

Solid state power supply for tube amplifier

What is a tube amp power supply?

A tube amp power supply that's quiet. Tube power amplifiers require various voltages for the plate circuit, bias and heaters. London Power's super-quiet PSU power supply unit provides an integrated power supply solution that is compact while providing extremely clean support for tube audio circuitry.

Do tube power amplifiers need a power supply?

Tube power amplifiers require various voltages for the plate circuit, bias and heaters. London Power's super-quiet PSU power supply unit provides an integrated power supply solution that is compact while providing extremely clean support for tube audio circuitry. These supplies are so good, we use them in our own amplifiers!

What is a tube amplifier power transformer?

The power transformer is a fairly large and heavy component in a tube amplifier. Are there other options? Why aren't switched mode power supplies common in tube amplifiers? It dawned on me that active power factor correcting computer power supplies first step up the line voltage to ~400v before stepping it down again to 12v, 5v, and 3.3v.

What is a generic PSU for tube power amp (PSU-TPA)?

The generic PSU for tube power amp (PSU-TPA) can be used with modern or traditional power transformers. Our own PTs are named to indicate the audio power that can be produced with a matching PA66 variant. For example, match the PSU-25 to PA66-25 for a 25W amplifier.

What voltage do I need for a tube power amp?

Most voltages required for London Power's tube power amp kits such as the PA66 -series require 500Vdc or less, fitting in well with available capacitors. The generic PSU for tube power amp (PSU-TPA) can be used with modern or traditional power transformers.

Do tube amps use SMPS?

There are quite a few tube amps that use SMPS (one of the sponsor vendor Siliconray actually had one for sale, don't know if he still does or not). Do a search on the forum and you will see a few examples, I built a small guitar amp using an off-the-shelf 12VDC, 5A SMPS, which powers the filaments and a small DC-DC converter (so 12VDC-300VDC).

RF solid state amplifier In Fig. 5 is shown an RF SSA with its main components. The RF power from the drive amplifier system is split (2) and distributed to n amplifier ...

A power supply consists of basically three elements - the power transformer, the rectifier and the filter capacitors. Optionally, you could use a line filter before the power transformer, and possibly some method of

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soft ...

But in reality that's not a problem because there are some more things to consider. First, tubes are not like integrated circuits with respect to power supply requirements. Unless your designs are pushing the tubes right ...

Description. London Power's QS-HV Quiet Supply for High-voltage Tube Amps provides a significant reduction of supply-borne noise and hum - typically 60dB from 50Hz to 120Hz. Supply noise is especially problematic for single-ended ...

Hello, I designed a SMPS that creates 0 audible noise in a tube ampifier. Originally this was a school project for a competition but things did not work out quite the way. ...

However, far too few people realize that to obtain good treble from a solid state power amp, one either starts or finishes with the power supply, just the same as for the bass. ... It is sometimes implied that fully electronically ...

The PS-SS, a new GlassWare power supply kit, is intended for use in solid-state power amplifiers. (Of course, it could be used in a tube hybrid power amplifier.)

Can I use a power transformer with centre tap output of 280V 0 280V for a solid state power supply. My B+ is 360V. Can I have a schematic diagram. Thank you.

Solid state diodes are not very good for high-fidelity purposes as they generate "peaks" (fast impulsions) that pass through the circuits. To reduce this, you can use "audio" diodes with much smaller peaks or bypass each ...

You'll have 35V to play with, say 30V after a few diode drops. Consider the output resistance of your power transformer with the standing current of the amp and work out how ...

Tube Power Supply A power supply should provide a precise voltage completely stabilized versus perturbations from any kind, coming both from the AC source or from the load. A preamp or an amp is like a tap put ...

Although a tube rectifier introduces more series resistance and loss than solid state diodes, the correct choice of a rectifier with proper filtering can mitigate this effect and produce a very stable supply (unless you want an instrument ...

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This is typically done using a rectifier, which can be a vacuum tube rectifier or solid-state rectifier. The rectifier allows current to flow in only one direction, converting the negative half cycles of the AC signal into positive half cycles. ...

WARNING: Tube/Valve amplifiers use potentially LETHAL HIGH VOLTAGES. ... When combining hollow state designs with solid state power, it's best to separate heater ...

I have found on ebay a solid state variable power supply which i am considering link below HV400 Variable High Voltage Power Voltage Regulator DIY Kit 50-300V 0.3A 30V ...

To make this touch safe, (exposed conductors) I'll need a relay, perhaps solid state. It has: 1. A high Vdc section, up to 550vdc at 100ma, that outputs to a stepped RC filter ...

So before amplifier losses are added the power supply needs to deliver 100 watts peak for a 50W RMS class AB amplifier. In 50/60Hz power supplies this peak power comes from the filter capacitors and some power ...

Granted some of these amps have as many as 8 diodes in the power supply. They are far cheaper than "vacuum tube" power transformers. The 8 diode amp makes 15 watts of ...

Regulated power supply for tube preamplifiers. Specially designed High Voltage Power Supply to fulfil requirements of Balanced Tube Preamplifier V6.4. This power supply has 4 outputs: dual anode supply regulated in range 160-310V ...

Web: <https://www.bardzyndzalek.olsztyn.pl>

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