



Blue Carbon
蓝晶易碳



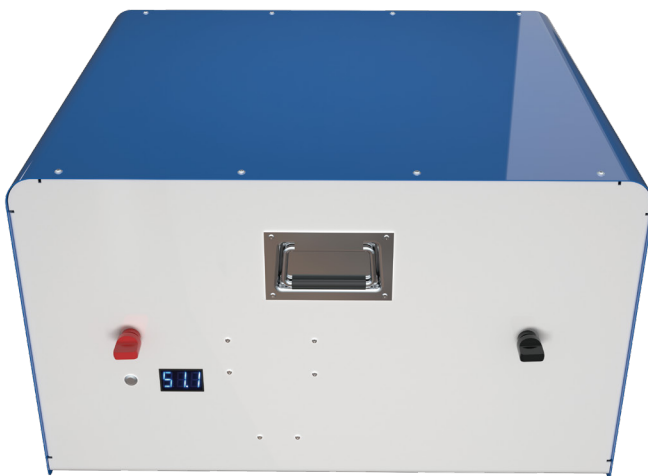
48V/200Ah

LiFePO₄ Battery Pack

Name: LITHIUM ION BATTERIES
Model: UU 48-200

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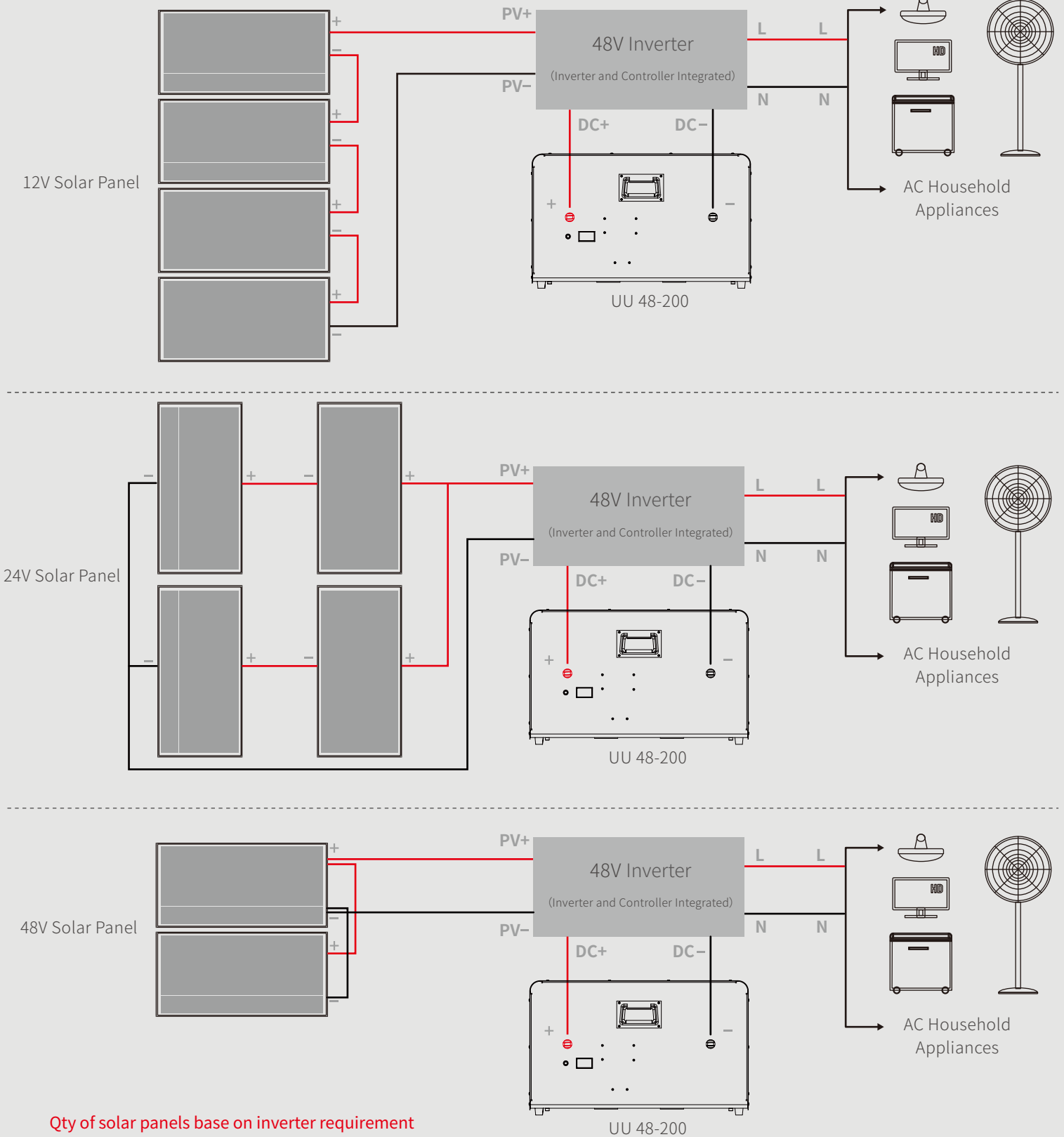
UU 48-200 LiFePO₄ Battery Pack



