
Subject: 7 Pi impedance range
Posted by [PaulW](#) on Wed, 10 Feb 2010 21:43:41 GMT
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Hi Wayne,

I'm thinking of upgrading the output transformers on my Paramours and was wondering if you could give me an idea of the impedance range for th 7 Pi's (B&C DE250, Delta 10 & Omega pro). As the speakers are in for the long term it would be good to ensure the amps are the best match possible.

Regards

Paul

Subject: Re: 7 Pi impedance range
Posted by [Wayne Parham](#) on Thu, 11 Feb 2010 04:22:47 GMT
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Subject: Re: 7 Pi impedance range
Posted by [PaulW](#) on Thu, 11 Feb 2010 07:59:17 GMT
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That's great - thankyou

Paul

Subject: Re: 7 Pi impedance range
Posted by [Wayne Parham](#) on Fri, 12 Feb 2010 03:38:52 GMT
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It really is a nice impedance curve for tube amps, without any real peaks. It's scaled to show what

That's really good. Most loudspeakers have peaks of at least twice this high, and only the most well behaved speakers are even that.

tube amp. That's really important, because amps like those have relatively high output impedance - a couple ohms, typically - and this forms a voltage divider with the load.

When the load impedance fluctuates a lot, the voltage division proportions change between source and load, and this causes response fluxuations. A ten-fold change is pretty significant, and can be seen in the response. But a two-fold change is nothing. It's rare to find a speaker that's as flat as that, but it's an important attribute to consider when using low-power SET amps.

Subject: Re: 7 Pi impedance range
Posted by [PaulW](#) on Fri, 12 Feb 2010 08:05:11 GMT
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Indeed it does look very nice - which means I'm definitely going to replace the Paramour's output transformers with some MagneQuest magic. Thanks for your help.

Paul

Subject: Re: 7 Pi impedance range
Posted by [Wayne-o](#) on Sat, 13 Feb 2010 14:18:29 GMT
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This looks like it is right in line with what I know about sound reproduction. Great !!!
