

What does the lead-acid battery cabinet contain





Overview

What are the components of a lead-acid battery?

Below are the five main components of a lead-acid battery, each of which plays a vital role in the battery's overall performance and function. 1. Positive Plates (Lead Dioxide) The positive plates in a lead-acid battery are made from lead dioxide (PbO_2), a compound that plays a critical role in the battery's electrochemical reaction.

How does a lead-acid battery work?

The negative plates of a lead-acid battery are made from spongy lead (Pb), which is a porous form of lead. These plates also undergo electrochemical reactions similar to the positive plates, but in reverse. When the battery discharges, the lead reacts with the sulfuric acid electrolyte to form lead sulfate and release electrons.

What is the construction of a lead acid battery cell?

The construction of a lead acid battery cell is as shown in Fig. 1. It consists of the following parts : Anode or positive terminal (or plate). Cathode or negative terminal (or plate). Electrolyte. Separators. Anode or positive terminal (or plate): The positive plates are also called as anode. The material used for it is lead peroxide (PbO_2).

What are the applications of lead - acid batteries?

Following are some of the important applications of lead - acid batteries : As standby units in the distribution network. In the Uninterrupted Power Supplies (UPS). In the telephone system. In the railway signaling. In the battery operated vehicles. In the automobiles for starting and lighting.



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