
Subject: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [Deej \[1\]](#) on Sun, 27 Aug 2006 22:19:06 GMT

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One of my clients may be swapping me a pair of NS10m's and a power amp for some studio time. He's also got a Yamaha P2700 power amp and, I think a P2201 as well.

I've been out of the power amp loop for many years as I was using powered monitors before I switched to NHT A-20's which have a proprietary power amp.....sooo.....what's a good amp for NS10M's? I don't want to underdrive these and since they are *rated* at 150, I figure I'm going to need 250 into 8ohms to get the goods out of them.

I think both of these power amps will provide this, and then some.....but both the P2201 and P2700 have big fans IIRC. Are these especially loud? I guess I could power this from the machine room, but it would be much more convenient if it was close by. I'll probably need to run it from another circuit in the house somewhere too (PITA.....can you say HUMMMM) since the 15 amps on the studio circuit is pretty well gobbled up by the stuff I'm running during a mix if I use a lot of outboard. I've got a Henry Engineering Matchbox that *might* be able to solve this problem though.

I'll likely be trying them both, but I wanted to run this by y'all to see if there were any *gotchas* or if I should be looking at a different power amp.

Thanks,
Deej

Thanks,

Deej

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [Dubya Mark Wilson](#) on Mon, 28 Aug 2006 00:48:06 GMT

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Yes on the fans. Loud enough to be a problem in a CR.

M

"DJ" <animix_spam-this-ahole_@animas.net> wrote in message
news:44f21ae0@linux...

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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [Deej \[1\]](#) on Mon, 28 Aug 2006 03:54:50 GMT

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Back in the late 70's one of my buddies got an Adcom GFA-1 amp. I recall driving his big Klipsch towers with these and we were just floored by the punch and fidelity of this little amp. I just picked one of these up for a good price on EBay. If I don't like it, I have another use for it, but if it's got what I seem to remember it having, this little brick may be all I need. It's rated 200WPC into 8 ohms and IIRC, that 200WPC rating may actually be a bit conservative. It's got a fan too, but I'll be keeping this pup in the machine room anyway.

"Dubya Mark Wilson" <mark.xspam@avidrecording.com> wrote in message news:44f23bc5@linux...

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> M
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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [John Macy](#) on Mon, 28 Aug 2006 03:56:25 GMT

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I run my NS10's on a 2201, and it makes a perfect mate for them. And there are no fans on the 2201, nice, quiet and powerful. The 2200 had the meters on the front, and I always heard that there was something in the meter circuit that messed with the sound. The 2201 is the same amp sans meters...

Best amp I ever heard on them, and believe me, I tried a lot of them...

"Dubya Mark Wilson" <mark.xspam@avidrecording.com> wrote:

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>"DJ" <animix_spam-this-ahole_@animas.net> wrote in message

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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [Deej \[1\]](#) on Mon, 28 Aug 2006 03:57:02 GMT
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Thanks John. Good info there. These 2201's are going for around \$250.00 these days. Not bad.

Deej

"John Macy" <spamlessjohn@johnmacy.com> wrote in message
news:44f26969\$1@linux...

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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [Neil](#) on Mon, 28 Aug 2006 04:08:26 GMT

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If you can find an old/used Macintosh tube amp, get that for the NS-10's - good combo there - less harshness & ear fatigue with those speakers that way, and you don't need to tape tissue over the tweets. Or a used Rotel might work, too.

Neil

"DJ" <animix_spam-this-ahole_@animas.net> wrote:

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>some studio time. He's also got a Yamaha P2700 power amp and, I thnk a P2201
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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [gene lennon](#) on Mon, 28 Aug 2006 04:11:46 GMT

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"DJ" <animix_spam-this-ahole_@animas.net> wrote:

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I used a 2201 on my NS10s with excellent results. I also liked MacIntosh
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match. A dedicated 20A circuit is always a good idea. (ROMEX 12/3 NM-B minimum).

Gene

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [John Macy](#) on Mon, 28 Aug 2006 04:22:53 GMT

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I'm with Gene--I tried Macs, Brystons, Hot House, Hafler and others, and the 2201 still smoked them. I heard some time ago about a mod that made them even better--anyone hear of this???

"gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

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>"DJ" <animix_spam-this-ahole_@animas.net> wrote:

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>Gene

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [Deej \[1\]](#) on Mon, 28 Aug 2006 05:18:25 GMT

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I've always been partial to Adcoms. Very open sounding with smooth mids. I was sort of thinking about the situation with the mids in the NS-10M's when I decided to pick this one up. I don't know how the GFA-1 will compare to the later 545 (100WPC) or 555. The 555 also has 200WPC, like the GFA-1. I think the GFA-1, being their first power amp, may be a bit of a minimalist design, which is what (I think) I want. I'll be strapping a PVC between the unbalanced outputs of my DAC-1 and the Adcom since it doesn't have any means of attenuation.. This one is coming from an estate and according to the seller, it was used on a regular basis so hopefully the caps are still in good shape and haven't dried out. I'll A/B it against the 2201 (if he has a 2201.....I think his second amp is a 2201 IIRC)

Deej

"John Macy" <spamlessjohn@johnmacy.com> wrote in message
news:44f26f9d\$1@linux...

>

> I'm with Gene--I tried Macs, Brystons, Hot House, Hafler and others, and
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> "gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

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> > "DJ" <animix_spam-this-ahole_@animas.net> wrote:

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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [gene lennon](#) on Mon, 28 Aug 2006 05:30:41 GMT
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>"DJ" <animix_spam-this-ahole_@animas.net> wrote:

>>15 amps on the studio circuit is pretty well gobbled up by the stuff I'm
>>running during a mix if I use a lot of outboard.

Several times over the years I have heard people say that an amp/monitor combination that I thought should sound good was garbage, and more than once I found that the power amps were current starved. This can reduce headroom dramatically and suck the life and low frequency energy out of a monitor system.

Theoretically a breaker should trip if the amps are trying to draw more current than the breakers are rated for, but in reality, short calls for current are not long enough to trip most breakers which are designed to heat up slowly before going open.

Most SR engineers are familiar with current starved amp problems, but I have

A dedicated line from the main panel (home run) is the best approach. Most

for 30 amps at peaks. This is also enough to risk electrical fires if you are running off a normal residential 15-Amp line that is shared with other devices.

A dedicated AC run should also help minimize ground loop issues in a well-designed balanced audio studio.

Gene

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [dc\[3\]](#) on Mon, 28 Aug 2006 13:27:03 GMT

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Hi Gene,

One thing you said caught my eye:

"gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

>Most

>for 30 amps at peaks.

Actually, amps use far less current than this, which is why you see poorly engineered sound systems, with 8 amplifiers all running off one 15-amp circuit.

The QSC website has a page where you can download a document listing the current draw of all their amps.

http://www.qscaudio.com/support/technical_support/current_consumption_heat_loss.htm

For a PL236 (one of their most powerful amps, at 725w/ch. into 8ohms) the idle current is only 1 amp and the pink noise level (1/8 power) that best represents cranked music with light clipping only draws 7.8 amps. A PL218 with 310w/ch into 8ohms, idles at .7 and draws 4.9 amps at cranked levels.

A dedicated line (preferably 3-4 of them) is a great idea, and they should be isolated-ground, and the panel should be securely earth-grounded as well. IG (isolated ground) means a real green wire in the pipe for each circuit, and no use of the conduit itself for ground.

best,

DC

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [DC](#) on Mon, 28 Aug 2006 13:38:08 GMT
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BTW, the spec plate on the back of amps listing the voltage and current draw, is complete rubbish, and represents a total dissipation rating for electricians and lawyers to CYA (cover their butts).

Amps never, ever use that much current to make music. Years ago, we knew there was a huge discrepancy between the plate rating and the actual draw, and some of the company techies would tell you what the amps actually drew, but not "for the record".

This silliness resulted in new systems going in with a 20-amp circuit for each power amp (that never drew more than 5 amps each, and usually more like 1.5) so everyone had their legal butts covered.

Today, several of the manufacturers actually publish the data on current use in the real world. It's about time.

DC

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [Wayne Carson](#) on Mon, 28 Aug 2006 16:34:26 GMT
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DJ,

I'm not familiar with the yammies but I've used my NS-10s with an Alesis RA-100 amp since '96. Both are supposed to be flat across the board. The amp is clean and quiet (no fan, uses rear fins) but per John Macy's postings (yours 8/28 and 8/19-20 under NS-10m) I may be underpowered. My NS-10s carry mids so I slightly boost the highs and lows (playback thru a Mackie 1604vlz) for a more pleasing sound w/o altering the mix much. NS-10s are IMO very good to hear bit parts and pretty realistic to what you'll get except the lows. I added a power'd sub to fatten the feel. Prior to the sub I really pushed the lows but the mix was boomy on every home/car stereo I put it on.

