

## A-Core Container

# Battery cabinet in the computer room



## Overview

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Are battery cabinets safe?

Authorized personnel must be trained in battery safety. Battery cabinets must enclose the batteries behind locked doors accessible only to authorized personnel. As long as the cabinets are kept locked, they can be located in a computer room or other rooms accessible by non-battery technicians.

Can a battery be installed in a computer room?

Sometimes they are installed in the same room as the UPS (i.e., electrical equipment room). Local or regional codes may dictate whether batteries are permitted in an electrical room. Smaller UPS systems (e.g, up to 250 kVA) are commonly installed directly in the computer room along with their respective battery cabinets.

Why do you need a battery cabinet?

Ease of use is one of the principle selling points for battery cabinets. It is convenient to service the equipment when the UPS and the battery (ies) are right next to each other. Conversely, it is inconvenient to have to go to a separate room when open-rack batteries are installed.

How do I set up an UPS battery room?

Open-rack battery rooms must be adjacent to the UPS room. Battery cabinets must be adjacent to the UPS equipment. Cable lengths from multiple cabinets should be kept as nearly identical as possible to prevent voltage drop variations. One cabinet should be able to hold at least one complete string of cells.

How many cells can a battery cabinet hold?

One cabinet should be able to hold at least one complete string of cells. Best practice is that strings should not be split between two cabinets in order to ensure reliability of the entire string. Figure 1 - Battery cabinet with top

terminal cells.

What are the requirements for a battery room?

It specifies that battery rooms must be properly ventilated, include safety equipment like eye wash stations and protective gear, and maintain optimal temperature conditions. Electrical codes and standards from IEEE, NFPA, and OSHA must also be followed regarding battery room construction and ventilation.

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## Contact Us

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