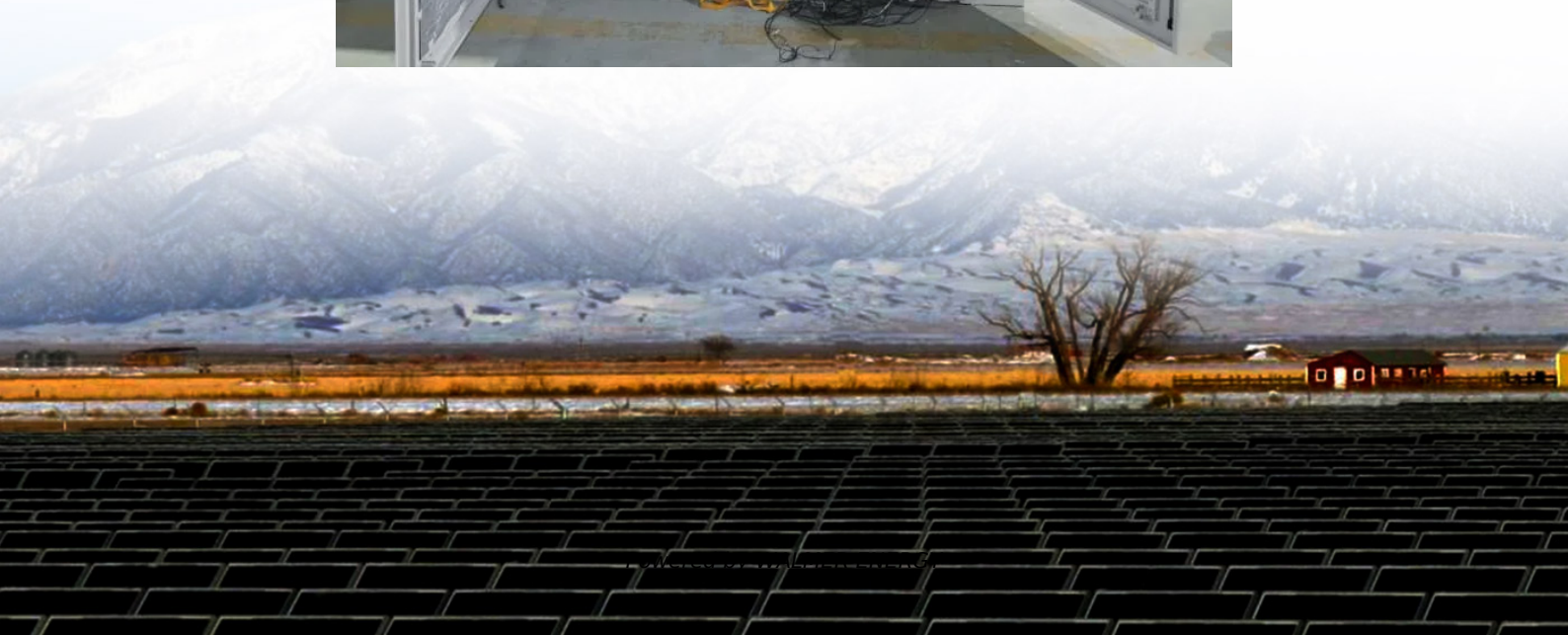


Lead-acid battery cabinet parameters





Overview

What are the technical specifications of lead-acid batteries?

This article describes the technical specifications parameters of lead-acid batteries. This article uses the Eastman Tall Tubular Conventional Battery (lead-acid) specifications as an example. Battery Specified Capacity Test @ 27 °C and 10.5V The most important aspect of a battery is its C-rating.

How do I choose a lead-acid battery?

Understanding core technical parameters is critical when selecting lead-acid batteries (especially gel or lead-carbon types). This guide breaks down rated voltage, max charge/discharge currents, depth of discharge (DOD), cycle life, and power calculations to help you optimize battery lifespan and system design. 1. Rated Voltage.

What is the capacity of a lead-carbon battery?

Lead-carbon (0.25C): Min. capacity = 400Ah Discharging Current (Load-dependent): *10kW load + 48V battery* → Max discharge current = 200A Lead-carbon battery(30I₁₀): Min. capacity = >80Ah Gel battery (3I₁₀): Min. capacity = 800Ah 3. Depth of Discharge (DOD) & Cycle Life: Shallow Cycle: 10-30% DOD Medium Cycle: 40-70% DOD Deep Cycle: 80-90% DOD.

How efficient is a lead-acid battery?

A lead-acid battery at first had an efficiency of about 75%, but thankfully has improved with efficiencies to around 95% with some technologies. Final Voltage The term 'final voltage' designates the minimum useful and accepted voltage of a cell or battery at various rates of discharge.



Lead-acid battery cabinet parameters

Specification for Batteries (IEC)

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