



# Substation Transformers up to 69 kV



Prolec GE offers a complete line of liquid-filled distribution transformers that meet current applicable ANSI® / IEEE® standards.

In addition to the already existing Substation Transformers product line Prolec GE now offers its brand new transformers, with high voltages from 34.5 kV to 69 kV and ranging from 5 MVA to 12 MVA (ONAN). These type of transformers are used in a wide range of utility, and industrial applications. High-grade materials, combined with state of the art technology in our design and manufacturing systems, are key elements of a transformer that will deliver years of high reliability service.

Prolec GE Substation Transformers meet all of your industrial applications for electric distribution.

## Standard Features

- Insulating mineral oil
- Externally operated de-energized tap changer with (2) 2.5% full capacity taps above and below nominal
- High voltage cover-mounted bushings
- Low voltage cover and side-mounted bushings
- Low voltage flange connections
- Pressure-vacuum gauge
- Top filter press valve provision
- Liquid level gauge
- Liquid temperature gauge
- Winding temperature device
- Pressure test valve
- ANSI grounding pad
- Drain / filter valve with sampling device
- Tank lifting lugs
- Corrosion resistant nameplate
- ANSI 61 paint finish, 5 mils thickness
- ANSI 70 paint finish, 5 mils thickness

- Hydran Provision
- Removable radiators
- 60 Hertz operation
- 65°C average winding rise

## Optional Features & Accessories

- Forced air cooling
- Future fan wiring and control
- Pressure relief device
- Winding temperature device (additional)
- Sudden pressure relay with or without seal in
- Devices with alarm contacts
- Top filter press valve
- Low Voltage air terminal compartments
- Current transformers (additional)
- Neutral grounding resistor
- Special impedances
- Low losses
- Special environment (i.e: classified areas)
- Special/Low sound level
- 50 Hertz
- Seismic zone III and IV
- Stainless steel removable radiators
- Galvanized steel removable radiators
- Special paint for marine ambient
- Special paint thickness
- Special colors
- CSA compliance
- Other special features upon request
- 55°C, 55/65°C average winding rise

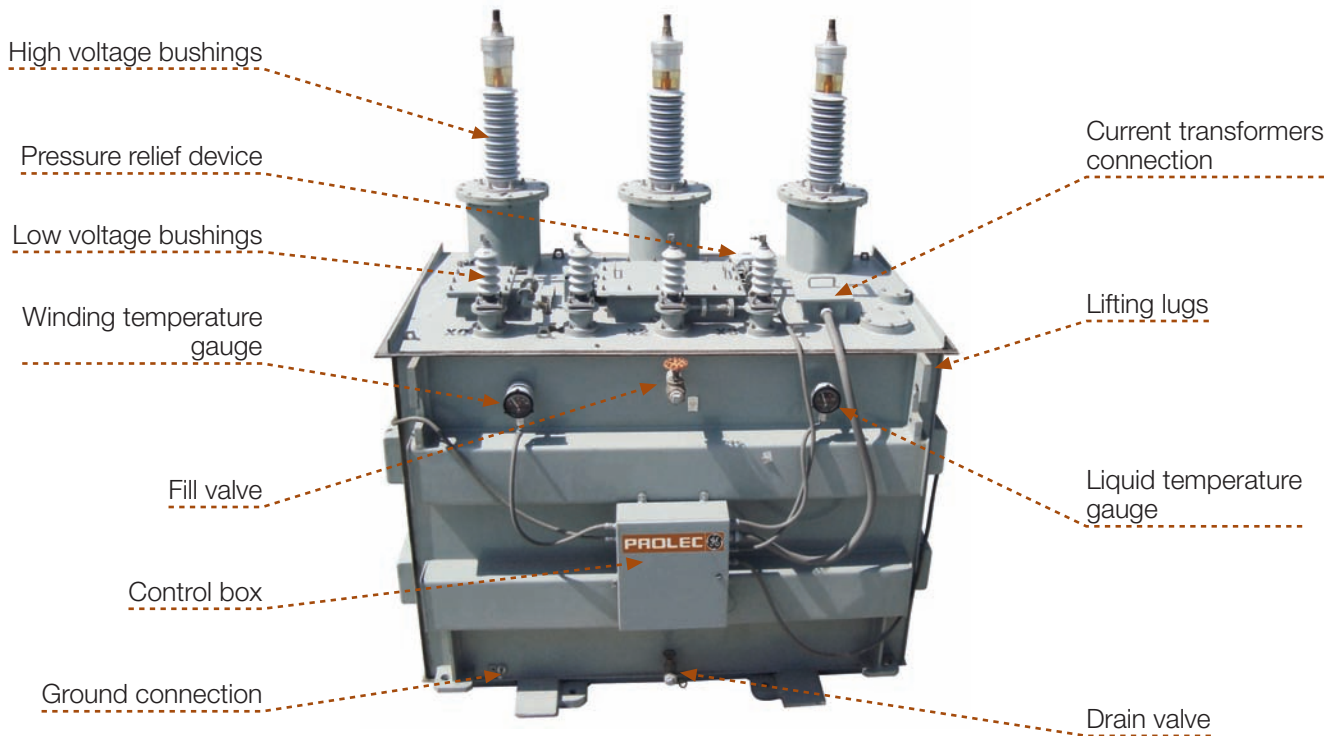
## Tests

Each transformer receives all standard commercial tests in accordance with ANSI C57.12.90 (latest revision), with test reports available by serial number of the transformer.

Routine tests include:

- Resistance tests of all windings
- Ratio test on all tap positions
- Polarity and phase relation tests at rated voltage
- No load loss at rated voltage
- Exciting current at rated voltage
- Impedance and load losses
- Applied voltage test
- Induced voltage test
- Full wave impulse test

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IEEE is a registered trademark of the Institute of Electrical Electronics Engineers, Inc.



**Overall Dimensions for Reference**

Weight (Lbs.) Volume (Gallons) and Dimensions (Inches)					
kVA	Height	Large	Depth	Oil	Weight
5000	154	180	150	2,400	48,000
7500	158	175	185	2,800	60,000
10000	167	263	157	3,200	74,000
12000	164	263	177	3,200	77,000

Standard Primary Voltage Ratings, kV
46
69

Standard Secondary Voltage Ratings
4160 Y / 2400 V
12470 Y / 7200 V
13200 Y / 7620 V
13800 Y / 7960 V
23000 Y / 13280 V

*For kVAs not listed, contact factory.  
Dimensions and weights are approximate and subject to change without notice and should not be used for construction purposes.*

Standard kVA Ratings
5000
7500
10000
12000

Liquid filled impulse ratings	
Nominal System Voltage, kV	Standard BIL, kV
46	250
69	350