



BUHLE POWER

# How much power base station does the battery support





## Overview

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Why do cellular base stations have backup batteries?

Abstract: Cellular base stations (BSs) are equipped with backup batteries to obtain the uninterruptible power supply (UPS) and maintain the power supply reliability. While maintaining the reliability, the backup batteries of 5G BSs have some spare capacity over time due to the traffic-sensitive characteristic of 5G BS electricity load.

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.

How much power does a base station have?

Maximum base station power is limited to 38 dBm output power for Medium-Range base stations, 24 dBm output power for Local Area base stations, and to 20 dBm for Home base stations. This power is defined per antenna and carrier, except for home base stations, where the power over all antennas (up to four) is counted.

How much power does a cellular base station use?

A cellular base station can use anywhere from 1 to 5 kW power per hour depending upon the number of transceivers attached to the base station, the age of cell towers, and energy needed for air conditioning. Cellular base stations use power without any interruption and also needs maintenance.



## How much power base station does the battery support



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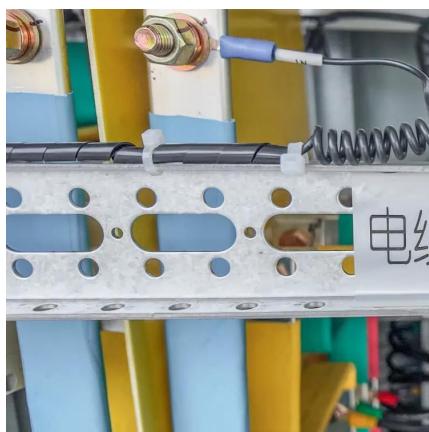


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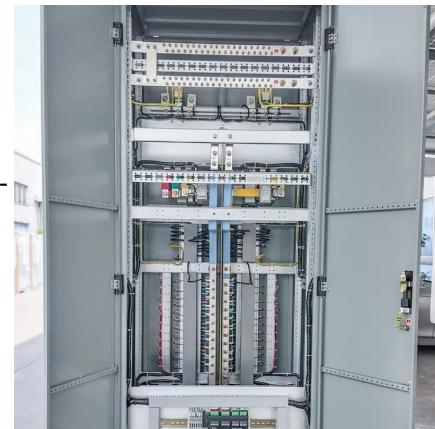


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