

ContainerPower Energy Solutions

Base station lead-acid battery technical 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 does temperature affect the performance of lead-acid batteries?

Temperature characteristics affect the performances of lead-acid batteries to a large extent. At different temperatures, these batteries exhibit varied behaviors: Charging and Discharging Efficiency: Cold weather acts as an obstacle for chemical reactions within the battery in a short time.

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 nominal capacity of sealed lead acid battery?

The nominal capacity of sealed lead acid battery is calculated according to JIS C8702-1 Standard with using 20-hour discharge rate. For example, the capacity of WP5-12 battery is 5Ah, which means that when the battery is discharged with C20 rate, i.e., 0.25 amperes, the discharge time will be 20 hours.

Why do lead acid batteries have a moderate resistance?

The moderate intern resistances characterize lead acid batteries, consequently affecting their performances on high current demands, which are caused by factors such aspects such as electrolyte/ electrode material

resistances, among others.

What is the charging voltage for Valve Regulated Lead acid battery?

The charging voltage for the valve regulated lead acid battery should not be in excess of the gassing voltage, which is 2.4~2.5V/cell. The gassing voltage varies with temperature, and is decreased as the temperature is increased. Its temperature coefficient is $-5.0\text{mV}/^{\circ}\text{C}/\text{cell}$.

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