

# **Base station 48v wind power supply expansion**





## Overview

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What is a 48V Power Partnership?

The partnership aims to drive common solutions in 48V power, specifically by establishing more common footprint blocks, improving supply chain efficiency, increasing design flexibility and reducing qualification processes during product development, and standardizing industry guidelines related to reliability and testing. 6.

What are the benefits of a 48V 1st stage power design?

3.2. Efficiency Contributes to the reduction of design, development cost as well as efficiency in supply chain management by providing a common footprint 48V 1st Stage Power Design. The common footprint also allows for efficient design reviews and allow for suppliers to do design reuse.

What is a -48V back-up battery converter?

The -48V back-up battery converter is similar in construction and complexity to the single-output, high-power VoIP converter previously discussed. The power factor corrected (PFC) AC/DC produces the supply voltage for the 3G Base station's RF Power amplifier (typ. +27V) and the bus voltage for point-of-load converters.

What is a 48V 1st stage power common footprint?

Providing this 48V 1st Stage Power common footprint solution for Data centers enables efficient and responsible power consumption. The common footprint allows for efficiencies and responsible supply chain development and management that help suppliers only invest and develop in solutions that will likely meet customer needs. 4. Objective



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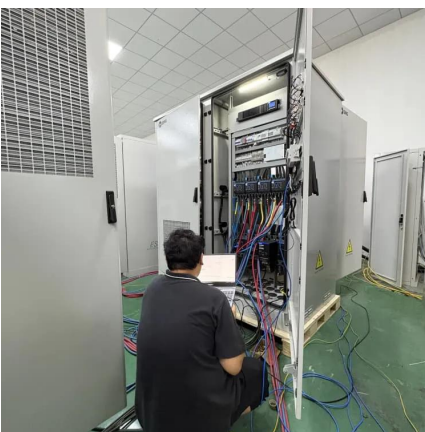
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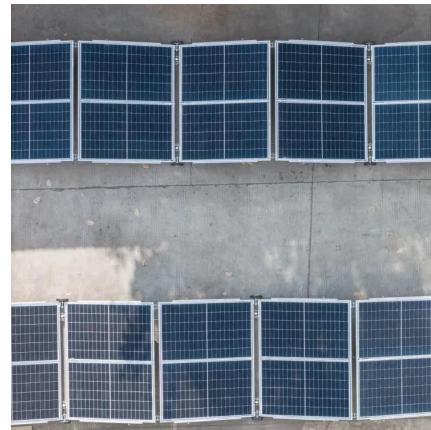
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Figure 3. A power supply for a 5G macro base station block diagram. Highlighted ICs The MAX15258 is a high voltage multiphase boost controller with an I<sup>2</sup>C digital interface designed to support up to two MOSFET ...

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In a 3G Base Station application, two converters are used to provide the +27V distribution bus voltage during normal conditions and power outages. A high-voltage converter ...

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