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Subject: PS Regulation

Posted by [Manualblock](#) on Sun, 30 Jul 2006 23:08:39 GMT

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Is there anything to be gained by using tube diodes to build a regulation circuit for an SE amp?

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Subject: Re: PS Regulation

Posted by [Damir](#) on Wed, 02 Aug 2006 13:06:43 GMT

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IMO - "classic" (C)LCLC filter after (tube) rectifier has large ripple attenuation and a good regulation, especially that "average" current "draw" from SE amp is a pretty much constant. The most benefit from regulated supply is probably a very low output impedance (rel. high impedance from "classic" supply has influence on sound and even loss of power - PS imp. is in series with output tube). But, is this worth the hassle to build the (tube) regulated supply...hmm?!

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Subject: Re: PS Regulation

Posted by [Manualblock](#) on Wed, 02 Aug 2006 15:07:07 GMT

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Thanks Bud.

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Subject: Re: PS Regulation

Posted by [Damir](#) on Wed, 02 Aug 2006 19:31:11 GMT

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Another possible solution is using of BJT or Mosfet transistors in a simple regulator, in fact only a ripple filter/low imp. out device, with small voltage drop through it, say 10-20V.

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Subject: Re: PS Regulation

Posted by [Manualblock](#) on Wed, 02 Aug 2006 22:37:13 GMT

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There is a good circuit in BASDIY that uses LEDS to do exactly what you say. He uses it in a PP EL 84 amp.

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Subject: Re: PS Regulation

Posted by [SteveBrown](#) on Tue, 12 Sep 2006 13:47:40 GMT

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My favorite scheme is to use shunt regulation with a CCS on top of gas regulators. This is simple and extremely effective. I try to pass 2 -3 time the circuit current through the shunt. I've had this make a remarkable difference in the bass quality in particular. A shunt would be harder to do in an output stage, but easy in driver and preamp stages. I do bypass the gas tubes with a teflon cap, something around 0.1uf or so seems to do fine.

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