

## Re: 250mA voltage clamp

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-12/msg01458.html>

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- *From:* budgie <[me@xxxxxxxxxxxx](mailto:me@xxxxxxxxxxxx)>
  - *Date:* Mon, 12 Dec 2005 16:07:51 +0800
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On Mon, 12 Dec 2005 03:24:21 GMT, the.other.Jim@xxxxxxxxxxxx wrote:

>On Sun, 11 Dec 2005 13:40:32 -0800, "Walter Harley"

><[walterh@xxxxxxxxxxxxxxxxxxxxxxxx](mailto:walterh@xxxxxxxxxxxxxxxxxxxxxxxx)> wrote:

>>

>>And in answer to Jim's question: it takes about 300mA draw for the internal  
>>impedance of the supply to drop the voltage sufficiently. I'd rather avoid  
>>a shunt regulator if I can, so as to avoid unnecessary heating. The  
>>max-load condition is unusual and is expected (though not guaranteed) to  
>>last only a short time; 99% of the time the load is expected to be only 30mA  
>>or so.

>>

>

> OK, a DC-DC converter, buck/boost type between your source and  
>load would solve all your problems at 80% efficiency. And be much  
>easier to implement than some op-amp and pass element scheme.

Surely replacing the highly unregulated power supply would be easier still? I fail to see the point in spending time building a fix for a simple sub-assembly that has a problem, when another PSU would solve it.

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• *References:*

- ◆ [250mA voltage clamp](#)  
    ◇ *From:* Walter Harley
- ◆ [Re: 250mA voltage clamp](#)  
    ◇ *From:* the . other . Jim
- ◆ [Re: 250mA voltage clamp](#)  
    ◇ *From:* Fred Bloggs
- ◆ [Re: 250mA voltage clamp](#)  
    ◇ *From:* Walter Harley
- ◆ [Re: 250mA voltage clamp](#)  
    ◇ *From:* the . other . Jim

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