

How to charge the battery cabinet mobile power supply





Overview

How do you charge a lithium ion battery with a power supply?

Charging with a power supply requires you to set both voltage and current limits for each cell. For most lithium-ion chemistries, such as NMC Lithium battery, LCO Lithium battery, and LMO Lithium battery, you set the full charge voltage at 4.20V per cell. For LiFePO₄ Lithium battery, you set the voltage at 3.65V per cell.

How do you charge a lead-acid battery with a power supply?

Charging with a power supply gives you flexibility when working with lead-acid batteries. You must calculate the charge voltage based on the number of cells. For a typical 12V battery (6 cells), set the voltage to 14.40V (2.40V per cell). Select a charge current between 10% and 30% of the battery's rated capacity.

Can You charge a portable power station while using it?

Yes, you can charge a portable power station while using it, a process known as pass-through charging. This feature allows you to simultaneously power devices and recharge the station, making it highly convenient for continuous use, although it may impact the charging efficiency and overall battery lifespan.

Can a power supply charge a battery?

In controlled scenarios, a power supply can charge batteries if you implement safeguards: Voltage matching: A 12V lead-acid battery requires 13.6–14.4V for charging—adjust your power supply accordingly. Current limiting: Use a bench power supply with adjustable current or add a resistor in series.



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