

## INSTRUMENT TRANSFORMERS

# VOY-20

## Outdoor voltage transformer



The VOY-20 outdoor voltage transformer is designed for metering and relaying on 34.5 kV circuits.

### Key features

- 34.5 kV, outdoor
- 200 kV BIL, 60 Hertz
- Electrical clearances:
  - Strike: 25.25" (387 mm)
  - Creep: 38.00" (965 mm)
- Approximate weight: 125 lbs. (57 kg)

### Application

The VOY-20 outdoor voltage transformer is designed for solid state relaying and electronic metering where the burden of the device is negligible.

### Construction features

For insulation and protection, the assembly is cast in hydrophobic cycloaliphatic epoxy (HCEP) using automatic pressure gelation. The HCEP material offers superior arc track, ozone, and ultraviolet-resistive properties while maintaining physical strength. The hydrophobic properties of HCEP ensure a high level of performance in wet, polluted or coastal environments.

### Terminals

Electro-tin plated copper primary line terminals accommodate #10 to 250 MCM conductors. Clamp-type secondary terminals accommodate #14 through

#3 wire. A ground terminal is also provided for grounding the secondary circuit at the transformer.

### 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. It 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 VOY-20 can be mounted in upright, cantilever, or upside-down positions. Stress relief devices should be used to support cable connections where applicable. For more installation guidance, refer to [medium voltage outdoor voltage transformers 5 - 34.5 kV instructions for installation, use, and maintenance](#).

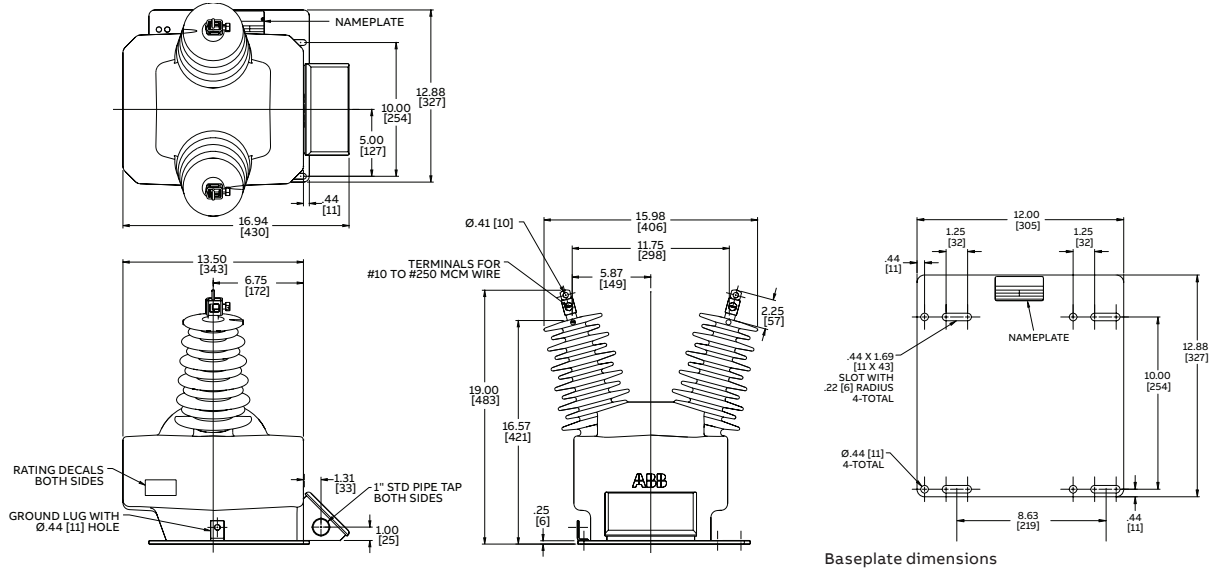
### Test reports

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 and can be tested to other standards as requested.

## Dimensions



## Selection guide

Primary voltage	Secondary voltage	Winding ratio	Metering accuracy	Rated voltage factor (RVF)	Thermal rating @ 30° C	Style number
19920/34500Y	115 & 66.4	173.2 & 300:1	0.3 W, X, M, & Y	1.9	1000	E-7882A30G07
19920/34500Y	120	166:1	0.3 W, X, M, & Y	1.9	1000	E-7881A82G09
19800/34300Y	120	165:1	0.3 W, X, M, & Y	1.9	1000	E-7881A82G01
20125/34500Y	115	175:1	0.3 W, X, M, & Y	1.9	1000	E-7881A82G05
27600/27600Y	115	240:1	0.3 W, X, M, & Y	1.9	1000	E-7881A82G03
34500/34500Y	115	300:1	0.3 W, X, M, & Y	1.25	1000	E-7881A82G07
34500/34500Y	125.45	275:1	0.3 W, X, M, & Y	1.25	1000	E-7881A82G04
27600/27600Y	115/69	240/400:1	0.3 W, X, M, & Y	1.9	1000	E-923A107G01
34500/34500Y	115/69	300/500:1	0.3 W, X, M, & Y	1.25	1000	E-923A107G02
20125/34500Y	115/67.08	175/300:1	0.3 W, X, M, & Y	1.9	1000	E-923A107G03

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

Note: 50 Hz designs available