

LITHIUM ION BATTERIES

PV ENERGY STORAGE SYSTEM

BCT-V-24-100



BCT

CONFIGURATION | TECHNICAL PARAMETER

BCT-V-24-100



Basic Specifications

Cell Type	LiFePO ₄ Battery/LFP
Nominal Capacity	100Ah
Nominal Voltage	24V(25.6V)
Electricity (kWh)	2.56kWh

Input

Full Charge Voltage	29.2V
Input Voltage Range	28V-30V
Maximum Solar Panel Input Current	100A
Rshoot Delay Protection	1000ms

Output

Continuously Use Output Current	100A
Discharge Cut-Off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect Load
Instant Start Current	400A

Battery

Storage Temperature Range	Short-Term -20-40℃ (Within 1 Month) Long-Term 10-35℃ (Within 1 Year)
Operating Temperature Range	-15℃-60℃
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
Product Size	462(±2)×250(±2)×318(±2)mm
Package Size	528(±2)×315(±2)×385(±2)mm



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



More Available Power



Flexible Investment



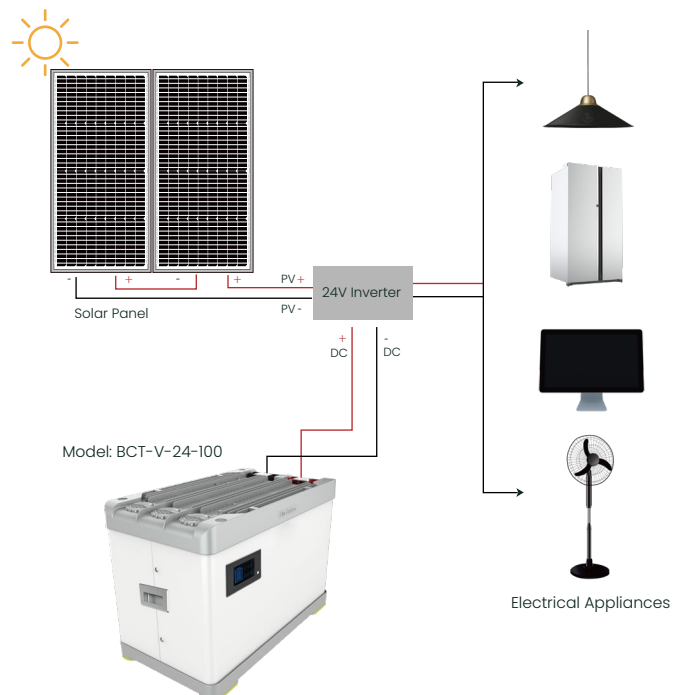
Simple Installation



Safe & Reliable

matters need attention:

- It is strictly forbidden to install near bed-room 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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Office Location

Building A, International Fortune Center, Rizhao City,
Shandong Province, China



<https://www.bluecarbontech.com.cn/en/>
<https://bluecarbon.solar>



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PRODUCT ADVANTAGES

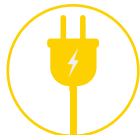
SMART BATTERY MANAGEMENT SYSTEM



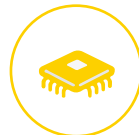
Over-charge
Protection



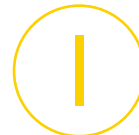
Over-discharge
Protection



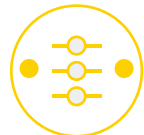
Over-current
Protection



High quality
chip

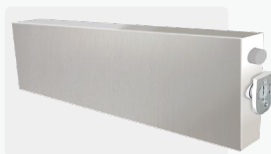


Short circuit
protection



Temperature
protection

Product Details



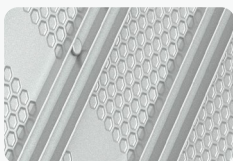
LiFePO₄ Battery

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



Binding Post

Insulated flame retardant, fast and efficient.



High Quality Aluminium Magnesium Alloy

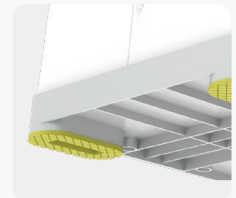
Anti-corrosion, substantial, durable, artistic, practical.

LCD display

Observe the power usage at any time.



