

# Ac and dc voltage difference

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In today's post, we will have a detailed look at both AC and dc voltages with a detailed comparison of them to find their differences according to their related parameters. So let's get started with the Difference Between AC & DC Voltage.

In the world of electricity, two primary types of current dominate: Alternating Current (AC) and Direct Current (DC). These currents, with their distinct characteristics and applications, play a vital role in powering our modern world. But what sets them apart? How do they behave, and where do they find their respective uses? What is the difference between AC and DC?

This comprehensive article aims to shed light on the fundamental differences between AC and DC currents. We will explore their behaviors, generation methods, transmission capabilities, and applications across various industries. Whether you're an electronics enthusiast, a student, or simply curious about the inner workings of electricity, this guide will provide you with a solid understanding of AC and DC currents.

The AC current also known as Alternating Current changes its polarity and magnitude periodically and continuously with respect to time. The AC current can be produced with an alternator that produces the alternating current.

During the upward stroke, the water within the pipe moves in a clockwise direction. Conversely, during the backward stroke, the water displaces in an anticlockwise direction. Consequently, the direction of water flow changes periodically as the piston oscillates back and forth.

Every AC waveform has a divider line or called the zero voltage line that divides the waveform into two halves as the AC current changes the magnitude and direction periodically so on every complete cycle it reaches zero volts.

The total amount of time taken by a waveform to repeat itself or to repeat its one cycle is called the time period. You can also say the total amount of time taken by the waveform to complete its one complete cycle is called the time period.

The DC current also known as Direct Current is a unidirectional flow of current or electric charge unlike AC it does not change the magnitude and polarity with time. The DC current has constant magnitude and direction and as the direction and magnitude not changes so the frequency of the DC current is zero. The electrons in DC current flow from high electron density to low electron density.

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