
Subject: Darling 1626 PS suggestions--first design.
Posted by [Shane](#) on Wed, 08 Nov 2006 00:11:32 GMT
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Here are a couple of PS designs that Norris, Jef, and I have contemplated for the Darling amp I'm building. I have both of the chokes and some 25uF motor runs, but that's it for now. The first PSUD pic is using a Hammond 270DAZ trannie. The second choke loaded is using a 273X.

Subject: second design.
Posted by [Shane](#) on Wed, 08 Nov 2006 00:13:04 GMT
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.. I'm looking to get around 270V on the B+. and will be running a 5965 driver. 25-26mA on the 1626 and 4mA per side on the 5965.

Subject: Re: second design.
Posted by [Forty2wo](#) on Thu, 09 Nov 2006 04:28:02 GMT
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I vote # 2. As the current demands of the Darling are fairly low, try modeling with lower value, lower DCR, chokes. Say 4-7 h ...John

Subject: How about this
Posted by [Shane](#) on Thu, 09 Nov 2006 15:12:05 GMT
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Thanks John. The reason for the 10H chokes is because that's what I happen to have. LOL!!How about this. Use the 10H choke first with a 40uF cap, then branch off with individual 4H chokes and another 40uf cap per channel?Also, I've seen where some have put a very small value cap between the rectifier and PT secondaries? But obviously no way to model this in PSUD.

Subject: Re: How about this

Posted by [Forty2wo](#) on Fri, 10 Nov 2006 04:08:08 GMT

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What I had on hand. Those words loom large in my legend. The supply you propose will work well. As to the cap across the secondary. If it is a very small value, .1uf or so it is there to shunt power line hash. Not a bad idea at all. A larger value is a "cheater cap" used to tune the output voltage. A pure choke input filter will give you about 66% of your transformer secondary voltage. A cap input about 140%. As you increase the size of the cap you move from one mode to the other...John
