VOG-20B
Outdoor voltage transformer

The VOG-20B is a robust voltage transformer designed for use in line-to-ground applications.

Product features
- 34.5 kV, outdoor
- 200 kV BIL, 60 Hertz
- Electrical clearances:
  - Strike: 21.6” (549 mm); creep: 50.2” (1277 mm)
- Minimum operating temperature: -50° C
- Approximate weight: 125 lbs. (57 kg)

Application
An optimal solution for line-to-ground metering applications, the VOG-20B offers superior performance in a compact design. Tapped and dual secondary windings are also available upon request.

Industry leading performance
Enhanced creep distance and intelligent shed design minimize flashover potential and provide superior heat dissipation. Encapsulated in field-proven HCEP material (hydrophobic cycloaliphatic epoxy), the VOG-20B delivers unparalleled performance in outdoor applications, including heavily polluted and coastal environments.

Terminals
The electro-tin plated primary H1 bushing terminal accommodates #10 to 250 MCM conductors. The H2 neutral terminal is insulated to withstand a 19 kV test level and can be disconnected from the external ground cable for power factor measurement. Clamp-type secondary terminals accommodate #14 through #3 wire. Stud type terminals (0.750-16 x 1.125), ideal for use in primary metering cabinets and other applications, are available upon request.

Junction box
The junction box has a 1” conduit hub on either end and a knock out for a 1” conduit fitting on the bottom. The box is anchored to the body of the transformer with screws and can be easily detached, simplifying installation and change-out procedures.

Baseplate
The base is constructed of corrosion-resistant aluminum and is secured to the encapsulated base support.

Mounting
The VOG-20B can be mounted in upright or cantilever positions. Stress relief devices should be used to support cable connections where applicable.

Test reports
Test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

Standards
This unit meets or exceeds all requirements of IEEE C57.13-2016 and can be tested to other standards as requested.
### Selection guide

<table>
<thead>
<tr>
<th>Primary voltage</th>
<th>Secondary voltage</th>
<th>Winding ratio</th>
<th>Metering accuracy</th>
<th>Thermal rating at 30° C</th>
<th>Rated voltage factor (RVF)*</th>
<th>Style number</th>
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</thead>
<tbody>
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<td>120</td>
<td>166:1</td>
<td>0.3Y</td>
<td>1500</td>
<td>1.9</td>
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<td>115</td>
<td>175:1</td>
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* RVF for 8 hours

Additional styles available upon request. Contact your ABB sales representative or call +1-252-827-3212 for more information.