6 4V 12AH LiFePO4 Battery BYingPower

What is a 12V LiFePO4 battery?

LiFePO4 cells have a nominal voltage of 3.2V, much higher than the 2V for lead acid batteries. This higher stack voltage means less relative change as the battery discharges. For example, a 12V LiFePO4 battery may go from 14.4V fully charged to 12.8V near empty, a change of 12%. A 12V lead acid battery goes from 12.6V to 10.5V, a change of 20%.

What voltage is a 48V LiFePO4 battery?

From the figure, it's clear that: The fully charged voltage is 29.2V, and 20V is the typical low voltage cut-off. The flat voltage zone is from 80% to 20% state of charge. 24V batteries are a convenient option for doubling capacity over 12V systems. For 48V LiFePO4 batteries, the voltage chart is plotted below: As shown in the chart:

What is a LiFePO4 voltage chart?

A LiFePO4 voltage chart represents the battery's state of charge(usually in percentage) based on different voltage levels. The state of charge (SOC) of a LiFePO4 battery indicates how much usable capacity is left. SOC is determined by measuring the battery's open circuit voltage (OCV),which is its resting voltage with no load or charging applied.

What is the resting voltage of a LiFePo 4 battery?

The resting voltage of a fully charged LiFePO 4 battery is typically around 13.2V to 13.4V. As the SoC decreases,the resting voltage decreases accordingly. Voltage vs. SoC relationship can vary slightly depending on the specific LiFePO4 battery manufacturer,temperature,and other operating conditions.

How much can A LiFePO4 battery discharge?

LiFePO4 can discharge down to 90-100%of its rated capacity,unlike lead acid batteries,which should only be discharged to 50% to prevent damage. LiFePO4 batteries exhibit a flat discharge curve. For most of the battery's capacity,the voltage stays relatively constant.

How does a LiFePO4 battery work?

A LiFePO4 cell has a nominal voltage of 3.2V. By connecting cells in series,we can build batteries of different voltages: Lithium ions flow from the anode to the cathodewhen the battery is being used. This process generates electricity in the connected circuit. When charging,the ions flow reverse from the cathode to the anode.

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