



Blue Carbon
蓝晶易碳

Smart BMS

24V LiFePO₄ Battery Pack

Stackable Floor Type Power Can

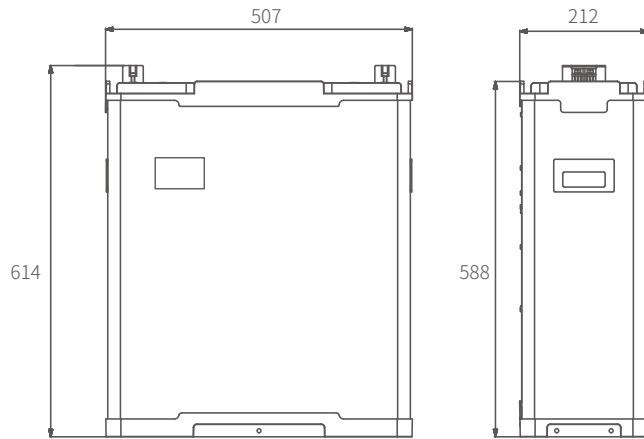
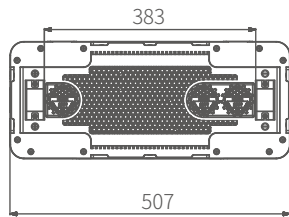


Blue Carbon, no need electricity bill at all.



BCT

CONFIGURATION | TECHNICAL PARAMETER



Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	24V(25.6V)
Electricity(kWh)	5.12kWh/6.4kWh/7.68kWh

Input

Full Charge Voltage	28.8V-30V
Maximum Charging Voltage	50V
Input Voltage Range	30V-50V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
Rshoot Delay Protection	1000ms

Output

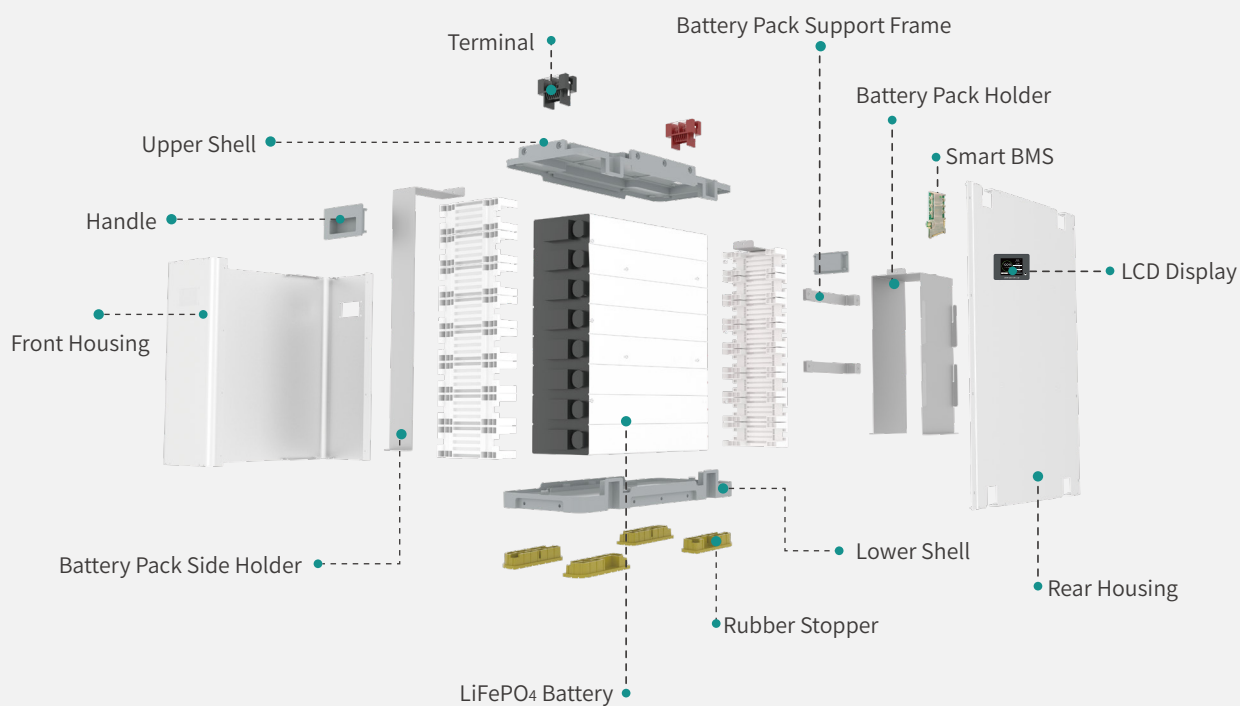
Continuously Use Output Current	100A
Discharge Cut-Off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect Load

