# **CLASS A AMPLIFIERS**



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In the Class A amplifier the conduction angle is a full 360 o or 100% of the input signal while in other amplifier classes the transistor conducts during a lesser conduction angle.

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# **Amplifier Classes and the Classification of Amplifiers**

Class D Amplifier A Class D audio amplifier is basically a non-linear switching amplifier or PWM amplifier.

Class-D amplifiers theoretically can reach 100% efficiency, as there is no period during a cycle were the voltage and current waveforms overlap as current is drawn only through the transistor that is on.

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Therefore while a class A voltage amplifier might be expected to have a collector voltage of about half supply, a class A power amplifier will have a DC collector voltage approximately equal to the supply voltage (+12V in Fig. 5.2.2) and because of the transformer action, this allows a voltage swing of 12V above and below the DC collector voltage, making a maximum peak to peak signal voltage (V pp) available of 24V.

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## **Class A Power Amplifiers tutorialspoint com**

We have already come across the details of transistor biasing, which is very important for the operation of a transistor as an amplifier. Hence to achieve faithful amplification, the biasing of the transistor has to be done such that the amplifier operates over the linear region.

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# Audio Amplifier Classes A A B D G and H What are

An example of a Class A/B circuit (left; sourced from Wikipedia) and the Emotiva XPA-1L Class A/B amplifier that operates in pure Class A mode up to the first 35W (right). Class G & H Another pair of designs engineered with an eye towards improved efficiency, technically speaking neither Class G nor Class H amplifiers are officially recognized.

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### Class A B AB D H Audio Amplifiers Explained

Ever read audio equipment marketing literature and not know what the heck they are saying? Class Ahuh? Class D? See links to more information below.

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# **CLASS A POWER AMPLIFIER**

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