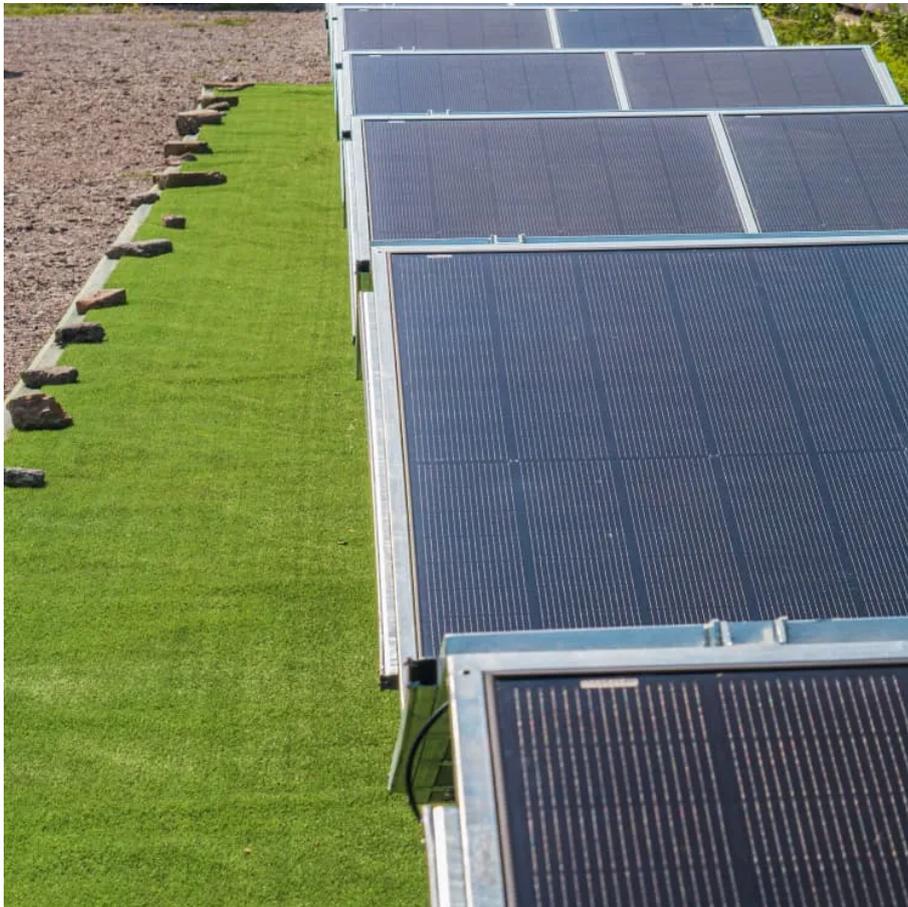


# 48V Base Station Power Supply





## Overview

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Can a 48V power supply be put in series?

Some gotchas here: This will only work if the outputs of the 48V supplies are 'floating'. Many power supplies earth the low side (negative) output - you cannot put them in series since the 'bottom' supply would have both its positive and negative rails at earth potential (i.e. a short circuit).

Can a -48 volt DC power a PA?

However, the -48 V DC must first be efficiently converted to a positive intermediate bus voltage before it can be boosted to power the PA or stepped down to a positive workable supply for the digital baseband units (BBU). A power supply with a capacity of 100 W to 350 W was sufficient to cover many applications.

Why do telecom networks use -48 V DC power?

Telecom and wireless networks typically operate on -48 V DC power, but why?

The short story is that -48 V DC, also known as a positive-ground system, was selected because it provides enough power to support a telecom signal but is safer for the human body while doing telecom activities.

What is negative 48 volt DC?

Negative 48 V DC is still the standard in communications facilities serving up both wired and wireless services as it is perceived to cause less (or at least inhibit galvanic) corrosion in metal than positive voltages.



## 48V Base Station Power Supply

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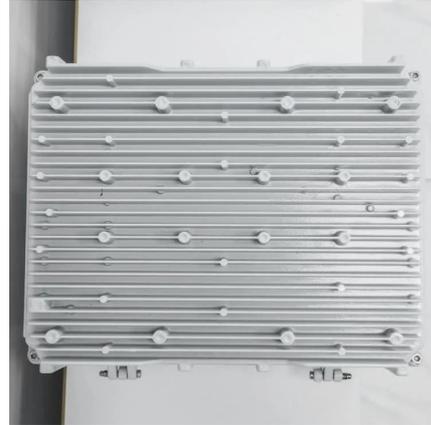


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Figure 3. A power supply for a 5G macro base station block diagram. Highlighted ICs The MAX15258 is a high voltage multiphase boost controller with an I<sup>2</sup>C digital interface designed ...

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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 ...



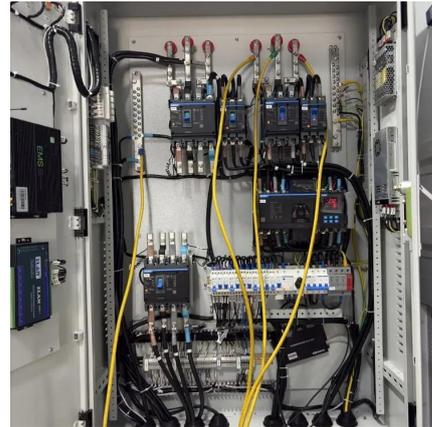
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