Battery

Cell Type	LiFePO4 Battery/LFP
Storage Temperature Range Short-Term	-20°C-40°C(Within 1 Month)
Storage Temperature Range 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 5000 Above Sea Level
Self-Discharge (25°)	<3%/Month
Depth Of Discharge	>80%
C-Rate Discharge	<0.8C
Cycle Life	>6000次(<0.5C)

Other

Certification Standards	UN38.3/CE/MSDS/DGM
Warranty	5 Years
Product Size	614±2×507±2×212±2mm



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



More Available Power



Flexible Investment



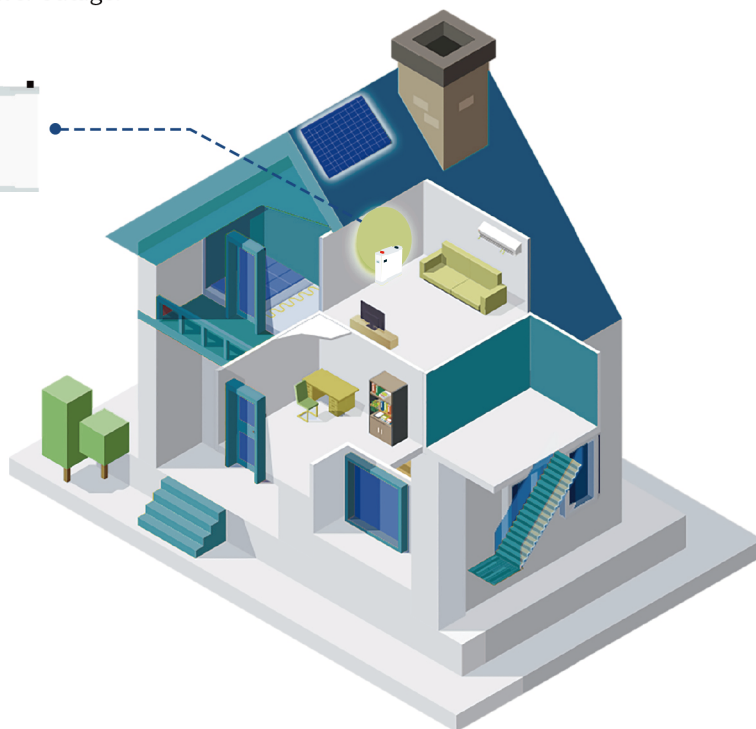
Simple Installation



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.





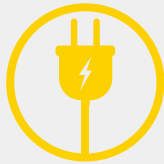
SMART BATTERY MANAGEMENT SYSTEM



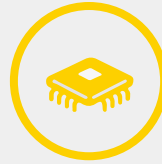
Over-charge Protection



Over-discharge Protection



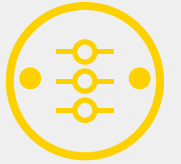
Over-current Protection



High quality chip



Short circuit protection



Temperature protection

Product Details

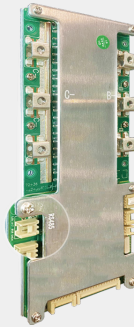
LiFePO4 battery

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



Smart BMS (RS485)

Protect the battery, Prevent battery damage, Extend battery life.



Imported components	Comply with CE standard safety certification
Separate driver modules	Use insulation materials

LCD display

Observe the power usage at any time.