Application Places

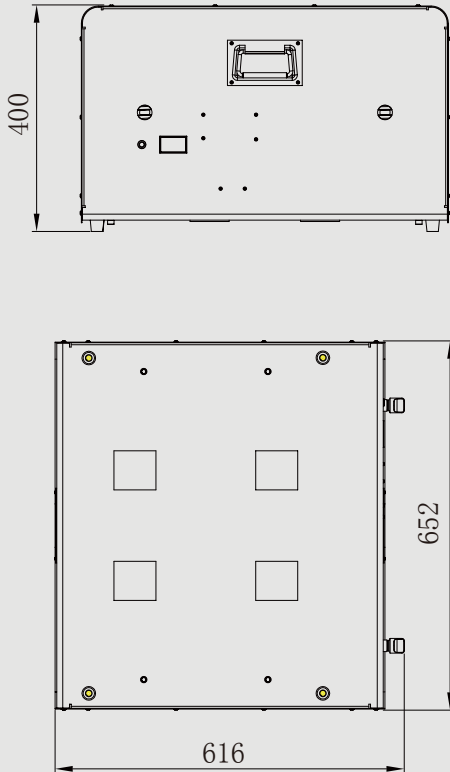
For no city power areas, the battery pack can be charged by solar panels and used for night lighting; For the areas that city power is expensive, the battery pack can be charged during the electricity valley value period, and used at the peak power period; For the areas which power off from time to time, 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.

Blue Carbon, no need electricity bill at all.





Product size : (mm)



Technical Parameters

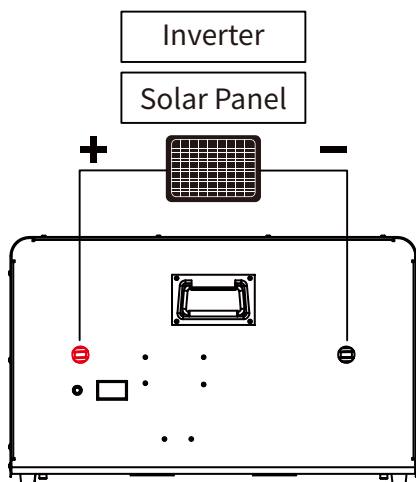
Model	UU 48-200		
Storage capacity	10240Wh		
Standard capacity	200Ah/51.2V		
Continuously use iutput current	100A	Standard charging voltage	57.6V—60V
Continuously use output current	100A	Maximum charging voltage	90V
Charging voltage of solar panel	88V	Cut-off	36-48V
Charging cut-off voltage	55.2V-58.4V	Maximum solar panel input current	100A
Rshoot delay protection	1000mS	Over-discharge delay protection	1000mS
Short circuit protection recovery	Disconnect load	Short circuit protection delay	330uS
Self-Discharge (25°)	<3%/month	Depth of discharge	>80%
Cycle life	>5000 times (<0.5C)	C-rate Discharge	<0.8C
Charge method(CC/CV)	Operation: -20°C—70°C; Recommendation: 10°C—45°C		
Warranty	5 years		
Product size	652±2mm×616±2mm×400±2mm		
Package size	750±5mm×703±5mm×471±5mm/PC		

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 d esign, DC output, safe and reliable.
- Integrated packaging, safe and convenient to transport.

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Instructions



Attention:

