

# Transformer losses



```
graph TD; A[Transformer losses] --> B[No-load losses]; A --> C[Load losses]; B --> D[Location: Magnetic core; Main Cause: Magnetic reluctance; Feature: constant, independent of the load; Improvements: Magnetic material; Core structure; Thin strip.]; C --> E[Location: Copper wire; Main Cause: Electric resistance; Feature: Proportional to the square of the load current; Improvements: Al -> Cu; Shorten the wire; Thin insulation.];
```

## No-load losses

**Location:** Magnetic core;

**Main Cause:** Magnetic reluctance;

**Feature:** constant, independent of the load;

**Improvements:** Magnetic material;  
Core structure;  
Thin strip.

## Load losses

**Location:** Copper wire;

**Main Cause:** Electric resistance;

**Feature:** Proportional to the square of the load current;

**Improvements:** Al  $\rightarrow$  Cu;  
Shorten the wire;  
Thin insulation.

# Standard Guide To Transformers For Loss

**Tao Wei**



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