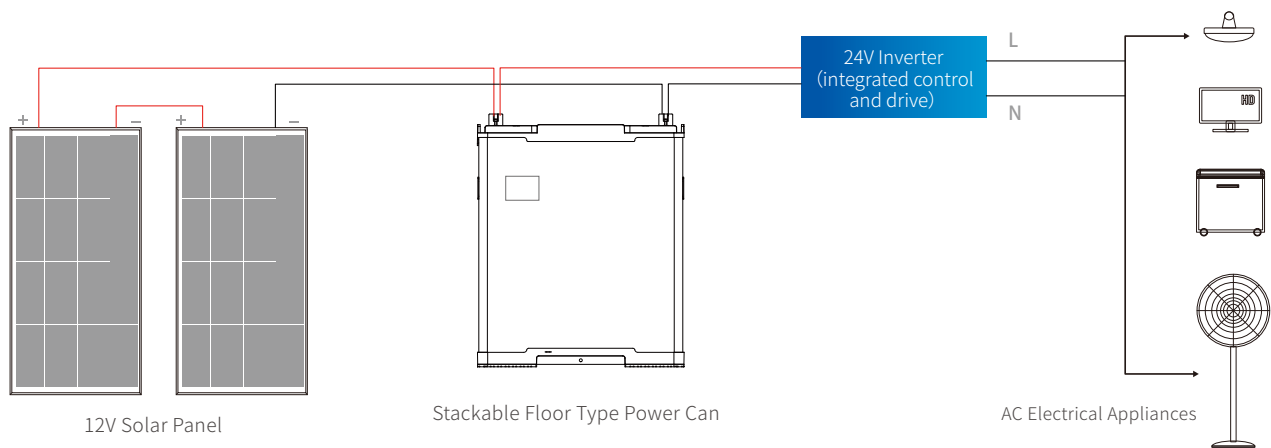


Function Introduction



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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 design, 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



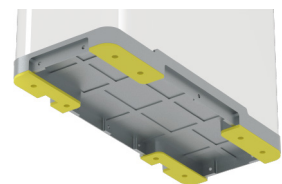
Split-type building block design

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.



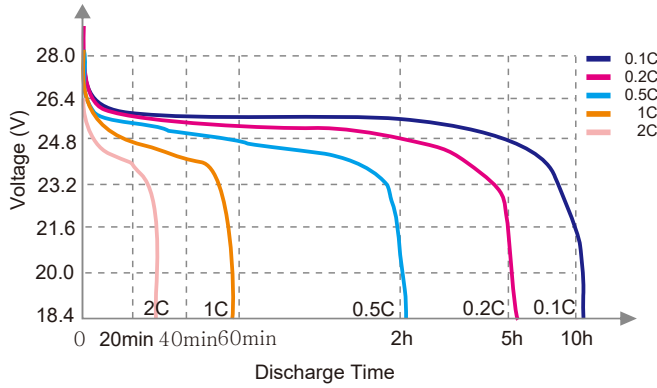
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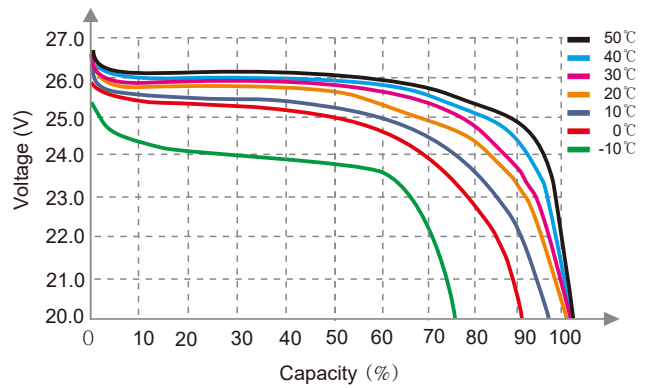
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Battery Specification

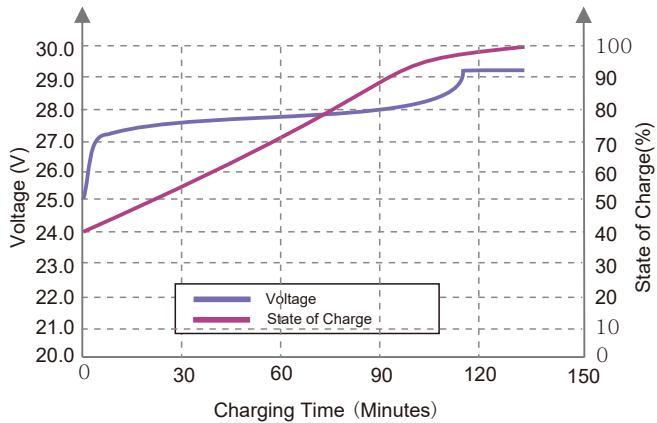
Different Rate Discharge Curve (25°C)