Wayne

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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [gene Lennon\[3\]](#) on Tue, 29 Aug 2006 00:12:14 GMT
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"DC" <dc@spammersinhell.com> wrote:

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>
>
>best,
>
>DC

DC,

into a pissing match here, but just in case you have left others with the impression that this is a non-issue, I need to make a few points.

It is true that many modern power amps have changed to switching power supplies and as a result RMS power usage can be closer to 4 or 5 amps for a 200/side power amp.

QSC was one of earliest and remains one of the leaders in high efficiency power amps. The chart you refer to reflects that efficiency.

Power Factor Correction in its power supply. PFC can reduce the amplifier's average AC current consumption by as much as 40%, and peak requirements by

From:

http://mixonline.com/mag/audio_whats_next_power/

Many older amps, particularly Crown DC amps, but also many others, do not have high efficiency power use, and most large amps still spec 20 amps (even

But the real issue is not arguing over 6 amps or 12 amps when running hot. The point I was trying to make was about the need to supply proper power to the amp.

Here are a few points I hope we all can agree on.

1. Power starving an amp will reduce its dynamic range.
2. A dedicated supply line will give maximum headroom and will have low resistance on the AC line. Both are beneficial to maximizing critical monitor amplification.
3. Proper AC wiring is not sexy like a new preamp, but it is generally a

place to save money. Large consoles, power amps, multi-track recorders and other big power consumers should have dedicated lines that are designed with reasonable headroom, for safety and sound quality.

Talk to Stephen Morris at Crown or the technical staff at the manufacturer of your power amps or powered monitors and you will get similar recommendations or talk to any well know studio designer or the maintenance head at ANY large studio..They will all tell you the same thing. We Need More Power, Captain!

Gene

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [Deej \[1\]](#) on Tue, 29 Aug 2006 02:27:16 GMT

[View Forum Message](#) <> [Reply to Message](#)

This is a multi-part message in MIME format.

-----=_NextPart_000_008E_01C6CAE0.5A7463A0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

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;o)

"gene Lennon" <glennon@NOSP.com> wrote in message = news:44f3865e\$1@linux...

>=20

> "DC" <dc@spammersinhell.com> wrote:

> >

> >Hi Gene,

> >

> >One thing you said caught my eye:

> >

> >"gene Lennon" <glennon@NOSPmyrealbox.com> wrote:

> >>Most

> >>200w per channel power amps will draw 20 amps when cruising and will = "call"

> >>for 30 amps at peaks.=20

> >

> >

> >Actually, amps use far less current than this, which is why you see

> >poorly engineered sound systems, with 8 amplifiers all running off

> >one 15-amp circuit.

> >

> >The QSC website has a page where you can download a document

> >listing the current draw of all their amps.

> >

> =

> http://www.qscaudio.com/support/technical_support/current_consumption_heat_loss.htm

> >

> >For a PL236 (one of their most powerful amps, at 725w/ch. into
> >8ohms) the idle current is only 1 amp and the pink noise level
> >(1/8 power) that best represents cranked music with light
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> I have great respect for your knowledge and I certainly don't want to =
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> as much as 80%."=20
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> Gene
>

-----=_NextPart_000_008E_01C6CAE0.5A7463A0

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Content-Transfer-Encoding: quoted-printable

