

Formal Lab Report: Electric Transformer

Abstract

A device designed to increase or decrease AC voltages is called an electric transformer. Electrical transformers are designed to follow the principle of mutual electromagnetic induction, in which two coils share a single magnetic field between them. Part one of the experiment was to test the iron core efficiency in maintaining voltage and reducing voltage loss. Part two of the lab recorded the ratios of the step-down transformer and compared them to the ideal transformer turn ratio. The turn ratio was found to be 0.25, the peak voltage ratio 0.194, and the peak power ratio at 52%. The same recording process was executed for the step-up transformer in Part three, and the same outcome was found: a significantly low peak voltage at 2.787 and peak power ratio at 39% compared to the turn ratio. These values measure the efficiency of power of each transformer, where 50% would be considered ideal. The higher power ratio for the step-down transformer is due to stepping-down too much, providing too much to the current and increasing power. The opposite can be said for the step-up transformer, or perhaps the low power ratio is due to load and core loss. Through this lab, the relationship between current and voltage was reanalyzed and, placed into the context of transformer manipulation, was used to observe how primary and secondary coils make the transformer.

Introduction

An electrical transformer is a device that can manipulate the voltage of an AC circuit using the theory of mutual induction to transfer energy from one circuit to another. Mutual induction is when two individual coils share the same magnetic field but are otherwise not connected to one another. When a certain voltage is applied to the first coil, usually deemed the primary coil, that changing current induces a level of EMF. The changing EMF produces a magnetic flux within the other coil, usually deemed the secondary coil, and thus in turn induces a voltage in the secondary coil. Faraday's *Law of Induction* states that the magnitude of the EMF of the transformer is directly proportional to the number of turns in the coil (N) and the level of change in magnetic flux ($\Delta\Phi$) in relation to time (Δt). This law can be expressed with the

equation $\mathcal{E} = -N \times \frac{\Delta\Phi}{\Delta t}$. In this lab, there were three types of transformers being dealt with, a

standard transformer, in which the primary and secondary coils were equal; a step-down transformer, in which the primary had more coils than the secondary; and a step-up transformer, in which the primary had less coils than the secondary. The use of each of the three types of transformers was to observe, investigate, and verify the relationship between current and voltage, and how the number of turns in a coil may affect those two.

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