

## A-Core Container

# Installation requirements for lead-acid battery equipment for small communication base stations



## Overview

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Micro base stations, often with limited space, often use smaller-capacity (e.g., 50Ah, 100Ah) 12V lead-acid battery packs or smaller lithium-ion battery packs, installed in integrated cabinets. Indoor distribution systems are typically installed in weak current shafts or equipment rooms. What are recommended design practices and procedures for vented lead-acid batteries?

Abstract: Recommended design practices and procedures for storage, location, mounting, ventilation, instrumentation, preassembly, assembly, and charging of vented lead-acid batteries are provided. Required safety practices are also included. These recommended practices are applicable to all stationary applications.

What are the requirements for battery installation?

§ 111.15-5 Battery installation. (a) Large batteries. Each large battery installation must be in a room that is only for batteries or a box on deck. Installed electrical equipment must meet the hazardous location requirements in subpart 111.105 of this part. (b) Moderate batteries.

What are the safety requirements related to batteries & Battery rooms?

Employers must consider exposure to these hazards when developing safe work practices and selecting personal protective equipment (PPE). That is where Article 320, Safety Requirements Related to Batteries and Battery Rooms comes in.

Do you need documentation before entering a battery room?

It is a requirement to have all the documentation in place prior to authorized personnel entering a battery room to perform a specific work task on a battery system under normal operating conditions. However, it is likely the employee will need to enter the battery room to deal with a battery system that is not operating normally.

Do you need a sign for a lead-acid battery system?

Signs. Doors into rooms or buildings containing stationary lead-acid battery systems shall be provided with approved signs. The signs shall state that the room contains lead-acid battery systems, that the battery room contains energized electrical circuits and that the battery electrolyte solutions are caustic.

What is the IEEE standard for battery installation?

IEEE Std 1187, IEEE Recommended Practice for Installation Design and Installation of Valve-Regulated Lead acid Storage Batteries for Stationary Applications. IEEE 1635, IEEE/ASHRAE Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications. Ventilation and Hydrogen Control. 2-3.2.1 Hydrogen Generation.

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