



FTMRS SOLAR

LiFePO4 battery pack connection





Overview

What is a LiFePO4 battery pack?

LiFePO4 Battery Pack: The heart of your system. **Ultra-Long Lifespan:** Built to last for over 4,000 deep cycles, providing reliable power for years. **Advanced Built-in BMS:** LiTime Battery Management System (BMS) offers critical protections, including over-temperature, over-current, short-circuit, and over-charge/discharge prevention.

How do you build a LiFePO4 battery pack?

Battery Pack: Combine cells in series (\uparrow voltage) or parallel (\uparrow capacity). Example: 4 cells in series = 12.8V; 4 cells in parallel = 400Ah. Hybrid setups (e.g., 4s2p = 12.8V, 200Ah) balance voltage and capacity. **Step-by-Step Guide to Building Your LiFePO4 Pack Cells:** Grade A LiFePO4 cells (EVE, CATL). Avoid mismatched voltages ($>0.05V$ variance).

What is a lithium iron phosphate (LiFePO4) battery management system?

Lithium Iron Phosphate (LiFePO4) batteries are prized for their safety, long lifespan, and stability. However, to ensure your battery pack performs reliably and safely, a Battery Management System (BMS) is essential.

How do you charge a LiFePO4 battery?

Wrap cells in fish paper or fiberglass sleeves. Use a ventilated, fireproof case to prevent thermal runaway. Charge at 0.5C (e.g., 50A for 100Ah) using a LiFePO4-specific charger. Full charge: 3.65V/cell (14.6V for 12V pack). Discharge cutoff: 2.5V/cell (10V for 12V pack). Avoid Full Discharges: Cycle between 20%-80% SOC to extend lifespan.



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