

Re: audio amplifiers: +/- X VDC vs 0-X VDC

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- *From:* stratus46@xxxxxxxxxx
 - *Date:* Tue, 25 Sep 2007 12:30:44 -0700
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On Sep 25, 11:33 am, mrdarr...@xxxxxxxxxx wrote:

I've noticed some audio amplifiers, like this one, need +/-

35VDC:<http://www.national.com/mpf/LM/LM3886.html>

and some amplifiers are happy with 9 to 18VDC, with respect to
ground:<http://focus.ti.com/lit/ds/symlink/tpa1517.pdf>

Besides the obvious difference in power, how come one needs +/-
power,

and the other is happy with 0-X power?

In the second case, for "no audio signal", is the speaker suspended
halfway between rest and max, resulting in only half of the
available

speaker movement range?

Michael

Split supplies don't require an output capacitor on the amplifier.
Those can get big and expensive for high power levels.

GG

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