



**SSE**<sup>®</sup>  
Sonikara Solar Electro

Blue Carbon, Photovoltaic Generation-Storage-Application System Supplier



# LITHIUM ION BATTERIES

**PV ENERGY STORAGE SYSTEM**

**Model: BCT-T-48-100**



**5kWh**

**48V/100Ah**



## Household appliances

Free electricity



## Perfect services

Provide high efficiency service solutions



## Clean energy

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



## No fear of low temperatures

High and low temperature resistance, maintenance free



## Storing energy

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



## Safe and reliable

Intelligent protection, comprehensive worry free, guarantee of stability



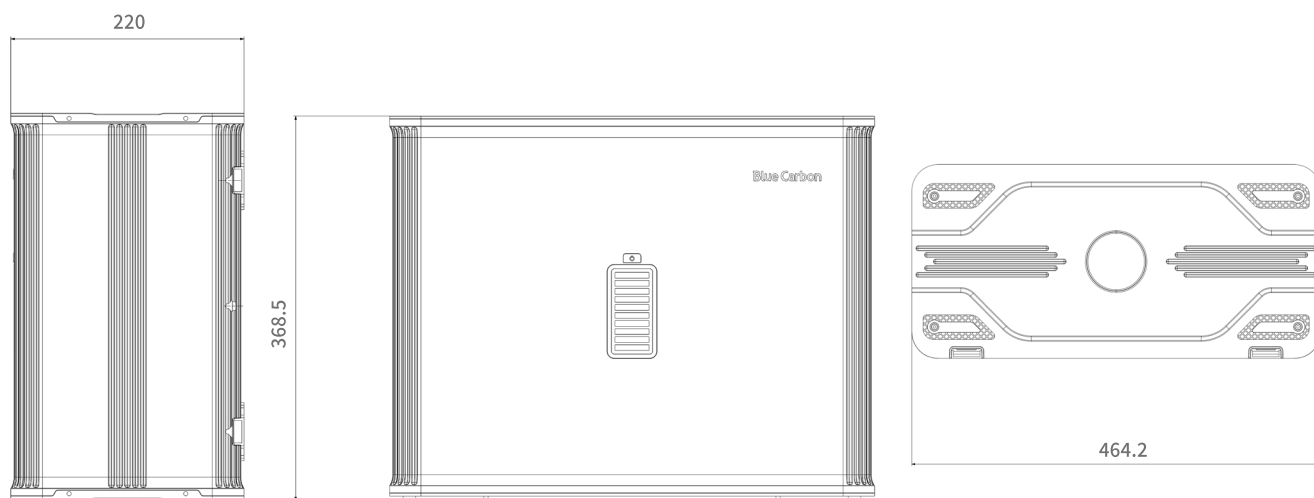
- In areas without electricity, it can be charged by solar panels during the day, its stored electricity can be used at night to provide electricity for lighting or other appliances;
- In areas where the electricity price is high, this product can be used to store electricity at valley hours for the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

## Product Display

- Can be used in parallel



## Product Configuration



Product Dimensions

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	50A
Maximum Solar Panel Input Current	50A
Overcharge Delay Protection	1000ms

#### Output

Continuously Use Output Current	50A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	0.3ms
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	200A
Instant Start Current Time	5000ms

