

## Kongres Container

**How many volts should the communication base station power supply be selected**



## Overview

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How much power does a PSU need?

This is when the PSU is no longer powering the PA, which is the main power draw, but still needs to power other electronics. The current target for low-load efficiency is about 30 W. Some OEMs would like to see that drop to nearly 10 W.

How will mmWave based 5G affect PA & PSU designs?

Site-selection considerations also are driving changes to the PA and PSU designs. The higher the frequency, the shorter the signals travel, which means mmWave-based 5G will require a much higher density of small cells compared to 4G. Many 5G sites will also need to be close to street level, where people are.

How much power does a PSU need during a quiescent period?

During quiescent periods—typically 5 ms to 100 ms—the PSU must minimize all load power with the basic functions of the antenna unit remaining active. It also must be able to ramp up to full power whenever the antenna wants to check for any active users within its range.

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### Contact Us

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