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(Watt) (Voltage)

Power Amp

A power amplifier is a device that amplifies audio signals, which can be at consumer-level or line-level, into speaker-level signals, allowing them to drive speakers. In other words, a power amplifier takes audio signals composed of voltage and transforms them into power, measured in watts, to drive speakers.

- Preamp: A device that amplifies instrument-level or microphone-level signals into consumer-level or line-level signals.
- Power Amplifier: A device that amplifies consumer-level or line-level signals into speaker-level signals.
- Headphone Amplifier: A device that amplifies consumer-level signals for use with headphones.

Amplifier Class

```
Class "classify : ."
```

Class .

Class-A

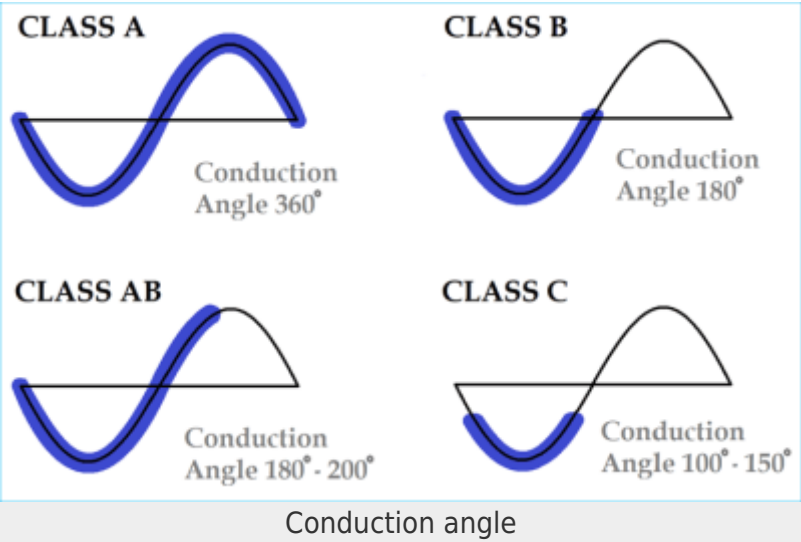
Class-A

Class-A

Class-AB

Class-D

가 .



Class A

DC

, DC

2)

Class B

+ + DC

Class-A DC 가

+ -

2

pull

, - - DC

3)

Class-B

, Push-

3)

Class AB

Class-A

2

Push-Pull

+ + DC

4)

Class-B

Class-AB

, - - DC

+

4)

Class-AB Class-A Class-A Class-AB

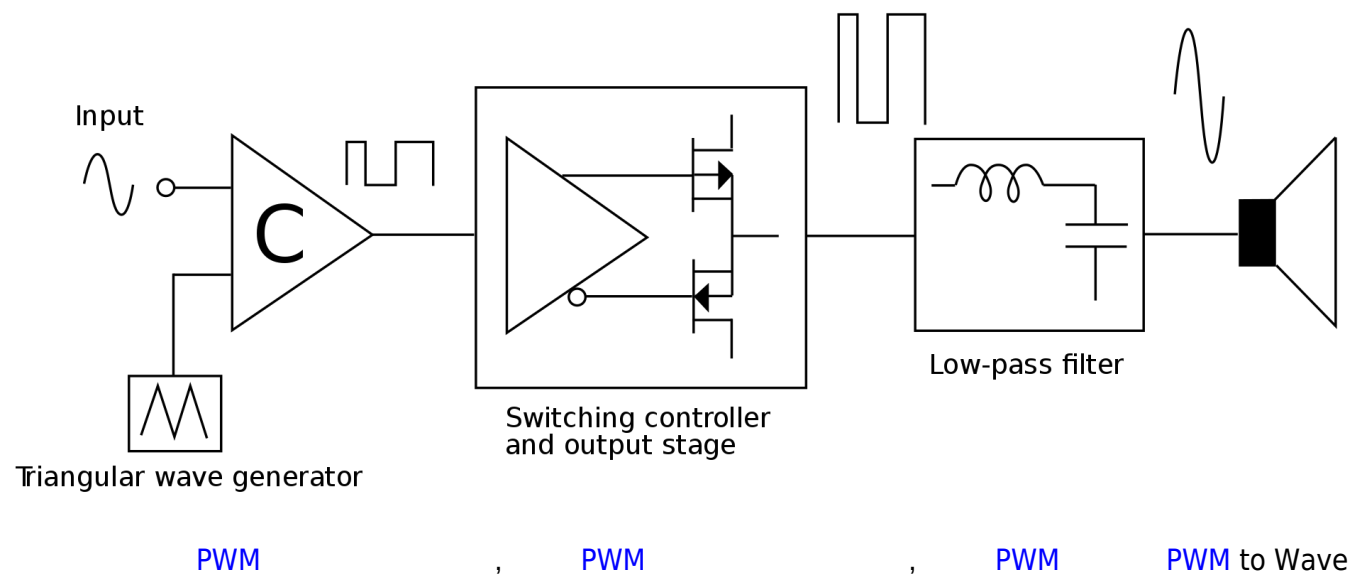
0V

가

Class-A Class-B

5)

Class D



Class-D SMPS()

, PWM

PWM

가 , PWM 가 6)

PWM

PWM PWM 가 가 ,

PWM(PCM 가 ?), Class-D(D?Digital?) “ “

가 , Class-D Class-D D/A

가 Class-D

9) , SR, PA 7) 8)

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1)

A 가 D 가 . Class-A A .

2)

Single ended, Vox AC15, Vox AC30

3)

+ - DC .

4)

5)

Marshall, Fender

6)

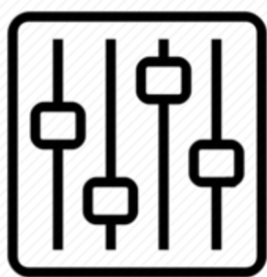
7)

, Hi-Fi

8)

가

9)



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