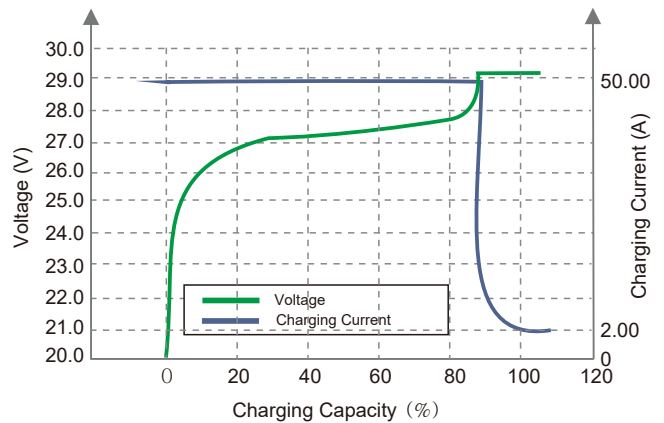
Different Temperature Discharge Curve (0.5C)



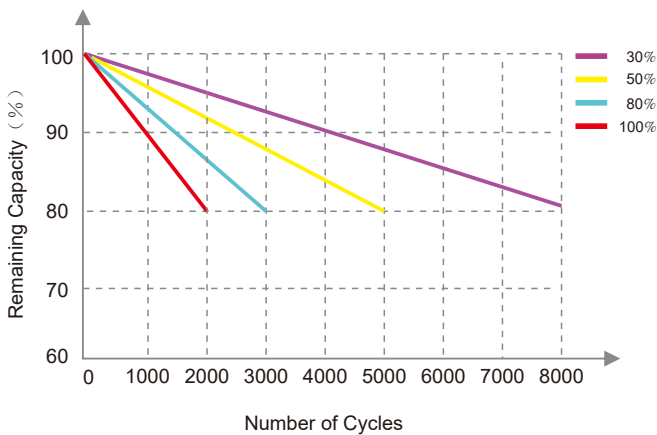
State of Charge Curve (0.5C, 25°C)



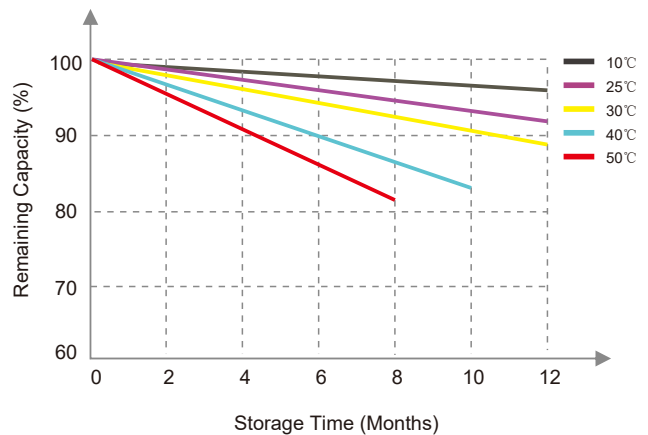
Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

