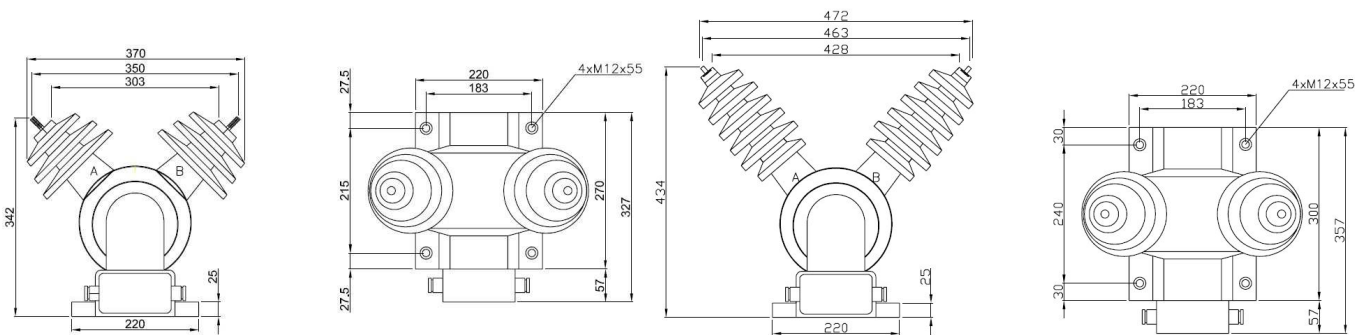


**Technical Characteristics**

Type	VTOP 2(1)-X	
Highest Voltage for Equipment [kV]	7.2 to 27.6	
Rated Primary Voltage [kV]	X = 2.4 to 27.6	
Rated Secondary Voltage [V]	up to 240	
Winding Ratio Ranges:	20:1 to 230:1	
Power Frequency Test Voltage [kV/1min]	7.2 to 50	
Lightning Impulse Test Voltage (BIL) [kV]	50 to 125	
Weight [kg]	25 to 32 (60 for larger VA units)	
Burden / Accuracy class, 50/60Hz [VA / %]	(25 / 0.2), (50 / 0.5), (75 / 1), (200 / 3), (250 / 3), (= > 600 / 5) / (0.3WXY1.2Z)	
Protection	3P, 6P / 1PWX2PZ	
Rated Frequency (for all types) [Hz]	50 & 60	
Rated Voltage Factor/rated duration	1.2Un/ permanent for two phase, 1.9Un/8h – for single phase	
Mounted	In any position	
Ambient temperature range [°C]	-50 to +50	
Mechanical Protection	IP 54 / NEMA 3R	
Standards / Certified	IEC 60044-2/2003, IEC 60529/2013, C22.2 No. 47-13, IEEE C57.13	

For additional Technical Characteristics for other VTOP specification please refer to our website.

**Overall Dimensions**





## PRODUCT DESCRIPTION

### Dry Insulated Voltage Transformer

There are two designs of this voltage transformers:

- ***VTOP 1-X single – phase, dry insulated***
- ***VTOP 2-X two – phase, dry insulated***

Transformers are monolithically casted within cured epoxy resin and are designed for outdoor installation for voltage levels between 2.4 kV and 27.6 kV.

They are ideally paired with reclosers, powering remote wireless communication and transfer signal equipment, monitoring cameras and other small demand power equipment installed far from low voltage power supply lines.

The magnetic core is a classic type with its copper windings in layers. This provides convenient distribution of radial and axial stresses as well as good resistance to industrial frequency shocks and transients.

The voltage transformer is completely vacuum impregnated and sealed within cured epoxy resin, resulting in a one piece compact body with smooth surfaces providing high dielectric strength and mechanical durability.

Single – phase voltage transformers can also have a residual voltage winding intended for broken delta connection. Single phase units can be supplied with one or two bushings.

Double bushing VTOPs are intended for connecting line to line (two phases), line to ground or line to neutral.

### KEY PRODUCT BENEFITS

- Supply power to the equipment (up to 600 VA) directly from medium voltage grids
- Act as a step-down transformer for the smaller load equipment
- Built in safety technology to limit overvoltage spikes (VTOP's unique design)
- Can work as a small load, power, potential or instrument transformer
- Works as independent power supply from medium voltage lines
- Transformer is fire retardant
- 100% copper windings
- Insulation cannot drain out – fully cured in cast epoxy resin
- Excellent in ambient temperatures from -50°C to +65°C
- Transformer can be installed in any position and anywhere
- Maintenance free
- No enclosure needed for outdoor installation
- Environmentally clean and friendly
- No risk for environmental and no special needs for disposal
- Transformer operate silently
- Highly reliable
- Customizable for any other medium voltage levels
- Indoor and outdoor models are available

### ADDITIONAL INFORMATION

Please visit our website [www.egcanada.ca](http://www.egcanada.ca) for further information about Energo Group Canada Inc. and its' products or contact sales at [sales@egcanada.ca](mailto:sales@egcanada.ca)