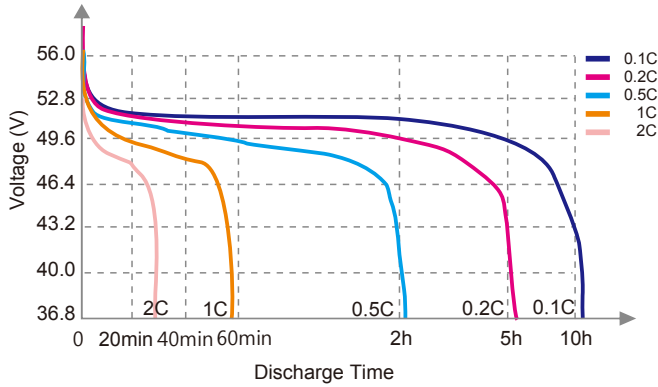
1. Please follow the guide to connect the equipments, if connecting in wrong way, the equipment have the existence of risk to be burned out.
2. LiFePO4 battery pack can be charged both by solar panels and city power.
3. It is prohibited to put the battery pack outside in the rainy days.
4. If chaging current reached input protection current, or discharging current exceeded output protection current, the battery will stop working. This is battery protection phenomenon, will be work again when was charged(input current should be lower than input protection current).
5. The battery pack should not be used under overvoltage. the open circuit voltage of the 48V battery pack cannot exceed 88V.
6. It is prohibited to repair or disassemble the battery pack by the non-professional persons.
7. It is forbidden to use in series.



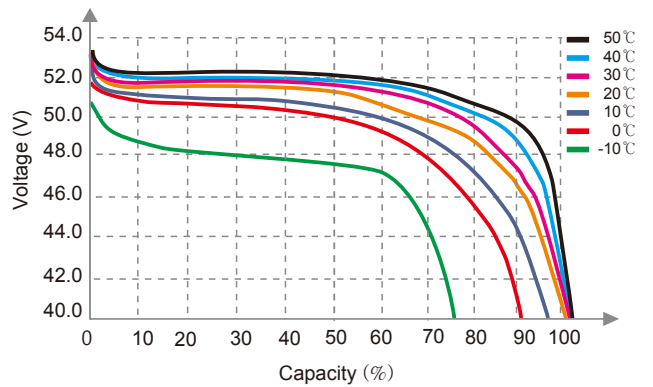
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Battery Specification

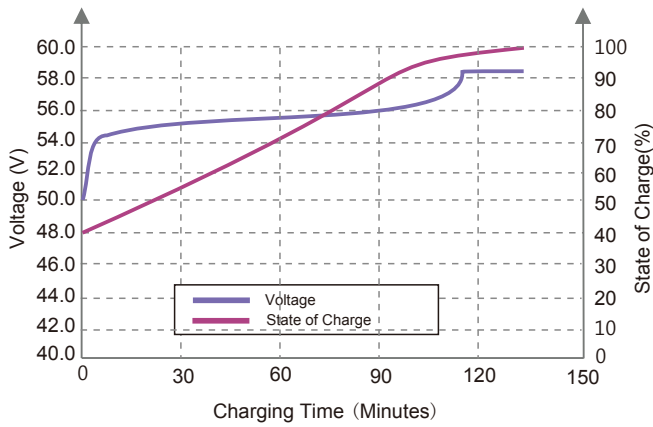
Different Rate Discharge Curve (25°C)



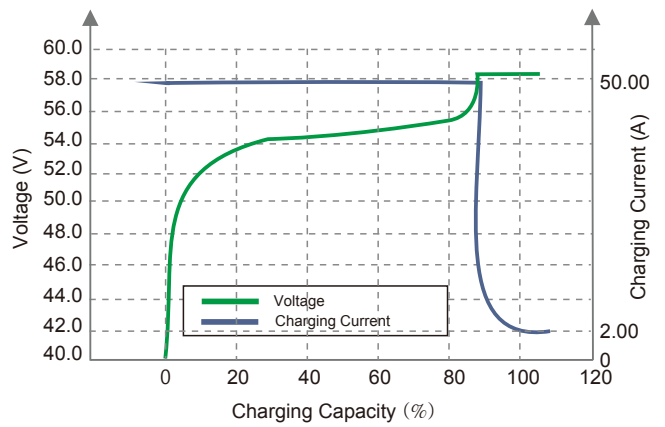
Different Temperature Discharge Curve (0.5C)



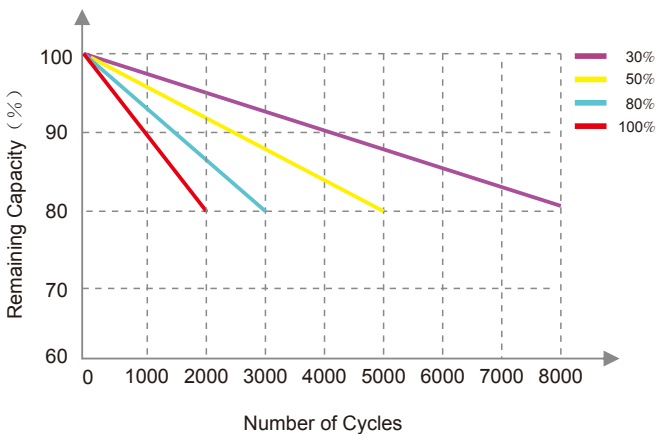
State of Charge Curve (0.5C, 25°C)



