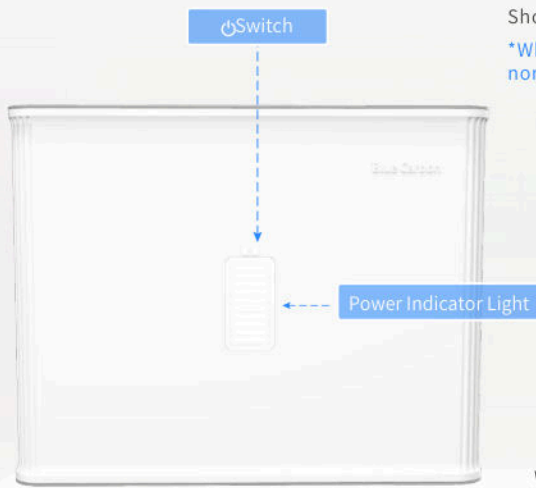
Other

Product Size	464.2(±2) ×368.5(±2)×220(±2)mm
Weight	57.65kg

Product Advantages 1

Press and hold for 3 seconds to turn on the device, and the power indicator light will turn on before you can start working; press and hold for 3 seconds to turn off the device, and the indicator light will turn off before the device turns off.

Short press to switch the lighting mode to high brightness/off/normal brightness;
 *When the high brightness mode lasts for five minutes, it will automatically switch to normal brightness



The diagram shows a rectangular device with a 'Switch' button at the top and a 'Power Indicator Light' on the front. Below the device, three battery status icons are shown: a white battery icon for 30-100%, a red battery icon for 0-30%, and a battery icon with horizontal bars for charging status.

30-100%
When the battery level is above 30%, the battery indicator light turns **white**.

0-30%
When the battery level is below 30%, the battery indicator light turns **red**.

Charging status
When the charging reaches a certain power level, the power indicator light of that level **flashes white**, indicating the current power level.



Binding post

Insulated flame retardant, fast and efficient.



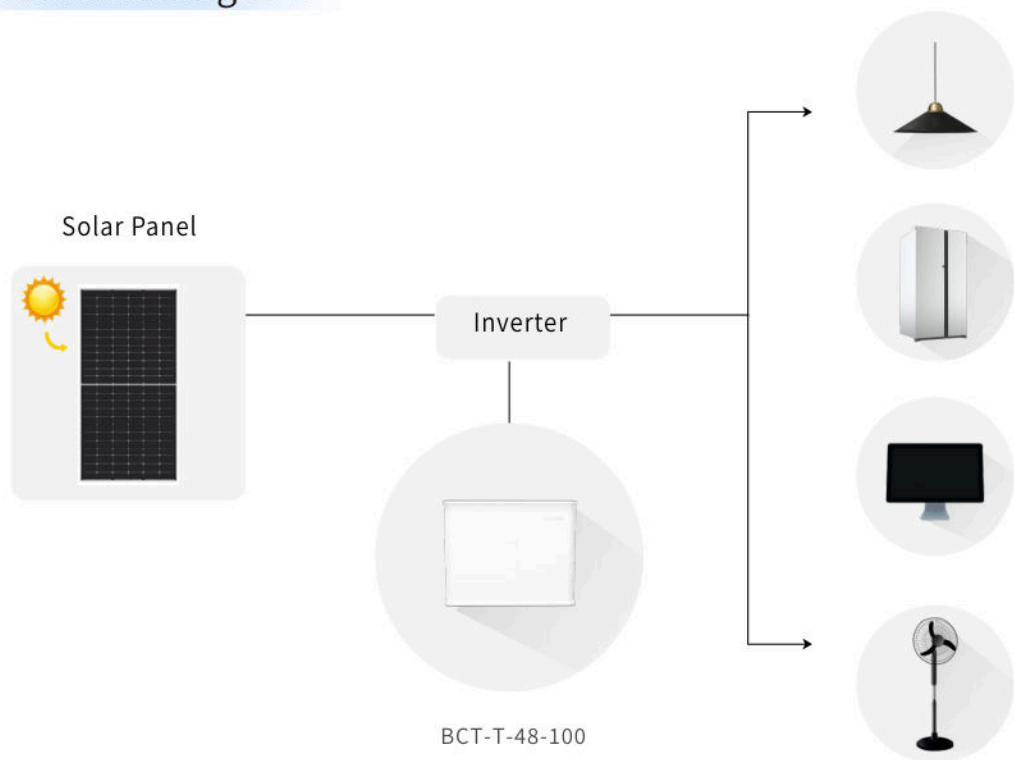
High quality aluminium magnesium alloy

Anti-corrosion, substantial, durable, artistic, practical.

LiFePO₄ battery

Stable discharge, long cycle life, safe and environmental protection, high safety performance.

Product Advantages 2




Charge Overvoltage Protection


Charge Overcurrent Protection


Short Circuit Protection


Over Temperature Protection



This energy storage system stores electricity generated by solar panels, serving as backup or emergency power. At night or during power outages, it can use the stored energy to power electrical appliances, ensuring continuous operation of critical loads and avoiding the inconvenience caused by blackouts.

Application Scenario

