

Smart BMS

LiFePO₄ Battery Pack

BCT

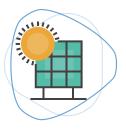
LiFePO₄ Battery Pack





Application Places

For no city power areas, the battery pack can be charged by solar panels and used for night lighting; For the areas that city power is expensive, the battery pack can be charged during the electricity valley value period, and used at the peak power period; For the areas which power off from time to time, the battery pack can be used as UPS, to avoid information loss caused by sudden power outage. The battery pack is applicable to commercial lighting, industrial lighting, home lighting, outdoor lighting, camping tourism, farming, planting, the night market stalls, etc.



Clean energy

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



Storing energy

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



Household appliances

Free electricity

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INSTRUCTIONS





Smart BMS



DC Output



Solar Panel Charging



Multiple Appliances

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.



Battery bracket





Main switch

Stainless steel push button switch, Protect the upgrade.

Smart BMS (RS485)

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





Binding post

Insulated flame retardant, fast and efficient.



LCD display

Observe the power usage at any time.



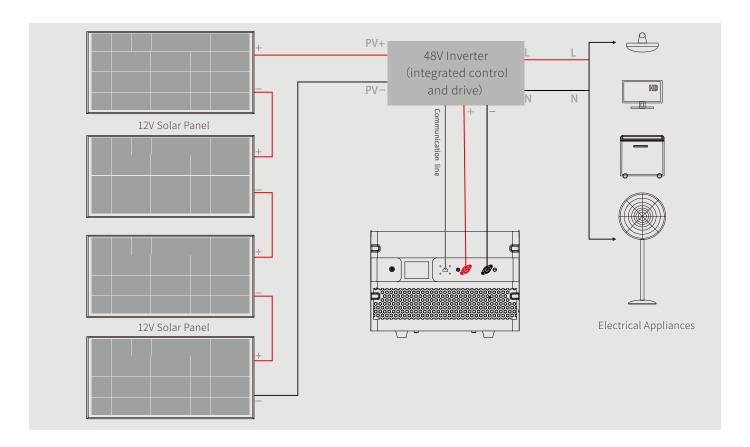
Communication port

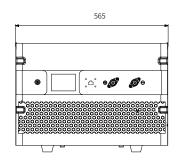


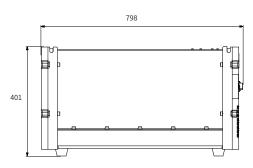


High quality aluminium magnesium alloy

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







Product size: (mm)

Advantages

- High quality aluminium magnesium alloy, anti-corrosion, substantial, durable, artistic, practical.
- 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 d esign, DC output, safe and reliable.
- Integrated packaging, safe and convenient to transport.

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Technical Parameters

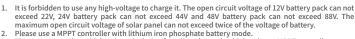
reclifical Parameters				
Model	SMART-BCT-UU 48-200 SMART-BCT-UU 48-250 SMART-BCT-UU 48-300			
Basic Specifications	Nominal Capacity		200Ah/250Ah/300Ah	
	Nominal Voltage		48V (51.2V)	
	Electricity (kWh)	10.24kWh	n/12.8kWh/15.36kWh	
Input	Full Charge Voltage		56V-60V	
	Maximum Charging Voltage		90V	
	Input Voltage Range		60V-100V	
	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		38V-48V	
	Over-Discharge Delay Protection		1000ms	
	Short Circuit Protection Delay		300us	
	Short Circuit Protection Recovery		Disconnect Load	
	Instant Start Current		300A	
	Instant Start Current Time		10S	

Battery	Cell Type	LiFePO4 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 5000 above sea level	
	Self-Discharge (25°C)	<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	
	Warranty	5 years	
	Communication	RS485	
	Product Size	798±2×565±2×401±2mm	
	Packing Size	903±2×671±2×451±2mm	

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Instructions





The output must have high-voltage isolation function when using high-voltage MPPT controller. When the source voltage of the charging terminal is higher than 88V, in order to prevent the failure of the

voltage conversion device in the middle and cause overcharging of the battery. The high-voltage circuit breaker with charging protection function must be connected between the charging controller and the

Dattery pack, maximum support 4 battery packs in series, the highest charging voltage of 4 battery packs in series is less than 88V, and the highest charging voltage of 2 battery packs in series is less than 44V. 24V battery pack, maximum support 2 battery packs in series, the highest charging voltage of 2 battery packs in series is less than 88V. 48V battery pack, it is forbidden to use in series. Ensure the batteries are discharged to empty condition or fully charged before connecting them in series. Ensure

the voltage of batteries are consistent before connecting the batteries in parallel. It is forbidden to connect the positive and negative poles reversely and short circuit the positive and negative poles of the battery pack; The overload is strictly prohibited.

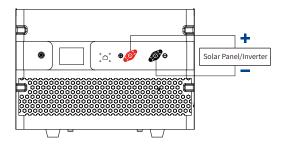
- The battery pack should not be used in severe vibration scenarios.

 It is strictly prohibited to put in water and clean the battery pack, and do not place the product in the outdoor exposed place for a long time to prevent rain or moisture.
- te is forbidden to use or place the battery at high temperature. If battery is used for a long time, the recommended optimal ambient temperature is 10-40°C.
- 10. The battery should not be placed in the room where any combustible gas or flammable items are stored, and should be used in a clean, dry and ventilated environment.

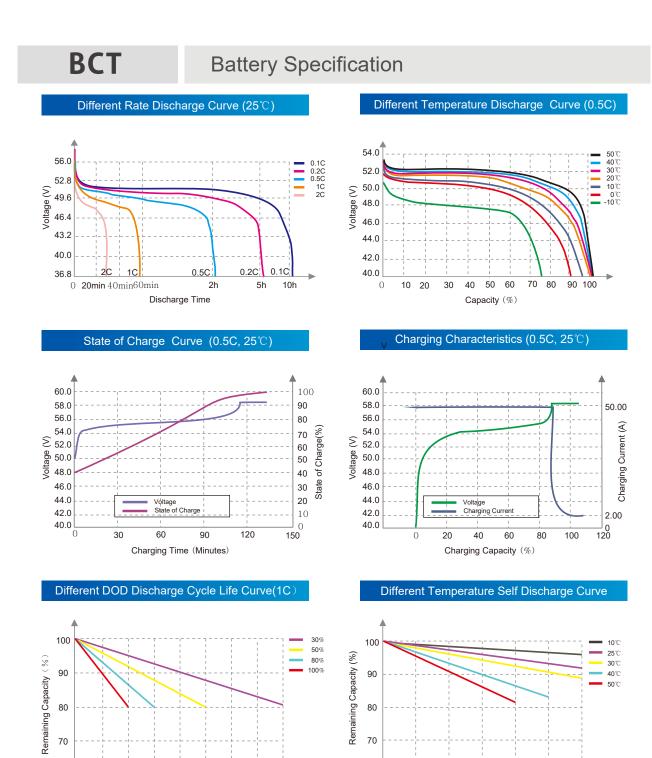
 11. It is strictly prohibited to knock, throw, reverse or trample on the battery pack. It is strictly prohibited to
- use the battery pack when the appearance is seriously damage (artificial knocking, scraping, falling from height, unauthorized disassembly of the products, etc.).

 12. It is strictly forbidden to dump or invert the product.

Please strictly following the above operating rules when using the battery pack.



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Storage Time (Months)

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1000 2000 3000 4000 5000 6000 7000 8000 Number of Cycles



Usage Scenarios







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Usage Scenarios











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