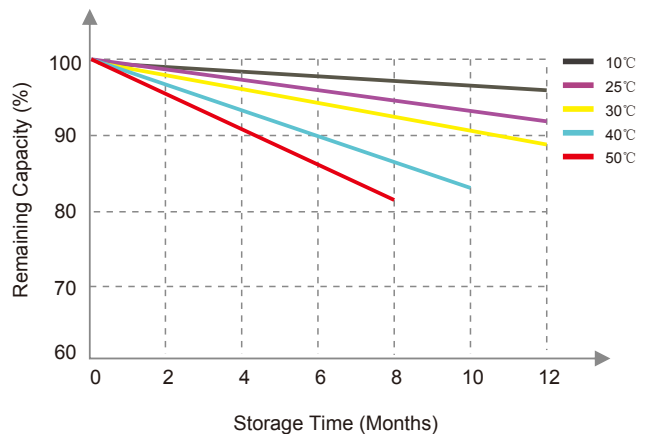
Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve





The Advantages and Characteristics of LiFePO₄ Battery

- **Volume:** The capacity of LiFePO₄ battery is bigger than lead- acid cell with the same volume. With the same capacity, LiFePO₄ battery volume is only two thirds of lead-acid.
- **Weight:** LiFePO₄ is light. The weight is just 1/3 of lead-acid cell with the same capacity.
- **Discharge rate:** LiFePO₄ battery can discharge with maximum current , it is used in electric vehicles and electric bicycles.
- **No memory effect:** No matter the LiFePO₄ Battery is in which conditions, it can be charged and discharged whenever you like, no need to discharge totally then charge for it.
- **Durability:** The durability of LiFePO₄ Battery is powerful and consumption is slow. The time of charging and discharging is more than 2000times. After 2000times circulation, the capacity of the battery is still more than 80%.
- **Security:** LiFePO₄ battery passed the strict safety testing, with higher safety performance.
- **Environmental protection:** Lithium materials not have any poisonous and harmful substance. It is regarded as green and environmental protection battery. The battery has no any pollution no matter in the process of production or in the process of using.
- **Well graded and combination.** After multi-selection, to ensure each cell qualified with long life;
- **The connection tech of all interface, be safe and durable, with simple maintenance.**
- **Multi-layer protection structure, could be waterproof, shockproof, anti explosion and fire.**
- **Various joints, could be customized, safe and durable for long run.**
- **Security and reliability, compared with lead-acid battery, the materials of LiFe PO₄ is the securest, the best choice of solar energy storage battery.**

Storage and Transportation

- **Based on the character of cell, proper environment for transportation of LiFePO₄ battery pack need to be created to protect the battery.**
- **Battery should be kept at -20°C—45°C in warehouse where it' s dry, clean and well-ventilated.**
- **During loading of battery, attention must be paid against dropping, turning over and serious stacking.**



Notices

- Never use or keep the battery under the high temperature. Otherwise it will cause battery heat, get into fire or lose some function and reduce the life. The proposed temperature for long-term storage is 10-45°C.
- Never throw the battery into fire or heating machine to avoid fire, explosion and environment pollution; scrap battery should be returned to the supplier and handled by the recycle station.
- Never use the battery under strong static and strong magnetic field, otherwise it will destroy the protecting device.
- If battery leaked, the electrolyte get into eyes, please don't knead, please wash eyes by water and send to hospital. Otherwise it will hurt eyes.
- If battery emit peculiar smell, heating, distortion or appear any unconventionality during using, storage or charging process, please take it out from device or charge and stop using.
- Never cut the battery in socket directly; please use the stated charger when charging.
- Check the voltage of battery and relevant connectors before using the battery. It can't be used until everything turns out to be normal.
- Prior to charging, fully check the insulativity, physical condition and ageing status, since breakage and ageing are never allowed; the pack voltage must not be less than 10V, if not, it's abnormal and that battery needs to be labeled. The user should contact our Customer Service Dept and It can't be charged until repaired by our staff.
- The battery should be stored in half SOC. It needs to be charged once if out of use for as long as half a year.
- Clean the dirty electrode, if any, with a clean dry cloth, or poor contact or operation failure may occur.

Warning

- Never knock, throw or trample the battery.
- Never upside down the positive and negative.
- Never connect the positive and negative of battery with metal.
- Never ship or store the battery together with metal.
- Never cut through the battery with nail or other edge tool.
- Never throw the battery into water, please keep it under dry, shady and cool circumstance when not use.