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Control the Kind of Power Supply Generated with Ferrite Core Transformers by [Maria Gini](#)

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Electric power transformers are designed to give the user different options for different applications. A power transformer, as the name suggests, channels massive power into mechanical apparatus. With an increase in demand for electrically operated systems there has been a rise in manufacturing of power transformers. To deliver electronic apparatus to the people worldwide; an industry needs massive power supply, which can only be delivered by a power transformer. With more demands for power transformers a notable change has been observed off late. Today major industrial units are looking forward to increasing the capacity of nuclear/thermal operated power transformers.

Power transfer and distribution is one application of power transformers while impedance matching is another. The basic property of a power transformer is to change AC voltage. A transformer cannot change direct current voltage. A step down transformer has a lower AC output voltage at its secondary winding than the AC input voltage to its primary winding. If too much current goes through a coil or winding, the winding heats up and can either open up completely, or the insulation between turns of wire can break down, causing the coil to be partly or completely shorted resulting in the failure of the power transformer.

Due to ever-higher working frequencies, electronic transformers are being prepared from ferrite core materials, but various specific functions make use of other core materials. These Ferrite core transformers execute some inductor-like purpose, such as store up energy and restrictive current flow. Since switch mode transformers can be found in monitors, TVs, fax and so on, they are likelier to be ferrite core transformers. Two wire coils are used in a transformer. One is used to transform the electric current into a magnetic field and the other transforms the magnetic field back to an electric current. In a normal transformer the magnetic field flows through an iron or ferrite core. In the wireless charger the magnetic field goes through plastic encapsulation and air. Ferrite core transformers help control and contain the magnetic flux to their own core. This effectively helps in preventing nearby objects from absorbing the magnetic energy and thus help control power supply.

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SIGA (Electronics) Ltd is a leading manufacturer of all types of a [Ferrite cores](#), power transformers, medical isolation transformer, potted transformers, a [transformer manufacturers](#), and associated assemblies.

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