Subject: 3 Pi subs paralleled from plate amp
Posted by skywave-rider on Sat, 14 Jan 2012 19:22:32 GMT
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Wayne,
I am considering building a pair of 3 Pi subs to flank mains. I would like to put a plate amp in one, and parallel the amp out to the other sub.

These are the amps I would consider:
http://www.parts-express.com/pe/showdetl.cfm?Partnumber=300-750
or:
http://www.parts-express.com/pe/showdetl.cfm?Partnumber=300-752&FTR=bash%20500

Some might say it's not a lot of power, but this would be for portable hi fi use and not a high SPL application.

What do you think about the impedance load?

Subject: Re: 3 Pi subs paralleled from plate amp
Posted by Wayne Parham on Sat, 14 Jan 2012 20:59:57 GMT
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I think it's probably a bit too much load to parallel them. That would put the impedance down at

right signal to the right flanking sub, the left signal to the left.

If you run a more distant sub or two, summing the signal is fine but flanking subs are better when driven with a low-passed version of the signal sent to the mains they're flanking. They are run a little bit high, after all, just barely reaching into the lower midrange. That's why I like to use a second-order filter too, so the blending is gradually reduced, starting around 100Hz. With a gentle slope, there is still a fair amount of energy in the 100Hz to 200Hz octave, enough to smooth the modes in that region. That's really the point of the flanking sub approach.

Here's another plate amp that might be worth considering:
RBH CA-200 Plate Amp

Subject: Re: 3 Pi subs paralleled from plate amp
Posted by skywave-rider on Sat, 14 Jan 2012 21:41:29 GMT
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Thanks, Wayne. In this case I might look into a used stereo power amp as I have an active

rackmount low pass if needed. But the plate amps are more convenient.