#### Battery

Cell Type	LiFePO <sub>4</sub> 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	<0.8C
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Cycle Life	> 6000 times (< 0.5C)
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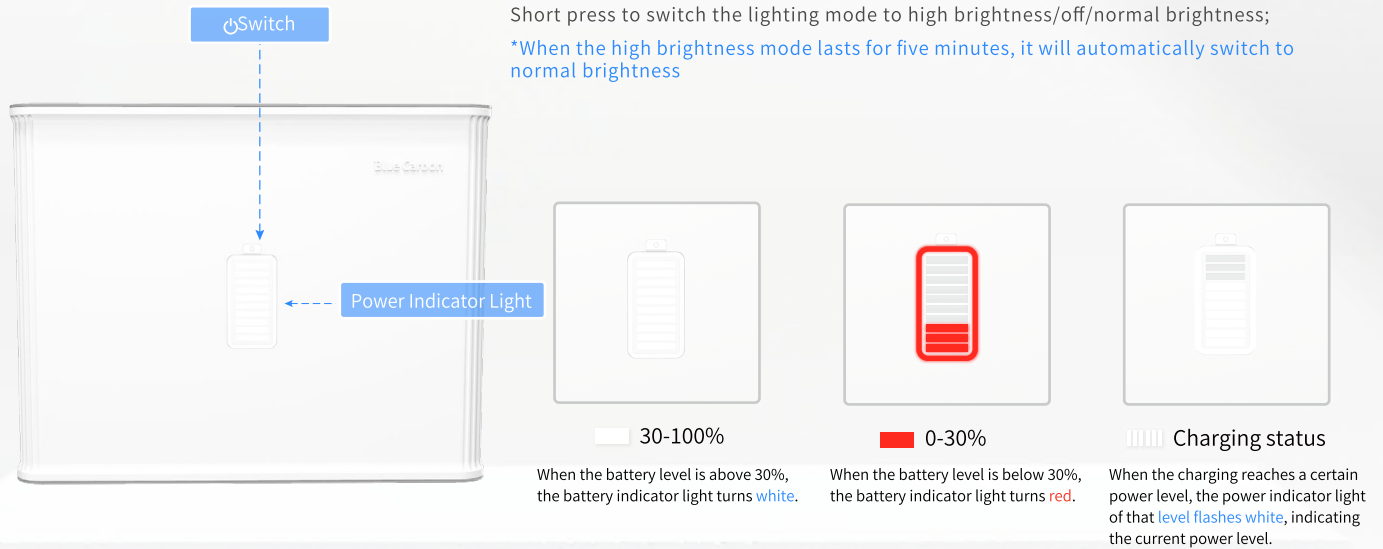
#### Other

Product Size	464.2(±2) × 368.5(±2) × 220(±2)mm
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## 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



### Binding post

Insulated flame retardant, fast and efficient.



### High quality aluminium magnesium alloy

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

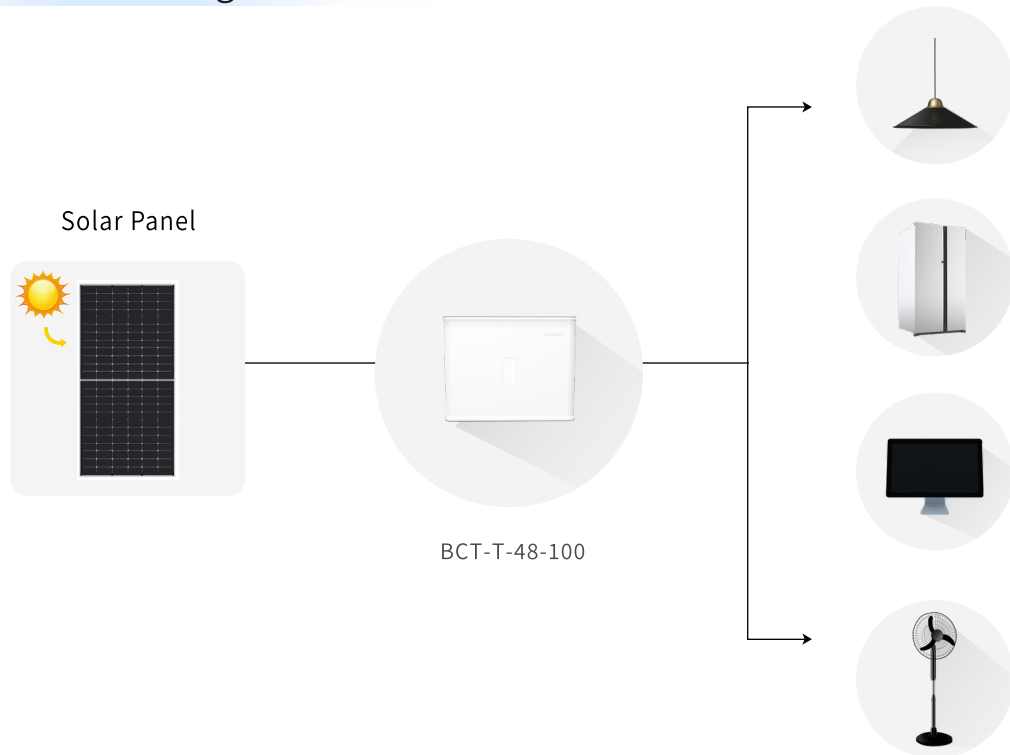


### LiFePO<sub>4</sub> battery

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



## Product advantages 2



Charging Overvoltage Protection



Charging Overcurrent Protection



Short Circuit Protection



Temperature Protection



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.

## Application Scenario