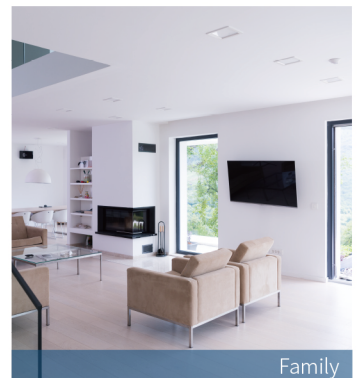
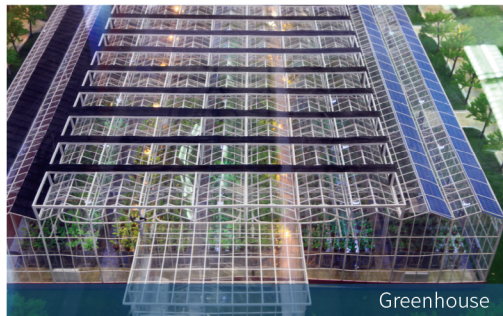
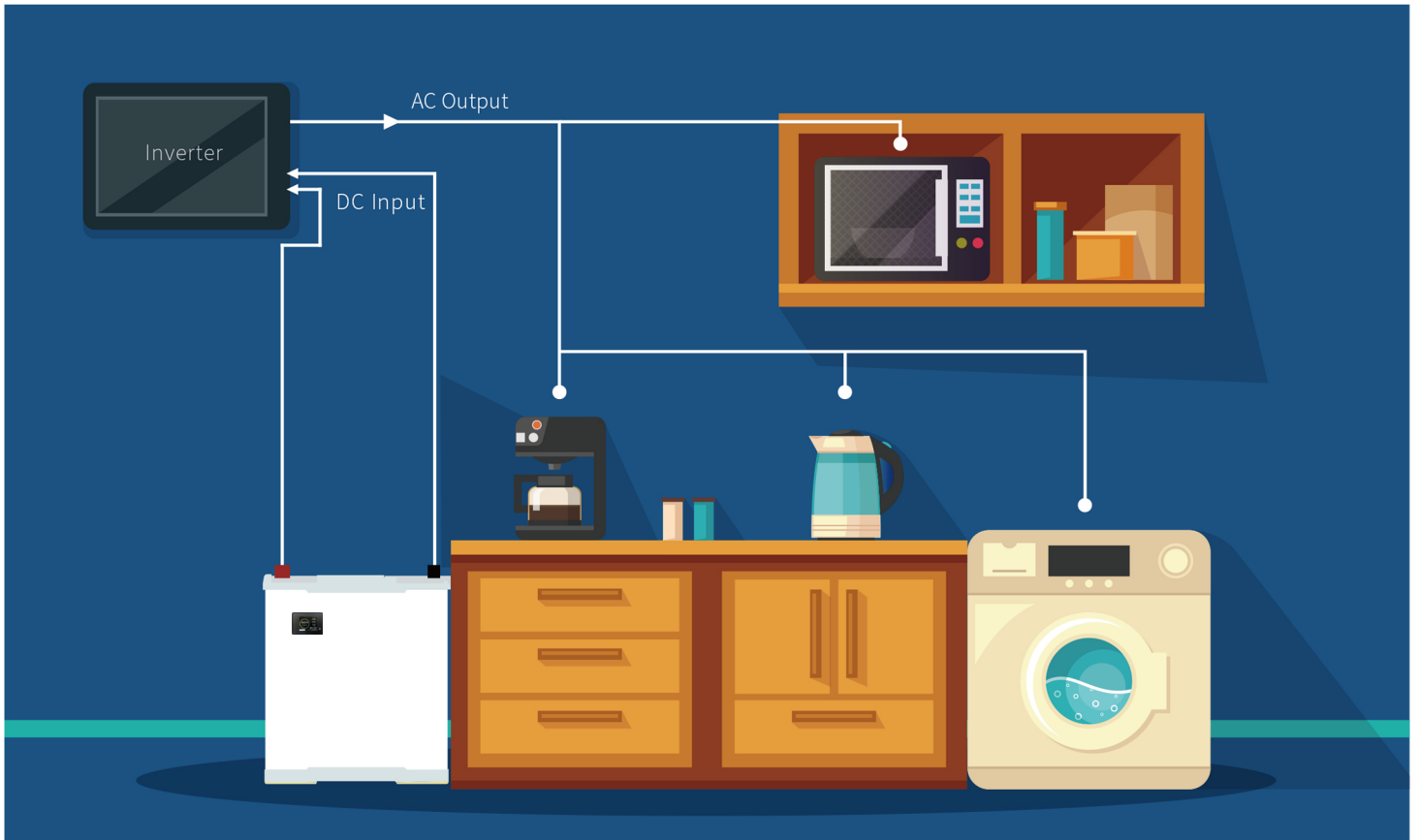




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SCENES TO BE USED





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APPLICATION CASE



6.4kWh

New Zealand

System Configuration

- Solar Panel
- Inverter
- 6.4kWh Energy Storage Battery



25.6kWh

Shandong, China

System Configuration

- Solar Panel
- Inverter
- 25.6kWh Energy Storage Battery



6.4kWh

Beijing, China

System Configuration

- Solar Panel
- Inverter
- 6.4kWh Energy Storage Battery



6.4kWh

Nigeria

System Configuration

- Solar Panel
- Inverter
- 6.4kWh Energy Storage Battery