

48V-100Ah

5.12kWh

Name:Lithium Battery

Model: BCT-V-48-100

Application Scenarios:

Non-main grid areas: For night lighting.

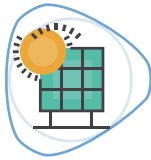
Areas with expensive urban grid electricity: Valley charge and peak discharge save 30%+.

Areas with frequent power outages: Serve as an uninterruptible power supply (UPS) to prevent data loss.

Applicable scenarios: Commercial, industrial, residential, outdoor lighting, camping and travel, farming, and night market stalls, etc.



Multi-Angle Display



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.



Household Appliances

Free electricity

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.



Technical Parameters

Model: BCT-V-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

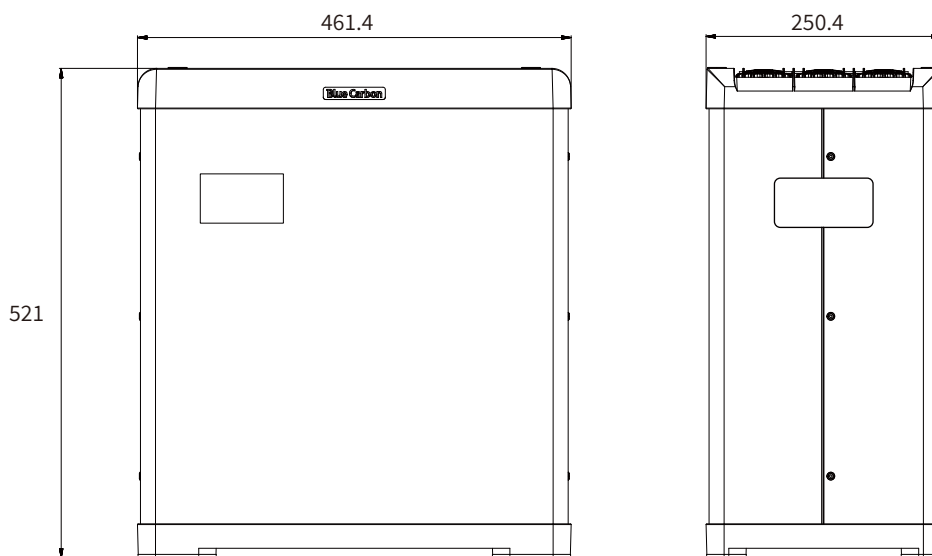
Continuously Use Output Current	80A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	85A
Instant Start Current Time	10S

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (<0.5C)

Other

Package Size	550(±2)×333(±2)×601(±2)mm
Certification Standards	UN38.3/CE/MSDS



Product size: (mm)

Product Details

6 KINDS OF SAFETY PROTECTION



Charge Overvoltage Protection



Discharge Undervoltage Protection



Charge Overcurrent Protection



Discharge Overcurrent Protection



Short Circuit Protection



Over Temperature Protection



LiFePO₄ Battery Pack

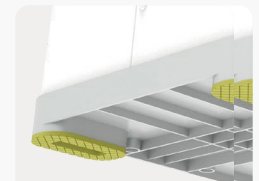
Stable discharge, Long cycle life, Safe and environmental protection, High safety performance

LED Display

Observe the power usage at any time.



Function Introduction



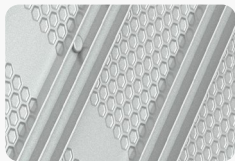
Insulated Rubber Pad

The bottom of the battery is equipped with rubber foot pads to increase safety and serve as shock-proof buffers, anti-static, electrical insulation, and so on.



