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Subject: Re: Powering my PI Speakers

Posted by [Wayne Parham](#) on Fri, 17 Feb 2012 22:58:37 GMT

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I think matching amp power to speaker thermal limits makes sense. However, there is a school of thought that says amps should be rated higher, because of bandwidth issues. The idea is that if the amp is near the rails, then the complex waveform has frequency components that are individually below the rails. Said another way, if the content has a low frequency that is near clipping - say maybe 80% below - and then another much higher frequency is present too - say at 50% power, then the peak signal is far above the rails, driving the amp to clipping. Remember that the high frequency content rides the low frequency content, sort of modulated by it.

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