



# Is it okay to connect a portable power supply to an amplifier

Do I need a battery powered amp?

There are times, especially when playing outdoor, when there is no AC power available. For those times it would be nice to have a battery powered amp, or a DC to AC converter you can connect to a 12 volt battery. Battery powered amps seem to always have very low wattage output, with small speakers and don't sound very good.

Can a power adapter run off a mains power supply?

@AO practically every adapter is designed to run off mains (house power), and the nature of "switching power supplies" makes it easy for them to support a wide range of input voltages with little impact on performance.

Do all power amps have regulated linear power supplies?

Actually, very few large power amps have regulated linear power supplies. The amplifier chassis would need significant additional heat sink area just for the the pass transistors required to go with the regulators. That's not to say that state of the art power amps all just have simplistic transformer > diode > capacitor supplies.

Should I use a linear power supply or a rectifier?

So a linear power supply is quiet electrically, so why not use them. Rectifiers can cause noise, mitigated by Schottky diodes, or just plain caps across them. Regulation is nice but not essential to be within 0.0001%, typically +10-15% like most mains rated equipment.

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Anyone ever use a PC power supply to run 12v power to an amp for home use? I've got extras leftover and I think it'd be fun to play with for active tomfoolery. Especially considering a 500 ...

These voltage variations introduce noise, alter tonal balance, and stress components, ultimately shortening equipment lifespan while degrading your listening experience. Professional ...

A power supply in an amplifier converts electrical energy from an external source into a stable voltage and current required for the amplifier's operation. It ensures that the amplifier functions ...

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 ...

Any device will only draw as much current as it needs, so long as its power source can supply it. However, the laptop adapter's voltage is a full volt above the specified 18 V; this will cause ...

A power supply is a source of hum or even high frequency parasitic oscillations if it's a switch mode power



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supply. A pre-amplifier needs very little power, compared with even a CD player ...

Power supplies, and the power feeding those supplies, can often make more difference in sound quality than the circuits they feed. If you're the type that dive's deep into a product's ...

When I grew up, a linear power supply was a full diode bridge with a zener for voltage regulation and maybe a choke/capacitor to smooth things out a bit. It didn't really matter what the ...

Upgrade power supplies for your key components--especially the audio source and amplifier. Use accessories like the GND Defender to eliminate specific issues like ground loops.

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