

# SUBSTATION TRANSFORMERS

## Thousands of transformers. In stock. Ready to ship.

Maddox's liquid-filled distribution substation transformers are designed, built, and tested in accordance with all applicable IEEE standards. These units offer a range of customizable features designed to maximize performance and safety.

Maddox stocks all standard configurations and sizes, ready to match most common applications on short notice. With thousands of new and remanufactured transformers in stock and ready-to-ship, Maddox is ready and to meet your transformer needs.



## Design

### HV & LV Connections:

1. Side or cover mounted bushings with one of the following terminations:
  - a. Air Terminal Chamber (ATC)
  - b. Throat
  - c. Flange

### Fluid Options:

1. Type II mineral oil
2. Envirotemp™ FR3™

### Standard Gauge/ Accessory Package:

1. Pressure relief valve
2. Pressure vacuum gauge
3. Liquid temp & level gauges
4. Drain & sample valve
5. Adjustment taps

### Construction:

1. 5-legged core
2. 3-legged core
3. Rectangular wound copper or aluminum windings
4. Circular disc copper windings
5. Carbon reinforced or stainless steel tank

### Optional Design Features & Accessories:

1. Gauges w/ contacts
2. External drain and sample valve
3. Electrostatic shielding
4. K-factor design
5. Surge-arresters
6. Fan cooling
7. Auxiliary control cabinet
8. Sudden pressure relay w/ seal-in relay

## Available Ratings

<b>Sizes (kVA)</b>	500   750   1000   1250   1500 1750   2000   2250   2500 2750   3000   3750   5000 7500   10000   20000   37500 40000   50000   60000 80000   100000
<b>Frequency</b>	60 Hz or 50 Hz
<b>Cooling Class</b>	ONAN or KNAN
<b>Temp Rise</b>	65°C   55/65°C
<b>Voltages</b>	Available in Δ or Y configuration
600V	208   240   416   480   600
2.5kV – 5kV	2400   4160   4800
15kV	12000   12470   13200 13800   14400
25kV	20780   21600   22900 24940   26400
35kV	33000   33260   34500   38000
46kV	43800   44000

## Substation Diagrams

