

## ContainerPower Energy Solutions

# How big an outdoor power supply does the amplifier need



## Overview

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There's even an amp specially made for playing outdoors called Roland Cube Street EX. It's a 50-watt amp that can be powered with batteries, it's made for busking. Portable amplifiers are easier to take on the go. A lot of them can even be strapped to a belt. The biggest advantage is that you can.

### How Many Watts Do You Really Need?

Here at Sweetwater, we're often asked how much wattage a guitar amp should have. The correct answer is 350 watts — every time. Just kidding. Seriously, the answer depends on your application and the sound you're aiming for. For example, bedroom and studio.

In any well designed HiFi amplifier, there will be a power supply whose job is to convert the AC mains supply voltage to a DC voltage. The power supply must also be able to provide a reserve of power to cope with any sharp transients in current demand without suffering a decrease in voltage output.

There are multiple ways to power your guitar amp outdoors, including using a battery-powered amp, a gas generator, a car battery, and more. In this article, you'll get to know all about using guitar amps outdoors, how to run a guitar amp off a battery, different ways how to power a guitar amp.

The answer to the question will determine, at least partially, how much power you need to drive your speakers. A bigger room will invariably require more power, and when you go outdoors, you almost never have enough (provided

your speakers are sufficiently rated. This brings us to our next point.

To choose the right battery and inverter for 50W and 60W guitar amps, you first need to calculate the power you need. For example, if you want to power both amps at the same time, you'll need a total power output of  $50W + 60W = 110W$ . However, it's important to note that guitar amps often draw more. How much power do you need for a guitar amp?

If you're aiming for high-volume clean tones, then you'll want an amplifier with more power. For gigging guitarists that play in smaller bars and clubs, a 20- to 45-watt tube amp is a terrific choice.

Where can I find a good article on amp power supply?

TNT-Audio has a very good article on amp power supply that describes various designs. It explains the purpose of RC network and small value caps as well as purpose of dual rectifiers. The diagram you show correspond to fig 4/diagram 4 in the article.

What is a good power supply for a hifi amplifier?

So ultimately, the primary characteristic needed is stability, all things considered, the power supply should have no effect on the amplified audio by way of fluctuations in DC potential available to the amplifier circuitry. Practical power supplies for HiFi amplifiers could be linear, switch mode or (less practically) batteries.

How many ohms should a speaker be?

Most speakers today are 8-ohm nominal, but you can find exceptions. At 8-ohms, you want to have an amplifier that provides at least twice the power of the "continuous Power Handling" spec. That will keep you from sending lots of clipped audio to the speaker and damaging it over time.

What kind of amplifier should I buy?

If you play jazz, funk, or ska or if you simply demand maximum clean headroom, then a 50- to 90-watt tube amplifier is just the ticket. These amps are also ideal for hard rock, metal, and shred-style guitarists who rely on preamp distortion rather than power-amp distortion. These are gig-worthy amplifiers.

How many watts is a solid state amp?

A 20- to 45-watt solid-state amp, on the other hand, will struggle to keep up with a hard-hitting drummer. A solid-state amplifier in this range is best used as a practice amplifier, much like a 5- to 10-watt tube amp.

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