

# Regulations for lithium iron phosphate battery station cabinets



## Overview

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This document will serve as guideline for the safe handling, use, and storage of lithium batteries in the United States Antarctic Program (USAP). This document has been created to satisfy recommendations of National Science Foundation (NSF) Service Life Extension Program (SLEP) inspectors, JMS.

Outdoor storage areas for lithium-ion or lithium metal batteries, including storage beneath weather protection in accordance with Section 414.6.1 of the International Building Code, shall not exceed 900 square feet (83.6 m<sup>2</sup>). The height of battery storage in such areas shall not exceed 10 feet.

Lithium-ion batteries are the driving force behind today's portable power revolution—powering everything from electric vehicles to industrial equipment, tools, and communication systems. As their use expands across sectors, so do the risks associated with improper handling, charging, and storage.

Lithium-ion batteries are one type of rechargeable battery technology (other examples include sodium ion and solid state) that supplies power to many devices we use daily. In recent years, there has been a significant increase in the manufacturing and industrial use of these batteries due to their.

Lithium-ion batteries need a battery room if their capacity exceeds 20 kWh, according to fire codes. NFPA 855 outlines ventilation and safety requirements. Store batteries at a temperature of 59°F (15°C). Also, refer to NFPA 70E for further safety guidelines, and ensure proper exhaust ventilation.

Customizable template for federal government agencies seeking to procure lithium-ion battery energy storage systems (BESS). The Federal Energy Management Program (FEMP) provides a customizable template for federal government agencies seeking to procure lithium-ion battery energy storage systems.

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