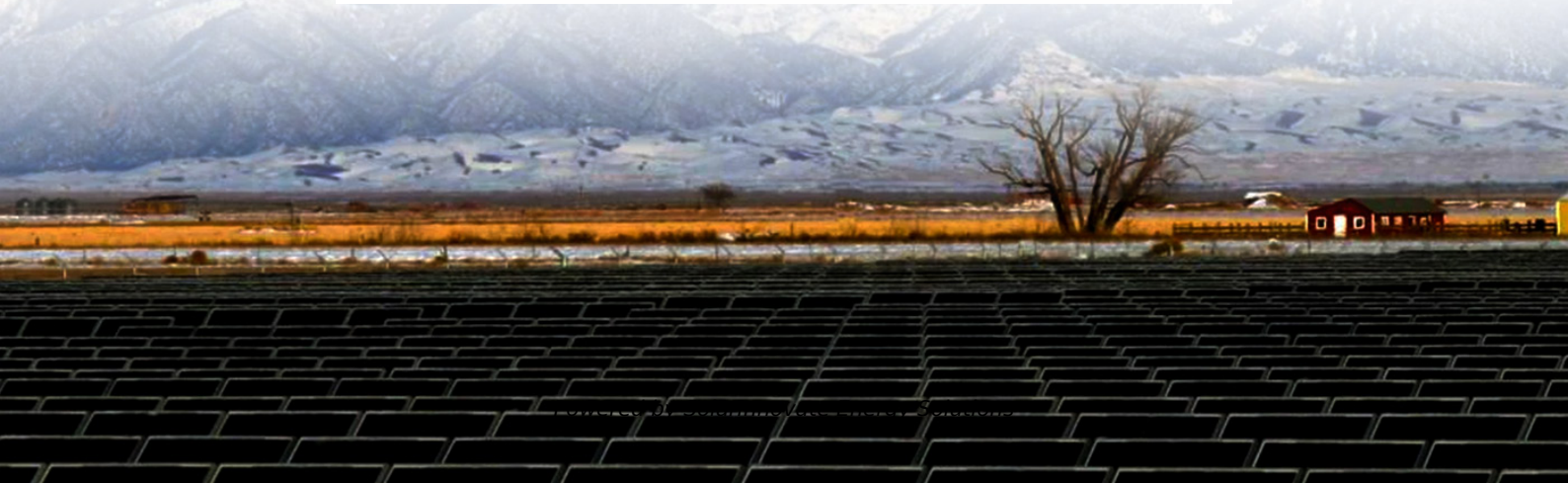


## SolarInnovate Energy Solutions

# How many volts is the power supply of the mobile base station



## Overview

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Mobile radios are typically designed to operate on a 13.8 volt electrical system, which is what you have when the car's alternator is charging the battery. How many volts does a base radio use?

Most base radio operates with AC current through a transformer down to unregulated 13.8 DC volts. Most electronic operate more efficiently on DC current. With a quality power supply with a variable output, a mobile radio can operate safely at 14 to 14.5 volts. My base CB is a Uniden PC-122 mobile.

How many volts does a mobile radio use?

Most electronic operate more efficiently on DC current. With a quality power supply with a variable output, a mobile radio can operate safely at 14 to 14.5 volts. My base CB is a Uniden PC-122 mobile. No frills, other than USB and LSB, but it does what I want it to.

Can a mobile CB be used as a base station?

Yes, a mobile CB can be used as a base station. You will need a DC power supply and a base station antenna. The power supply should have an output between 12 to 14 volts DC. The power supply must be rated at 3 amps or more. You will also need a CB base station antenna.

Can a mobile radio be used as a base station?

A mobile radio is specifically designed to operate on DC power from a vehicle. It has no internal power transformer or inverter of its own, so it isn't made to plug into the AC wall outlet of a home or office building. In that case, how do you power a mobile radio for use as a base station?

That's easy. Get a power supply.

How much power does a mobile radio need?

For starters, let's discuss how much power you will need for safe and stable

operation. For this, you will need the operating specs of your radio. Since mobile radios are designed for use in a vehicle, they will typically need Direct Current (DC) between 12VDC and 13.8VDC operate.

How do base stations affect mobile cellular network power consumption?

Base stations represent the main contributor to the energy consumption of a mobile cellular network. Since traffic load in mobile networks significantly varies during a working or weekend day, it is important to quantify the influence of these variations on the base station power consumption.

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### Measurements and Modelling of Base Station Power Consumption under Real

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