

Tool batteries connected in series or parallel





Overview

What is the difference between a series and parallel battery?

Series batteries require monitoring for voltage sag across individual cells, while parallel systems need attention to current sharing and terminal integrity. Redway Power recommends periodic inspection, BMS monitoring, and balanced charging cycles to extend battery life and ensure reliability in either configuration.

Can you connect a battery in parallel?

Connecting batteries in series increases the voltage (V), while connecting them in parallel increases the capacity (amp-hours, Ah). The total power (measured in watt-hours, Wh) available from the batteries remains the same in both configurations; it's the delivery—voltage and current—that differs. Can you wire different batteries in parallel?

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How do parallel battery connections work?

Parallel battery connections work by combining the current output while maintaining the same voltage. When you connect batteries positive-to-positive and negative-to-negative, you create multiple pathways for current to flow.

Are series and parallel battery wiring safe?

Both can be safe when configured properly, but series wiring carries higher risk if one battery fails, affecting the entire chain. Parallel wiring risks uneven current draw without proper BMS. Redway Power's integrated management systems reduce these risks by monitoring voltage, temperature, and current across all cells.



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