Function Introduction



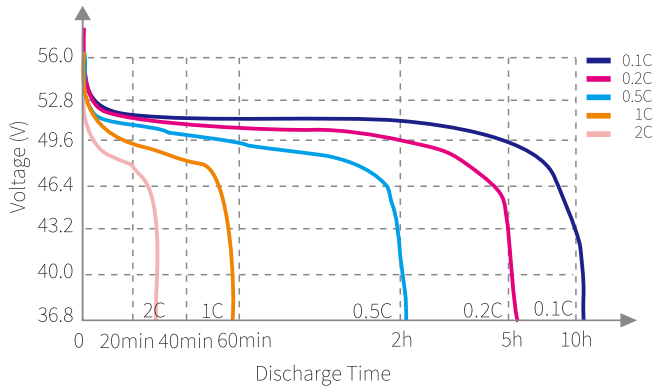
Insulated Rubber Pad

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.

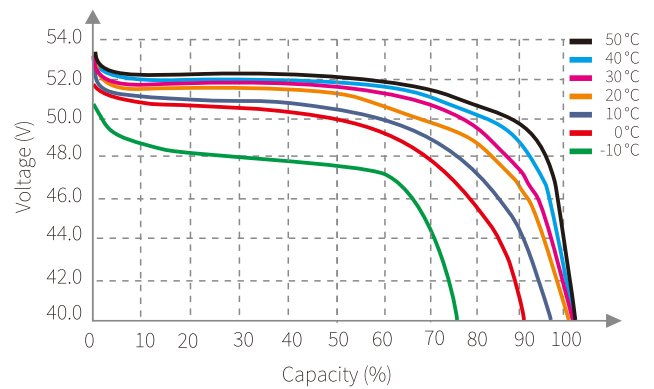
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BATTERY SPECIFICATION

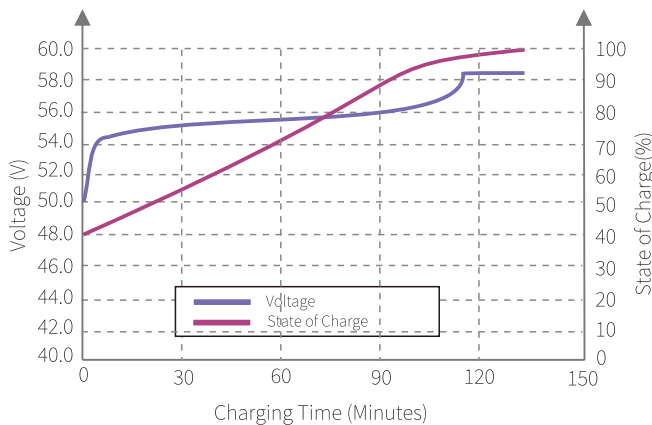
Different Rate Discharge Curve (25°C)



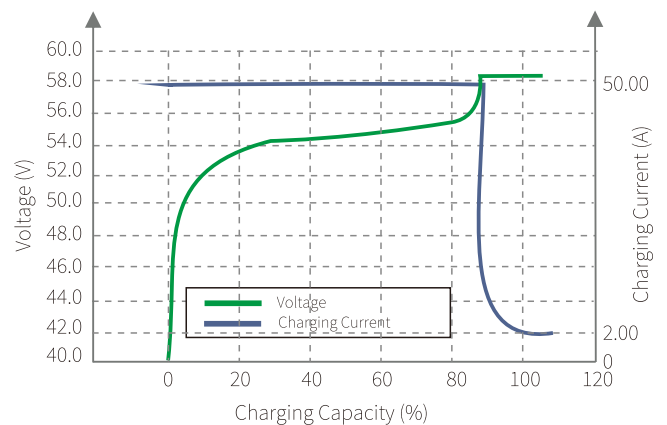
Different Temperature Discharge Curve (0.5C)



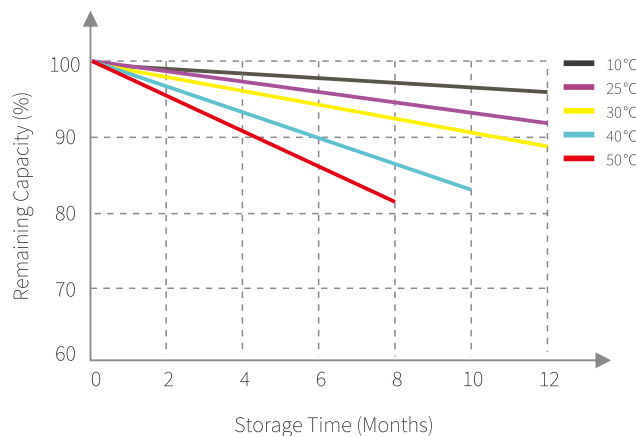
State of Charge Curve (0.5C, 25°C)



Charging Characteristics (0.5C, 25°C)



Different Temperature Self Discharge Curve



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Suitable for Various Scenes



Friendly man-machine Combination
Smart and Reliable

The battery pack is applicable to commercial electricity, industrial electricity, home electricity, etc.

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