

Ans-2 → Energy efficient transformer... energy efficient transformers are therefore an important means to reduce transmission and distribution loss. With the improvement of electrical steel (silicon steel) properties, the losses of transformer in 2010 can be half that of a similar transformer in the 1970s.

### Characteristics of ideal transformer

In an ideal transformer, it is assumed that entire amount of flux get linked with secondary winding (that is no leakage flux.) 100% efficiency: An ideal transformer does not have any losses like hysteresis loss, eddy current loss etc. So the output power of an ideal transformer is exactly equal to the input power.

Ex → It is an imaginary transformer that has no core loss, no ohmic resistance, and no leakage flux. The ideal transformer has the following important characteristics.