
Subject: Re: Horn loaded Corona Build
Posted by [dawiipgh](#) on Sun, 24 May 2020 13:45:19 GMT
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Hi Wayne,

I've been searching through the FAQ, threads and other website locations. I found the performance data of the 4 Pi speakers:

<https://www.pispeakers.com/Measurements/fourPi.html>

Your note at the bottom states that "Measurements were taken at a distance of 10 feet from the baffle and drive voltage was 8.62vrms. This is equivalent to 2.83v/M and 1W/1M values since

Interpreting the graph, it looks like the 4 Pi speakers clock in around 98-99 dB/W/1M. This is incredibly efficient!

I was considering purchasing an integrated Amp from Yamaha to power the 4 Pi speakers.

https://usa.yamaha.com/products/audio_visual/hifi_components/a-s301/

60 watts x 2 channels into 8 ohms (20-20,000 Hz) at 0.019% THD

This should be able to provide ample power to drive these speakers. A quick calculation taking into account 99 dB/W/1M efficient speakers and 60 Watts of Power at 8 feet listening distance in a room with speakers positioned ~2 ft from the walls gives a an estimated SPL of 115 dB. This is more than enough.

My question comes to what plate amp to use for the flanking sub. I believe I read that the driver for the sub is the Eminence Lab 12 in a large ported box tuned to 20Hz

https://www.eminence.com/speakers/speaker-detail/?model=LAB_12

I was considering the Bash 300S or the Bash 500S.

<https://www.parts-express.com/bash-300s-digital-subwoofer-plate-amplifier-300w-rms--300-750>
or

<https://www.parts-express.com/bash-500s-digital-subwoofer-plate-amplifier-500w-rms--300-752>

I can't seem to find an amp that the second order roll off that is discussed here.

Any plate amp suggestions or guidance is much appreciated.

Thanks!

dawiipgh
