

## ContainerPower Energy Solutions

# Base station 48v lithium iron phosphate battery



## Overview

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This guide outlines the design considerations for a 48V 100Ah LiFePO4 battery pack, highlighting its technical advantages, key design elements, and applications in telecom base stations. What is a 48 volt lithium iron phosphate battery?

A 48 Volt 160 Ah lithium iron phosphate (LiFePO4) deep cycle battery is packed with power, delivering efficient power for battery systems requiring large amounts of power at 48 Volt. The BSLBATT Battery 48V 160 Ah has a large amp capacity in one battery and eliminates the need for multiple batteries without losing amperage.

Which battery is best for telecom base station backup power?

Among various battery technologies, Lithium Iron Phosphate (LiFePO4) batteries stand out as the ideal choice for telecom base station backup power due to their high safety, long lifespan, and excellent thermal stability.

What is a 48V 100Ah LiFePO4 battery pack?

Our 48V 100Ah LiFePO4 battery pack, designed specifically for telecom base stations, offers the following features: High Safety: Built with premium cells and an advanced BMS for stable and secure operation. Long Lifespan: Over 2,000 cycles, significantly reducing replacement and maintenance costs.

What is a lithium iron phosphate (LiFePO4) battery?

Lithium Iron Phosphate (LiFePO4) batteries are a type of lithium-ion battery with a lithium iron phosphate cathode and typically a graphite anode. Compared to traditional lead-acid batteries or other lithium-ion batteries (such as ternary lithium batteries), LiFePO4 batteries offer several notable advantages:.

What makes a telecom battery pack compatible with a base station?

Compatibility and Installation Voltage Compatibility: 48V is the standard

voltage for telecom base stations, so the battery pack's output voltage must align with base station equipment requirements. Modular Design: A modular structure simplifies installation, maintenance, and scalability.

What is a wide temperature range LiFePO4 battery?

This translates to lower replacement frequency and maintenance costs. Wide Temperature Range LiFePO4 batteries operate reliably in temperatures ranging from -20°C to 60°C, making them suitable for the diverse and often extreme environments of telecom base stations.

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