GE
Grid Solutions

OTET

Power Voltage Transformers From 72.5 KV to 362 KV

Power voltage transformers ensure high reliability and power availability for any critical load need up to 100 kVA per phase.

A Cost-effective Solution

Power voltage transformers are used in high voltage transmission systems to provide low voltage energy directly from the lines. They are also called Station Service Voltage Transformers (SSVT).

Power voltage transformers (PVT) are a cost-effective solution for substations in various conditions. They can be used for rural electrification with transmission lines to supply power to remote areas with no distribution network nearby.

PVTs can also be used during temporary constructions of substations, power plants, wind farms or any other emergency use of temporary energy supply.

Another area of application are substations in the countryside due to low voltage supply for infrastructure e.g. telecommunications.

PVTs can also be applied for permanent or temporary low voltage supply directly from high voltage lines (up to 362 kV) therefore avoid the need of a dedicated conventional power transformer.

Testing

Grid Solutions' PVTs meet the requirements of national and international standards. This has been confirmed by comprehensive type tests according to the latest IEEE standards.

Standards

There are no specific standards for power voltage transformers.
The insulations rules follow the rules of instrument transformers:

- IEEE C57.13 & C57.13.5: Instrument transformers

Quality

The entire development and production procedures for the PVTs are fully compliant with the latest quality standards of ISO 9001, ISO 14001 and OHSAS 18001. They ensure the high quality of our products and services which are confirmed by regular audits.

Key Benefits

- Tested according to latest standards e.g. IEEE C57.13
- Maintenance free, designed for more than 30 years life time
- Compact design
- Hermetically-sealed
- Aluminium housing

Imagination at work

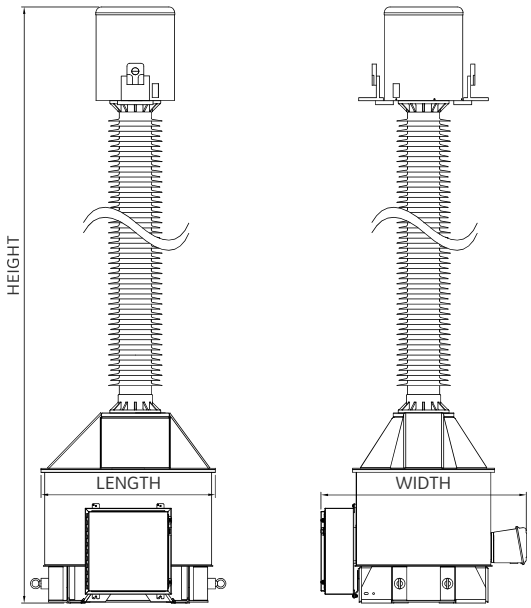
Performance Overview and Dimensions

	Voltage	Power	Height	Length	Width	Weight
	kV	kVA	mm in	mm in	mm in	mm in
OTET 72.5	72.5	50/100	2870 113	1233 49	1424 56	2874 6337
OTET 123	123	50/100	3251 128	1233 49	1424 56	2942 6485
OTET 145	145	50/100	3404 134	1233 49	1424 56	2972 6553
OTET 170	170	50/100	3785 149	1233 49	1424 56	3008 6632
OTET 245	245	50/100	4216 166	1233 49	1424 56	3099 6833
OTET 362	362	50	5334 210	1233 49	1424 56	3175 7000

Creepage distance 25 mm/kV or 31 mm/kV and dielectric withstand according to IEEE or IEC (other values are available on request).

All dimensions and weights are given for information only and subject to modification without prior notice. The figures in the table are given for 25 mm/kV (phase to phase) creepage distance and standard dielectric withstand voltage.

Composite insulators are offered as standard option - porcelain insulators are available on request.



Dimensions

Technical Characteristics

- Paper-oil insulation
- Porcelain or composite insulator
- Hermetically-sealed by metallic diaphragm assembly
- Partial discharges less than 10 pC up to 1.2 max. line-line voltage
- Delivery power up to 100 kVA
- Seismic design available
- Maintenance free
- Outdoor use

For more information please contact:
GE
Grid Solutions

Worldwide Contact Center

Web: www.GEGridSolutions.com/contact
Phone: +44 (0) 1785 250 070

GEGridSolutions.com

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