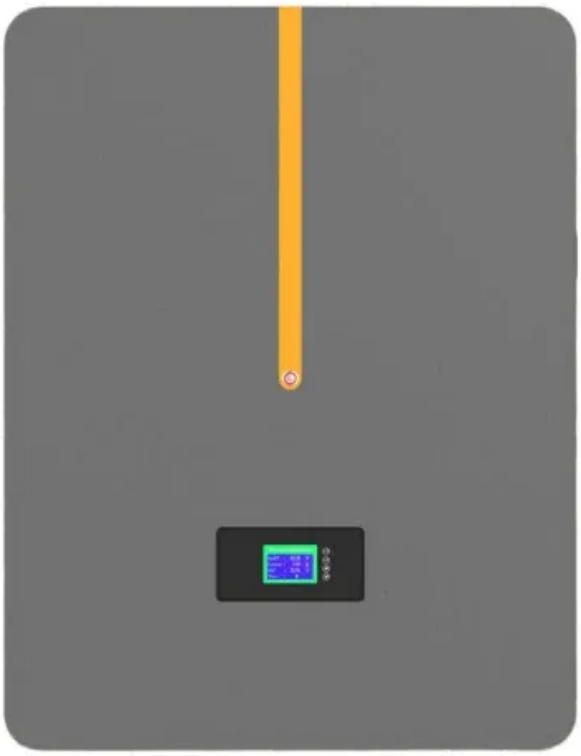
The impact of no power communication base station



Overview

The results showed that the use of supercapacitors as a primary energy source reduced the delay time in load supply by 10 times, the response time in emergency situations decreased by 20–30%, and the overall efficiency of the base station increased by 1–1. A base station consists of antennas, radio transceivers, power units, batteries, backup generators, network access modules, and emergency control systems. This article clarifies what communication batteries truly mean in the context of telecom base stations, why these applications have unique requirements. In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies.

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