

Solar container communication station lead-acid battery parameters





Overview

The article provides an overview of key battery specifications essential for comparison and performance evaluation, including terminal voltage, internal resistance, energy capacity, and efficiency. 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.

What is the nominal voltage of a lead-acid battery?

An AGM lead-acid battery with a nominal voltage of 6 V and a nominal capacity of 1.2 Ah has been selected for the experiments. For a real time calculation of the model parameters, the recorded date of the measured terminal voltage and load discharge current have been transmitted to the host computer via an arduino boards (Arduino mega 2560).

What is the capacity of a lead-acid battery?

Ordinary lead-acid (0.1C): Min. capacity = 1000Ah 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



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Rosen Solar Rosen Solar Energy Co., Ltd

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Interpreting Battery Parameters and Specification Sheets

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