

ContainerPower Energy Solutions

The latest national standards for imported battery cabinets

LPW48V100H
48.0V or 51.2V



Overview

This First Edition of ANSI/CAN/UL/ULC 1487 dated February 10, 2025 is being issued as a new joint US/Canada Standard for Battery Containment Enclosures. What is a battery containment enclosure?

This Standard addresses battery containment enclosures intended to mitigate the heat, fire, and deflagration hazards that can result from lithium-ion battery thermal runaway. The Standard details safety requirements for enclosures, including performance requirements such as the Internal Thermal Runaway Test and Internal Deflagration Test.

What are the key standards for lithium ion cells?

Here's a breakdown of key standards at each level: IEC 62619 and IEC 63056 ensure safety and performance for industrial lithium-ion cells. UL 1642 and UN 38.3 verify safety and transport compliance of lithium cells. RoHS and REACH (NPS) ensure environmental and chemical safety.

Are lithium-ion batteries regulated in China?

Lithium-ion cells and batteries produced in or imported into China are now regulated in accordance with China's Compulsory Certification (CCC) system.

Are batteries safe when used under high temperature conditions?

Batteries shall be sufficiently safe when used under high temperature conditions. To ensure compliance with this requirement, a fully charged battery is placed in a high temperature test chamber with the temperature set to the maximum value of: 80 °C.

What are the NFPA standards for uninterruptible power systems?

IEC 62933-2-1 and IEC TS 62933-5-1 / UL 9540 ensure complete system safety and performance. IEC 62040-1 covers general safety for uninterruptible power systems. NFPA 855, NFPA 69, and NFPA 68 provide fire protection, explosion prevention, and ventilation design standards.

Which UL standards are applicable?

IEC 60529 (IP ratings) and IEC 62485-5 address protection and operational safety. UL 1973, UL 9540A, RoHS, and REACH also remain applicable. Alignment with BIS-recognized testing laboratories is advisable, particularly for government or utility-scale deployments.

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