

# **Lead-acid battery cabinet base station power generation**





## Overview

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Do lead-acid batteries release hydrogen gas?

It is common knowledge that lead-acid batteries release hydrogen gas that can be potentially explosive. The battery rooms must be adequately ventilated to prohibit the build-up of hydrogen gas. During normal operations, off gassing of the batteries is relatively small.

Are vented lead acid batteries recombinant?

Vented Lead Acid Batteries (VRLA) batteries are 95-99% recombinant normally, and only periodically vent small amounts of hydrogen and oxygen under normal operating conditions. However, both types of batteries will vent more hydrogen during equalize charging or abnormal charge conditions.

What are lead-acid batteries used for?

Lead-acid batteries are the most widely used energy reserve for providing direct current (DC) electricity, primarily for uninterrupted power supply (UPS) equipment and emergency power system (inverters). There are two basic cell types: Vented and Recombinant Valve Regulated Lead-acid (VRLA) Batteries.

What is a vented lead acid battery?

Vented Lead Acid (VLA) and vented Ni-Cad (Ni-Cad) batteries are either fully vented or partially recombinant battery types (Figure 1). They are batteries with free-flowing liquid electrolyte that allows any gasses generated from the battery during charging to be directly vented into the atmosphere.

What is a vented lead acid battery (VLA)?

Vented Lead Acid Batteries (VLA) are always venting hydrogen through the flame arrester at the top of the battery and have increased hydrogen evolution during charge and discharge events.

What is a flooded lead-acid battery?

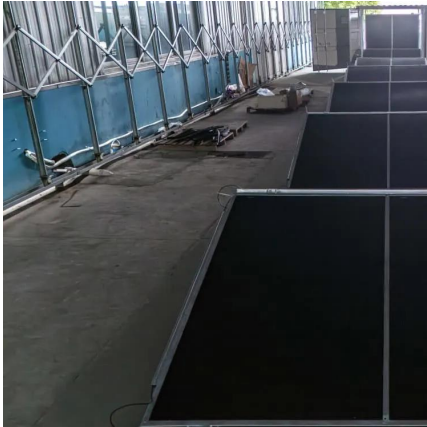


Vented Lead-acid Batteries are commonly called “flooded” or “wet cell” batteries. These have thick lead-based plates that are flooded in an acid electrolyte. The electrolyte during charging emits hydrogen through the vents provided in the battery.



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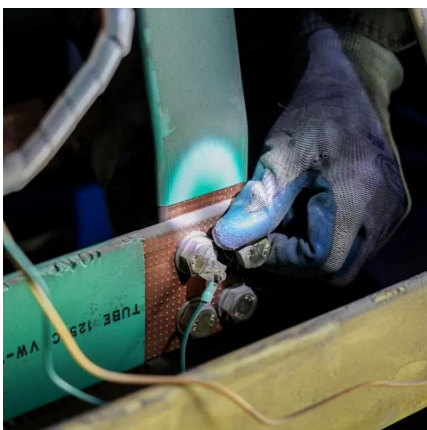


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