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Subject: 300B Power Supply Help

Posted by [rigma](#) on Fri, 20 Jan 2006 15:46:07 GMT

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I am building my second pair of Angela WE-91 mono blocks and am thinking of doing external power supplies this time. Everything else will be per schematic on the [www.angela.com](http://www.angela.com) site. I was thinking CLCLC 20uf, 10H 82ohm, 40uf, 10H 82ohm, 150uf with 5R4GYB rectifier. I also have 20, 30, 40, 50 & 100uf oil caps (motor run) actually the 150uf above is a 100 & 50uf in parallel. I have these caps available and am also willing to buy other chokes if needed. Thanks for any input you can offer on this design. The goal is to get it right the first time so if anyone can suggest improvements it would be appreciated. PS: I have the Angela universal Power Trannies 380-0-380 @ 200ma

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Subject: Re: 300B Power Supply Help

Posted by [Damir](#) on Fri, 20 Jan 2006 16:56:04 GMT

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You can use free PSUD2 program. I found some my messages about modelling PS with it:  
<http://audioroundtable.com/Tubes/messages/1397.html>  
<http://audioroundtable.com/Tubes/messages/1398.html>  
<http://audioroundtable.com/GroupBuild/messages/1314.html>  
<http://www.duncanamps.com/psud2/index.html>

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Subject: Re: 300B Power Supply Help

Posted by [paba](#) on Fri, 20 Jan 2006 17:21:06 GMT

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You can also follow the tutorial on PSUD II published in Bas Horneman's DIY magazine here...  
[http://www.basaudio.net/pubs/DIY\\_2005\\_5.pdf](http://www.basaudio.net/pubs/DIY_2005_5.pdf)  
cheers Paba

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Subject: Re: 300B Power Supply Help/Example

Posted by [Damir](#) on Sun, 22 Jan 2006 10:51:47 GMT

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Here`s a one quick example...

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Subject: Re: 300B Power Supply Help

Posted by [SteveBrown](#) on Mon, 23 Jan 2006 01:40:26 GMT

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Just wondering why power supplies on seperate chassis? I've tried this before and sorting out ground loops, finding appropriate connectors for the Ht, and the bulk of the extra chassis all made it seem less that worthwhile. I'd also ask why the Angela 91? I have made it (along with a dozen or more other 300B designs) and it always seemed less dynamic and a bit wooly to me. Have you tried other designs? While you didn't ask, I'll tell you what I've landed on as one of the best SE designs I've ever found... use a WE 417a, loaded with a 10k, 12w mills run about 10ma of current and 150v on the plate. Cap couple that to the 300b and presto! Fantastic amp!! Even better, do this with 2A3's, and/or replace the 10k with a good CCS and direct couple it. Power supply? I use cap input, one choke, a couple hundred uf's (10uf + 10H + 200uf) and you're good to go. I'll tell you, adding additional chokes and caps has been, in my experience (and verified with scope and loads of experiments), a waste of time and money. Anyway, just my 0.02 worth. YMMV..

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