Substation Transformers for Industrial Applications

Product scope / Standard features

- **Rating**
  - Up to 15,000 kVA
- **High Voltage**
  - Copper windings
  - Up to 69,000 V Delta or Wye Connected
  - BIL up to 350 kV
  - Tap changer: ± 2, 2.5%
  - Radial feed
  - Live front
  - Porcelain bushing
- **Low Voltage**
  - Copper windings
  - Up to 4,160 V Delta or Wye Connected
  - BIL up to 60 kV
  - Porcelain bushings with 4-holes blade
- **Frequency**: 60 Hz
- **3-legged Core**
- **Temperature rise**: 65°C
- **Cooling class**: ONAN
- **Insulating fluid**: Mineral oil
- **Impedance**: 5.75% ± 7.5%
- **Altitude**: 3,300 FASL
- **Mild steel tank & cabinet**
- **Liquid paint system; Color**: ANSI 61 or ANSI 70
- **Built to all applicable IEEE C57.12.36**

Optional features

- **High Voltage**
  - Tap changer with 7 positions
- **Frequency**: 50 Hz
- **Temperature rise**: 55°C, 55/65°C
- **Cooling class**: KNAN, ONAN/ONAF, KNAN/KNAF, ONAN/ONAF/ONAF, silicone
- **Insulating fluid**: Natural ester fluid (VG-100 or FR3), silicone
- **Impedance per customer request**, ± 7.5%
- **Altitude up to** 14850 FASL
- **Infrared window**
- **Electrostatic shield**
- **Pressure relief device**
- **Winding temperature device**
- **Sudden pressure relay with or without seal in**
- **Devices with alarm contacts**
- **Top filter press valve**
- **HV & LV air terminal compartments**
- **HV lightning arresters in ATC**
- **Current transformers**
- **Neutral grounding resistor**
- **Special environment** (i.e.: classified areas)
- **Special / low sound level**
- **Retrofit to specific dimensions**
- **Non-standard loading conditions such as harmonic loading or specified K-factor**
- **Removable radiators**
- **Stainless steel removable radiators**
- **Galvanized steel removable radiators**
- **Special paint for marine ambient**
- **CSA compliance**

Prolec GE offers Small Primary Substation Transformers (SPSTs) specifically designed for a wide range of commercial, industrial, and utility applications. With high voltages up to 69 kV and ratings up to 15 MVA, Prolec GE transformers are built using high-grade materials and designed with advanced technology in order to provide years of reliable operation. Designed for use in outdoor substations, these transformers comply with the heavy duty requirements of utility and industrial applications.

Our stringent quality assurance practices, state-of-the-art facilities, and highly qualified personnel allow us to deliver products and services according to your needs in a prompt and reliable way. We know that every customer is unique and needs a different level of support and involvement from its transformer supplier. We are committed to providing a reliable and responsive support, from the day you start building your specification to the day in which you start operating the transformer.
**Typical dimensions**

**Oil filled transformer, 65°C, 95 kV BIL**

<table>
<thead>
<tr>
<th>kVA</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Total Weight</th>
</tr>
</thead>
<tbody>
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<td>10000</td>
<td>121</td>
<td>125</td>
<td>160</td>
<td>46300</td>
</tr>
<tr>
<td>12000</td>
<td>121</td>
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<tr>
<td>15000</td>
<td>121</td>
<td>170</td>
<td>180</td>
<td>62000</td>
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</tbody>
</table>

**VG-100 filled transformer, 65°C, 95 kV BIL**

<table>
<thead>
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<th>kVA</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Total Weight</th>
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<td>180</td>
<td>72500</td>
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</tbody>
</table>

*Dims in inches.  
Weight in Lbs.*

**Standards and certifications available**