

## SolarTech Power Solutions

# How to connect the power supply battery of the communication base station



## Overview

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How to connect the energy storage battery of communication base source to maintain the normal operation of communication equipment[3,4]. Given the rapid proliferation of 5G base stations in recent years, the significance of communication energy storage has been configured with a set of 48 V/400.

Among various battery technologies, Lithium Iron Phosphate (LiFePO<sub>4</sub>) batteries stand out as the ideal choice for telecom base station backup power due to their high safety, long lifespan, and excellent thermal stability. This guide outlines the design considerations for a 48V 100Ah LiFePO<sub>4</sub> battery.

The SmartRescue Base Stations, utilizing an analog home run configuration, provide a seamless means of communication between stranded individuals, rescue personnel, and offsite parties; Equipped with built-in battery backup, these base stations ensure uninterrupted communication even during power.

This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes: AC distribution box: Distributes mains power and offers surge protection. Switch-mode power supply: Converts and stabilizes power while managing DC output. Battery banks: Serve as backup power to keep.

Many remote areas lack access to traditional power grids, yet base stations require 24/7 uninterrupted power supply to maintain stable communication services. For base stations located in deserts or other extreme environments, independent power supply is essential, as these areas are not only.

The accessories shown above provide convenient ways to quickly connect your radio to various power sources. Seen clockwise from the upper left are

adapters for powering a radio from a vehicle's cigarette lighter socket, an AC power supply, and a storage battery. The cable at the lower left is a.

## How to connect the power supply battery of the communication bas

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