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old house=20
has electric wall heaters in every room. They are all on 20amp circuits =
and are=20
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<DIV><BR></DIV></FONT>
<DIV><FONT face=3DArial size=3D2>"gene Lennon" &lt;</FONT><A=20
href=3D"mailto:glennon@NOSP.com"><FONT face=3DArial=20
size=3D2>glennon@NOSP.com</FONT></A><FONT face=3DArial size=3D2>&gt; =
wrote in message=20
```

news:44f3865e\$1@linux...</DIV>>
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href=3D"http://mixonline.com/mag/audio_whats_next_power/"><FONT = face=3DArial=20

size=3D2>http://mixonline.com/mag/audio_whats_next_power/
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</BODY></HTML>

-----=_NextPart_000_008E_01C6CAE0.5A7463A0--

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [gene lennon](#) on Tue, 29 Aug 2006 02:46:15 GMT
[View Forum Message](#) <> [Reply to Message](#)

"DJ" <animix_spam-this-ahole_@animas.net> wrote:

>
>
>Hmmm.....welllll.....letsee here. This old house has electric wall =
>heaters in every room. They are all on 20amp circuits and are no longer
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gene

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [Deej \[1\]](#) on Tue, 29 Aug 2006 03:00:52 GMT
[View Forum Message](#) <> [Reply to Message](#)

Well, I just thought I'd ask. It's a rental property and the fewer *mods* I do, the better.

"gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message
news:44f3aa77\$1@linux...

>
> "DJ" <animix_spam-this-ahole_@animas.net> wrote:
> >
> >
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> gene

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [Dubya Mark Wilson](#) on Tue, 29 Aug 2006 03:04:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

Totally off-track, but the broken "leg" lamp is a much better scene.

W

"gene Lennon" wrote:

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> McGavin
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> gene

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [Dubya Mark Wilson](#) on Tue, 29 Aug 2006 03:07:28 GMT
[View Forum Message](#) <> [Reply to Message](#)

Wayne, to each his own but I don't think I've heard but just a few amps that
were worse for referencing. I wonder what your tens would sound like,
comparatively speaking, with some other amps.

W.

"Wayne Carson" <carson_wayne@msn.com> wrote in message
news:44f3198f@linux...

> DJ,

>

> I'm not familiar with the yammies but I've used my NS-10s with an Alesis
> RA-100 amp since '96. Both are supposed to be flat across the board. The
> amp is clean and quiet (no fan, uses rear fins) but per John Macy's
> postings (yours 8/28 and 8/19-20 under NS-10m) I may be underpowered. My
> NS-10s carry mids so I slightly boost the highs and lows (playback thru a
> Mackie 1604vlz) for a more pleasing sound w/o altering the mix much.
> NS-10s are IMO very good to hear bit parts and pretty realistic to what

> you'll get except the lows. I added a power'd sub to fatten the feel.
> Prior to the sub I really pushed the lows but the mix was boomy on every
> home/car stereo I put it on.
>
> Wayne
>
>
> "DJ" <animix_spam-this-ahole_@animas.net> wrote in message
> news:44f21ae0@linux...
>> One of my clients may be swapping me a pair of NS10m's and a power amp
>> for
>> some studio time. He's also got a Yamaha P2700 power amp and, I think a
>> P2201
>> as well.
>>
>> I've been out of the power amp loop for many years as I was using powered
>> monitors before I switched to NHT A-20's which have a proprietary power
>> amp.....sooo.....what's a good amp for NS10M's? I don't want to
>> underdrive these and since they are *rated* at 150, I figure I'm going to
>> need 250 into 8ohms to get the goods out of them.
>>
>> I think both of these power amps will provide this, and then
>> some.....but
>> both the P2201 and P2700 have big fans IIRC. Are these especially loud? I
>> guess I could power this from the machine room, but it would be much more
>> convenient if it was close by. I'll probably need to run it from another
>> circuit in the house somewhere too (PITA.....can you say HUMMMM) since
>> the
>> 15 amps on the studio circuit is pretty well gobbled up by the stuff I'm
>> running during a mix if I use a lot of outboard. I've got a Henry
>> Engineering Matchbox that *might* be able to solve this problem though.
>>
>> I'll likely be trying them both, but I wanted to run this by y'all to see
>> if
>> there were any *gotchas* or if I should be looking at a different power
>> amp.
>>
>> Thanks,
>> Deej
>>
>> Thanks,
>>
>> Deej
>>
>>
>
>

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [gene lennon](#) on Tue, 29 Aug 2006 03:17:23 GMT

[View Forum Message](#) <> [Reply to Message](#)

"Dubya Mark Wilson" <mark.xspam@avidrecording.com> wrote:

>Totally off-track, but the broken "leg" lamp is a much better scene.

>W

Gene

>

>"gene Lennon" wrote:

>> There is a scene in Jean Shepherd's "A Christmas Story" where Darren

>> McGavin

>> is playing around with an extension-cord-rats-nest that comes to mind.

>> gene

>

>

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [Dubya Mark Wilson](#) on Tue, 29 Aug 2006 04:48:27 GMT

[View Forum Message](#) <> [Reply to Message](#)

You'll shoot your eye out!

W.

"gene Lennon" <glennon@NOSPmyrealbox.com> wrote in message
news:44f3b1c3\$1@linux...

>

> "Dubya Mark Wilson" <mark.xspam@avidrecording.com> wrote:

