

Article Overview

Anti-static battery storage cabinets are designed to prevent electrostatic discharge (ESD) damage to sensitive components, using conductive or dissipative materials, grounding systems, and modular organization features.

Key Features of Anti-Static Cabinets

Materials and Construction: Anti-static cabinets are typically made from ESD-safe steel or conductive plastics with coatings that dissipate static charges. Some cabinets use galvanized steel for corrosion and abrasion resistance, while drawer slides may be made from impact-resistant POM for durability and smooth operation .

Standards Compliance: High-quality ESD cabinets comply with IEC 61340-5-1, IEC 61340-6-1, and ANSI/ESD S20.20, ensuring safe storage in Electrostatic Protected Areas (EPA) and protecting sensitive electronics or battery components from static damage .

Grounding Systems: Cabinets feature conductive grounding feet or integrated grounding points to safely dissipate static charges, maintaining a static-free environment for stored items .

Modularity and Organization: Many cabinets offer stackable or side-by-side configurations, adjustable shelves, removable dividers, and drawer inserts for flexible storage of batteries, PCBs, or other ESD-sensitive components . Built-in stops prevent drawers from falling, and optional index cards or labeling systems improve organization .

Accessibility and Safety: Cabinets may include lockable compartments, glass doors, or mobile wheels for secure and convenient access. Anti-static foam inserts or conductive trays can provide additional protection for delicate items during storage or transport .

Applications: These cabinets are ideal for laboratories, cleanrooms, electronics workshops, and battery storage areas, where static-sensitive devices or components need reliable protection. They help maintain compliance, reduce component damage, and improve workspace efficiency .

Choosing the Right Solution

When selecting an anti-static battery storage cabinet, consider:

- o Size and capacity for your battery or component inventory
 - o Material and ESD rating to match your EPA requirements
 - o Modularity and drawer configuration for flexible organization
 - o Grounding and safety features to ensure static dissipation
 - o Optional accessories like dividers, foam inserts, or labeling systems for enhanced usability
- By integrating these features, an anti-static cabinet provides a safe, organized, and compliant solution for storing batteries and other ESD-sensitive components, reducing the risk of electrostatic damage and improving operational efficiency .



Battery Storage Cabinet Anti-Static Solution

These cabinets effectively prevent a fire from spreading from the outside to the batteries stored inside. At the same time, the risk of a

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Safety storage cabinets for passive or active storage of lithium-ion batteries according to EN 14470-1 and EN 1363-1 with a fire

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Electrostatic discharge (ESD) floors are floors installed with ESD flooring systems to protect electronics

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