Application
Type PST voltage transformers are designed to provide remote location power needs up to 167 kVA on a systems rated 46 kV, 27,600 volts line to ground at 250 kV BIL primary.

Product Mechanical Details
Transformer tanks and expansion chambers are fabricated from mild steel and protected with the latest technology, powder coated external finish ANSI 70 light gray is the standard finish color. All PST’s are hermetically sealed, full vacuum assemblies provided with a dry nitrogen cushion.

One-piece, wet processed porcelain bushings are used on all PST’s. Bushings are designed to exceed IEEE standards for creep and strike distances. The standard bushing color is ANSI 70 light Gray.

The primary terminal is a NEMA standard 4-hole pad, suitable for copper or aluminum bus connectors. The secondary power terminations are NEMA 6-hole spades located in a 20” x 22” x 10” terminal box with removable bottom plate. Optional metering winding terminations are ¼”-20 studs with flat and lock washers located inside a separate 8” x 8” x 6” terminal box with three (3) 1.5” conduit hubs. A NEMA 2-hole, stainless steel tank ground pad is provided.

All PST’s are equipped with a 5kV HO bushing, magnetic oil level gauge, ¼” drain valve, ¼” oil fill plug and pressure relief valve.

Winding Options
The standard PST voltage transformer has two (2) isolated power windings that are designed to be connected in either series or parallel to provide the rated output voltages 125/250V for control power. Optional metering winding configurations are available. The transformer is accurate from 90% to 110% or rated primary voltage. 0.3% accuracy is available through IEEE burdens of W, X, Y, Z and ZZ.

The metering windings are typically used for control or relay applications and will remain accurate up to 10% loading of rated KVA. The metering windings will be less accurate as the power winding loading is increased.

Mounting
All PST voltage transformers are designed for outdoor, vertical platform mounting and must not be tilted more than 15 degrees from vertical.

Testing
Every transformer is tested in accordance with IEEE Standard C57.13 (latest revision).

Seismic Withstand Capability
All PST designs are rated for high seismic withstand per IEEE 693 through dynamic analysis.

Options
Stainless Steel Tank and/or Expansion Chamber
Extra Creep Bushings
Station Service Transformer

Dimensions and Details

Volutes, Ratios and Catalog Numbers

KVA | Primary Voltage | Power Winding Voltage | Power Winding Ratio | Metering Winding Voltage | Metering Winding Voltage | Metering Winding Ratio | Catalog Number Power | Catalog Number Metering |
---|---|---|---|---|---|---|---|---|
10 | 27600 | 250/125 | 110/221:1 | 115/69 & 115/69 | 240/400 & 240/400:1 | PA1025022110P01 | PA1025022110M01 |
25 | 27600 | 250/125 | 110/221:1 | 115/69 & 115/69 | 240/400 & 240/400:1 | PA1025022125P01 | PA1025022125M01 |
50 | 27600 | 250/125 | 110/221:1 | 115/69 & 115/69 | 240/400 & 240/400:1 | PA1025022150P01 | PA1025022150M01 |
100 | 27600 | 250/125 | 110/221:1 | 115/69 & 115/69 | 240/400 & 240/400:1 | PA1025022199P01 | PA1025022199M01 |
167 | 27600 | 250/125 | 110/221:1 | 115/69 & 115/69 | 240/400 & 240/400:1 | PA1025022167P01 | PA1025022167M01 |

Dimensions and Weights

KVA | A | B | C | D | E | F | G | H | J | K | L | Weight | Gals |
---|---|---|---|---|---|---|---|---|---|---|---|---|---|
10 | 63.53" | 13.62" | 29.13" | 9.13" | 20.12" | 46.51" | 28.60" | 26.60" | 23.50" | 26.75" | 6.53" | 2,680 | 105 |
25 | 63.50" | 13.62" | 29.00" | 7.26" | 24.44" | 58.29" | 37.13" | 31.63" | 30.75" | 30.75" | 9.84" | 4,000 | 150 |
50 | 76.00" | 13.62" | 41.50" | 19.49" | 29.25" | 69.59" | 47.00" | 41.00" | 38.00" | 46.00" | 9.84" | 4,670 | 270 |
100 | 76.00" | 13.62" | 41.50" | 18.19" | 34.45" | 79.79" | 53.63" | 42.00" | 38.00" | 46.00" | 9.84" | 5,100 | 270 |
167 | 84.00" | 13.62" | 49.38" | 16.50" | 45.38" | 99.57" | 73.60" | 53.60" | 46.50" | 72.00" | 9.84" | 10,500 | 665 |

This information is subject to change without notice. 
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Other ratings and options may be available. 
Please contact the factory with your requirements. 

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