

## SolarTech Power Solutions

# How much current does the base station s external power supply draw



## Overview

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This calculator estimates the minimum and recommended power supply size for your ham radio station based on voltage, current draw, and headroom. It uses the formula:  $P = V \times I$  and  $P_{rec} = P \times (1 + \text{headroom } 100)$  Where: The recommended power supply should be rated for the result in either watts or.

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I've ordered a 10 AMP constant, 12 AMP surge) and will update the outcome here. <https://midlandusa.com/convert-micromobile-base-station/> Scott On 2/6/2021 at 5:39 AM, scottnicely said: Thank you Michael. I appreciate the feedback. Agreed on making sure you have sufficient or surplus power.

Looking at that fuse/breaker size should give you an idea of what your power supply is capable of drawing at full load. Unless you have a whole lot of other high current loads in your room, this isn't likely an issue. Most modern power supplies are pretty efficient. Unlikely a dedicated 120 volt AC.

Lets say I have a 500 watt, 12 volt DC power supply. This means I should be able to draw roughly 41 amps ( $12V \times 41A \approx 500$ ). This is far more current than my mains power can provide. My circuit breakers are like 15 amps. Well, also the supply side is at a different voltage. It supplies power at 120.

For a power supply when it is a base station, does anyone know if a 10 amp one would be ok?

Or could I get away with less. Manual suggests a 10amp, but I don't have one. Just a small 3 or 4 amp one. Thanks. EDIT: Thanks to those who replied. The

specs for the power supply where not where I expected.

A better, safer amp rating to use is the maximum current consumption or amp draw listed in the manufacturer's specifications or in the owner's manual for the radio. To the average layperson, all this sounds overly complicated. So to simplify the process, here are some general guidelines for. How many amps should a power supply have?

If connecting multiple radios, add up the total amps of all the radios during peak load combined. For example, let's say you have a 50 watt radio and the maximum draw is listed at 10 amps. Buying a power supply advertised with a peak load of 10 amps might still be a bad move. First, power supplies have two amp ratings: continuous and maximum.

How many amps does a 500W circuit breaker draw?

This means I should be able to draw roughly 41 amps ( $12V \times 41A \approx 500$ ). This is far more current than my mains power can provide. My circuit breakers are like 15 amps. Well, also the supply side is at a different voltage. It supplies power at 120 volts AC. So,  $500W / 120V = 4.1A$ , it should draw about 4.1 amps to supply the required power.

How do I choose the right size power supply for my Radio?

To the average layperson, all this sounds overly complicated. So to simplify the process, here are some general guidelines for choosing the right size power supply for your radio. Use the manufacturer's amp rating of the radio as the rule. Use the maximum, or peak load rating of the radio, not the standby or typical draw.

How much power does a power supply provide?

How Much Power?

Power supplies are often rated by their continuous and intermittent/peak (ICS) current capacities. The figure you want to look at is the continuous rating—the amount of current the power supply can provide. For example, the Samlex SEC-1235P-M switching power supply is rated 30A continuous output, 36A peak.

How do I choose a DC power supply?

DC output options available on power supplies can include Anderson

Powerpoles, binding posts, set screw terminals, and lighter plugs, or combinations of these. Choose the options most useful to you. Don't worry about buying a power supply with a little extra current capacity. Your equipment will only draw the current it needs—no more, no less.

How many amps can a 12 volt power supply draw?

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