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>

> I'd have to go with the tongue on the pole.

> Gene

>

>

>>

>>"gene Lennon" wrote:

>>> There is a scene in Jean Shepherd's "A Christmas Story" where Darren

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>>> gene

>>

>>

>

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [DC](#) on Tue, 29 Aug 2006 05:50:40 GMT

[View Forum Message](#) <> [Reply to Message](#)

"gene Lennon" <glennon@NOSP.com> wrote:

>but just in case you have left others with the
>impression that this is a non-issue, I need to make a few points.

Wait a minute. There are 2 seperate point to be made here.
Just because amplifiers do not draw 20amps at idle, does not mean
that they do not get current starved at high levels with lots of
transients.

You are absolutely right about that, but the spec you gave on
current draw was simply way off. BTW, it was Crown who first
got me started learning about this, and they were the ones who
would not speak on the record, ten years ago.

Their Macro-tech amps, which have power transformers, (I know,
I picked one up recently!) have specs for current draw on their
website at:

http://www.crownaudio.com/amp_htm/ampinfo.htm

(scroll down) Even the mighty MA-3600VZ with 1120W/side into
8ohms, only draws 10.3 amps at full power with "full range rock
music". The figure of 20amps at idle is simply wrong for any
amp in current production, regardless of power supply.

As I said, none of that means that amplifiers don't sound better
with stouter AC, they do. Personally, I think if studios installed
better AC service, they would never sell another "magic power
cable" again. You know, those 1000.00 fancy power cables that
are supposed to improve your audio? Spend the money on your
AC and get a good amplifier instead.

We really don't disagree here, you simply got a spec wrong.
No biggie, as far as I am concerned.

>Many older amps, particularly Crown DC amps, but also many others, do not
>have high efficiency power use, and most large amps still spec 20 amps (even

See, this is where so many, (even seasoned pros like yourself) get this wrong. The DC series amps will never ever draw 20 amps at idle. We think that because the spec plate says so. The (Crown) engineer I had that conversation with 10 years ago said that the spec is derived from the total dissipation rating of the output devices, and no "the amp will never draw that", nor will there be a fire, which is why so many cheapskate club owners are still running racks of Crowns to this day, off of one 15amp circuit, and nothing catches fire. Ever. Do they sound as good as they could? No. But that plate rating means *nothing* zero, zilch, nada, as far as actual current draw.

I will be happy to put a Fluke current meter on any DC series amp you can name. (and no sneaking some tubes in there either!)

>But the real issue is not arguing over 6 amps or 12 amps when running hot.
>The point I was trying to make was about the need to supply proper power
>to the amp.

Agreed.

>Here are a few points I hope we all can agree on.

>

>1. Power starving an amp will reduce its dynamic range.

>2. A dedicated supply line will give maximum headroom and will have low resistance

>on the AC line. Both are beneficial to maximizing critical monitor amplification.

>3. Proper AC wiring is not sexy like a new preamp, but it is generally a

>place to save money. Large consoles, power amps, multi-track recorders and

>other big power consumers should have dedicated lines that are designed with

>reasonable headroom, for safety and sound quality.

Bang-zoom! Home run.

best,

DC

Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?

Posted by [EK Sound](#) on Tue, 05 Sep 2006 15:39:17 GMT

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In the older Yamaha gear, there were several Bi-Polar electrolytics in the audio path that should be replaced regardless. This will improve the low end response dramatically. They are usually located just before the buffer amps. Look for "BP" on the case... and replace with as close a value as you can find. If you can't find Bi-Polar caps, you can make them out of two standard electrolytics back to back (the caps will have to have double the value you want to end up with).

David.

DJ wrote:

> I've always been partial to Adcoms. Very open sounding with smooth mids. I
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> Deej

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> "John Macy" <spamlessjohn@johnmacy.com> wrote in message
> news:44f26f9d\$1@linux...

>

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Subject: Re: Anyone familiar with the Yammy P2201 or P2700 power amp?
Posted by [John Macy](#) on Tue, 05 Sep 2006 20:12:44 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thanks, Dave. As usual, you are an amazing source of information... :)

EK Sound <askme@nospam.com> wrote:

>In the older Yamaha gear, there were several Bi-Polar electrolytics in
>the audio path that should be replaced regardless. This will improve
>the low end response dramatically. They are usually located just
>before the buffer amps. Look for "BP" on the case... and replace with
>as close a value as you can find. If you can't find Bi-Polar caps,
>you can make them out of two standard electrolytics back to back (the
>caps will have to have double the value you want to end up with).

>
>David.

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