Core Type Transformer

Primary

Laminated Core

100 V
10 A
1000 W

Magnetic Flux

Secondary

Laminated Core

High Voltage Winding

400 V
Load 2.5 A
1000 W

Low Voltage Winding

Insulating Cylinders

Laminated Core

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Shell Type Transformer

Primary

- 100 V
- 10 A
- 1000 W
- 5 Turns
- Magnetic Flux
- Laminated Core

Secondary

- 400 V
- Load 2.5 A
- 1000 W
- 20 Turns
- Laminated Core
- Insulating Cylinders
- High Voltage Winding
- Low Voltage Winding
- Laminated Core

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Step-Up Transformer

Primary

100 V
10 A
1000 W
5 Turns
Magnetic Flux
Laminated Core

Secondary

400 V
2.5 A
1000 W
20 Turns
Load

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Step-Down Transformer

Primary

600 V
2 A
1200 W
30 Turns

Secondary

200 V
6 A
1200 W
10 Turns

Load

Magnetic Flux
Laminated Core
Three-Phase Transformer

Here in this example all three primary windings are connected in Star topology.

Primary Winding Phase 1  Primary Winding Phase 2  Primary Winding Phase 3

Secondary Winding Phase 1  Secondary Winding Phase 2  Secondary Winding Phase 3

Here in this example all three secondary windings are connected in Star topology.

Transformer Output Wires  This is an example of Star-Star topology.
Current Transformer

Wire Used As Primary Side

Secondary Side

A

Ammeter

Secondary Winding

Wire Used As Primary Side

A

Ammeter

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Potential Transformer

Live Wire

Neutral Wire

High Voltage

Primary Side

High Voltage

Secondary Side

Low Voltage

Voltmeter

Load

11 kV

Primary

Secondary

110 V

Magnetic Flux

Laminated Core

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