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Subject: Re: Powering my PI Speakers

Posted by [Wayne Parham](#) on Fri, 17 Feb 2012 21:51:14 GMT

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A few thoughts, in no particular order:

I'd run each of the mains on their own channels, and I'd run the surrounds in series / parallel if several were to be combined on each channel. Most prosound amps are pretty tolerant of their limit.

It looks like you are planning to run each speaker on its own amp, which is even better than a series / parallel arrangement. I see no issues doing this.

the customary peaks at resonance, but they're mild. See the chart at the link below:

Looks like what you have is a pretty conservative setup, with no amp being pushed too hard. All are well rated both in terms of impedance and power overhead.

If you were planning to push the system hard, I would suggest that you high-pass the mains and surrounds at their Helmholtz frequencies. But from the power levels you're talking about, none will be pushed hard. The amp will hit a clipping limit before the speakers hit their limits. That, of course, would cause more HF energy than normal, which would create thermal issues on its own. But that's another topic.

My expectation is that you won't be pushing the system to its limits, and if you find that you are, then you'll probably add speakers as well as amps. What you have looks pretty well matched, and should work well within its limits.