12V 120AH LiFePO4 Battery Puyang Solar

Can a solar panel charge a LiFePO4 battery?

Harnessing the power of the sun to charge LiFePO4 (Lithium Iron Phosphate) batteries is an increasingly popular method due to its environmental benefits and cost-effectiveness. This comprehensive guide will address common questions and provide detailed steps to help you successfully charge your LiFePO4 batteries using solar panels.

What is a 12V LiFePO4 battery used for?

A 12V LiFePO4 Battery is used as a solar energy storage cell and power supply for 12V household appliances,such as refrigerators,washing machines,TVs,monitors,and air conditioners. It is also perfect for powering various electric appliances of RVs during long-distance travel. Additionally,it is suitable for use on yachts,golf carts,and trolling motors.

What voltage does a LiFePO4 battery need?

LiFePO4 batteries have a unique voltage profile compared to other lithium-ion batteries. They typically require a charging voltage of 3.6V to 3.65V per cell. For a 12V battery (which consists of four cells in series),the total charging voltage is 14.4V to 14.6V. Ensure that your solar charger can provide these specific voltages.

How do I charge a LiFePO4 battery?

Connect the Battery: First, connect the positive and negative terminals of the LiFePO4 battery to the corresponding terminals on the charge controller. This initial connection allows the controller to detect the battery voltage and apply the correct charging algorithm.

What is Puyang Solar?

PUYANG SOLAR,established in 2018,is a high-tech enterprise that specializes in the R&D,production,and sales of solar charge controllers and Lithium(LiFePO4) batteries. We have factories for solar charge controllers (150,000 square meters) and Lithium(LiFePO4) batteries (270,000 square meters),both located in DongGuan city,Guangdong Province.

How do you calculate watt hours for a 12V 100Ah battery?

For a 12V 100Ah battery,the calculation would be: Watt-hours (Wh)=Voltage (V)×Capacity (Ah)Wh = 12V × 100Ah = 1200Wh Once you have the total watt-hours,you can determine the size of the solar panel needed. Suppose you want to charge your 100Ah battery in 5 hours of peak sunlight.

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