Binding Post

Insulated flame retardant
Fast and efficient

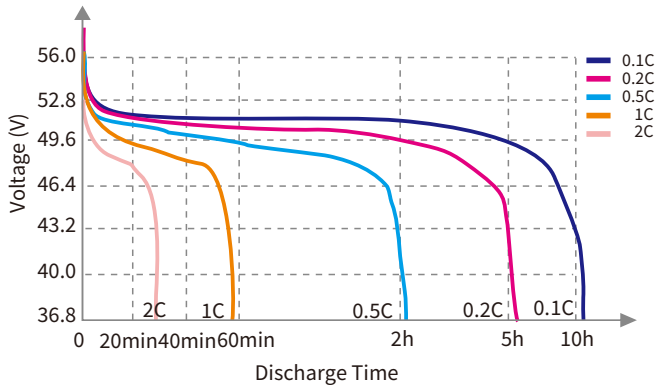


High Quality Aluminium Magnesium Alloy

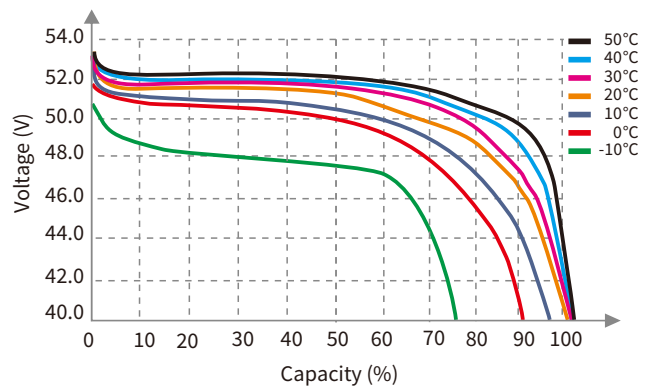
Anti-corrosion, Substantial, Durable,
Artistic, Practical

Battery Specification

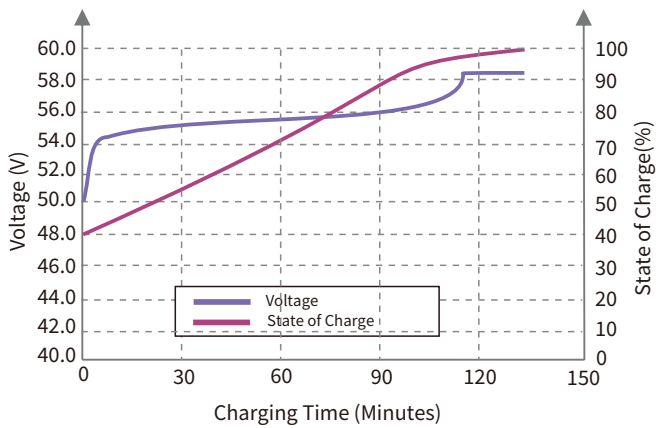
Different Rate Discharge Curve (25°C)



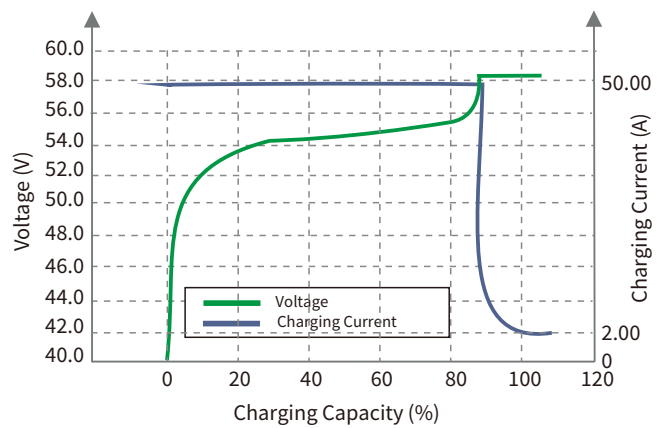
Different Temperature Discharge Curve (0.5C)



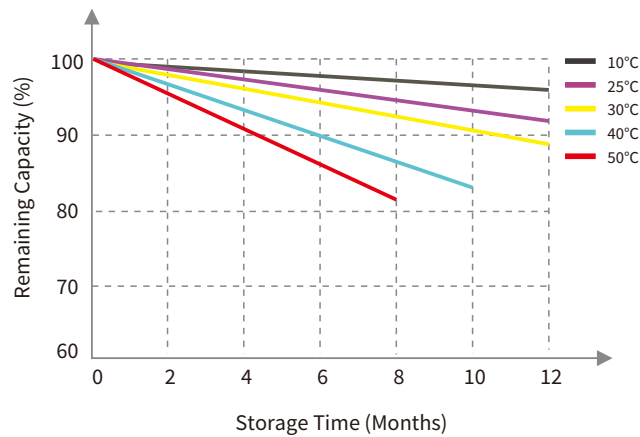
State of Charge Curve (0.5C, 25°C)



Charging Characteristics (0.5C, 25°C)



Different Temperature Self Discharge Curve



Usage Scenarios

