

## Re: linear PS's

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  - *Date:* Tue, 31 Jan 2006 06:32:36 -0500
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<snip>

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>I suggest you use the center tap of the secondary as common, with a  
>bridge rectifier across the 40 volts. Connect 2 storage capacitors in  
>series, with the positive end of one to the + output of the bridge and  
>the negative of the other to the - output of the bridge.

and the junction of the 2 caps to the center tap of the transformer  
which will be your common or ground.

> This should give you about positive and negative 28 volts, no load.

It cuts your max output voltage in half but gets you the + and - you  
want.

>Your LM317 regulator is fine for the positive output (with the reference divider  
>to the center tap). You need the negative version of the 317, and  
>LM337, for a symmetrical negative regulator.

>

>> One more thing... I was messing around monitoring the voltage and the  
>> output(of the regulator) seemed to fluxuate with 1/100th of a volt or 2 and  
>> at some points it was about 1/2 a volt or so. Is this normal? (I wasn't able  
>> to monitor the input voltage at the same but it seems to fluxuate too).

>

>Do you have a high frequency bypass capacitor (e.g. .1uF 50 V ceramic)  
>connected directly from the grounded end of the reference divider to  
>the regulator input, and a second one from the common to the regulator  
>output? If not, you may have an oscillating regulator.

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- *References:*

- ◆ *linear PS's*

- ◇ *From:* Abstract Dissonance

- ◆ *Re: linear PS's*

- ◇ *From:* John Popelish

Re: linear PS's

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