

# INDOOR VOLTAGE TRANSFORMER

Models **PTG5-1-110**  
**PTG5-2-110**

**ACCURACY CLASS:**  
0.3 WXYZ, 1.2ZZ at 100% rated voltage with 120V based ANSI burden.  
0.3 WXY, 1.2Z at 58% rated voltage with 69.3V based ANSI burden.

**FREQUENCY:**  
60 Hz.

**MAXIMUM SYSTEM VOLTAGE:**  
15.5kV, BIL 110kV full wave.

**THERMAL RATING:**  
1500 VA at 30°C. amb.  
1000 VA at 55°C. amb.

**WEIGHT:**  
Approximately 85 lbs. unfused.

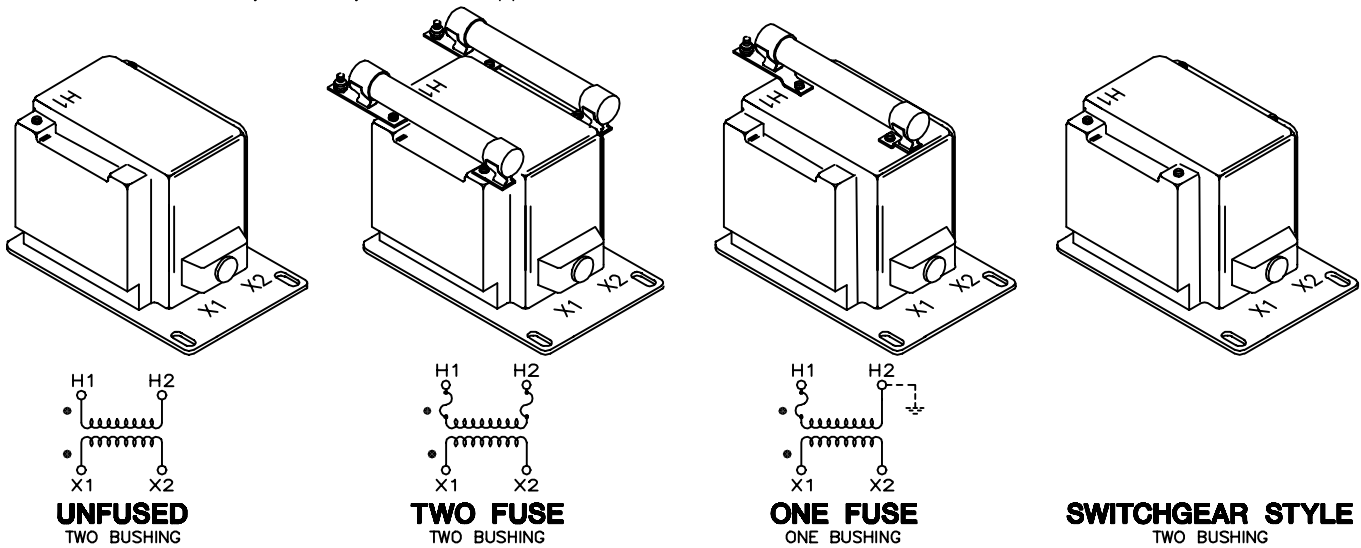
REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.  
Classified by U.L. in accordance with IEC 44-2

- Primary terminals that are unfused are 1/4–20 brass screws with one flatwasher and lockwasher, unless otherwise specified.
- Primary terminals that are fused are 1/4–20 brass screws with one flatwasher, lockwasher and two nuts.
- Secondary terminals are No.10–32 brass screws with one flatwasher and lockwasher.
- The transformers are tested for partial discharge to Canadian Standards CAN 3–C13–M83. This test can also be carried out to IEC requirements if requested.
- The core and coil assembly is vacuum encapsulated in polyurethane resin.
- Thermal burden rating is for 120 volt secondaries.
- Plated steel mounting base.
- Fuses have 1.63" Dia Caps and 11.50" clip centers.
- Switchgear style is similar to fused style. No fuse or fuse clip is provided, but inserts for fuse clips are supplied.
- A test card is provided with each unit.

**NOTE:** All primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. AE-0431 Rev. 01



GROUP	TWO BUSHING (a)			CATALOG NUMBERS			
	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	UNFUSED	FUSES	FUSE CLIPS ONLY	SWITCHGEAR STYLE
1	*7200	60:1	120	PTG5-2-110-722	PTG5-2-110-722FF	PTG5-2-110-722CC	PTG5-2-110-722SS
1	*8400	70:1	120	PTG5-2-110-842	PTG5-2-110-842FF	PTG5-2-110-842CC	PTG5-2-110-842SS
2	11000	100:1	110–50Hz	PTG5-2-110-113	PTG5-2-110-113FF	PTG5-2-110-113CC	PTG5-2-110-113SS
2	*12000	100:1	120	PTG5-2-110-123	PTG5-2-110-123FF	PTG5-2-110-123CC	PTG5-2-110-123SS
2	13200	110:1	120	PTG5-2-110-1322	PTG5-2-110-1322FF	PTG5-2-110-1322CC	PTG5-2-110-1322SS
2	*14400	120:1	120	PTG5-2-110-1442	PTG5-2-110-1442FF	PTG5-2-110-1442CC	PTG5-2-110-1442SS

GROUP	ONE BUSHING (b)				R <sub>FR</sub> (c)	CATALOG NUMBERS		
	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	FUSES		FUSE CLIPS ONLY	SWITCHGEAR STYLE	
4A	*7200	60:1	120	PTG5-1-110-722F	PTG5-1-110-722C	PTG5-1-110-722S		
4A	*8400	70:1	120	PTG5-1-110-842F	PTG5-1-110-842C	PTG5-1-110-842S		
4B	11000	100:1	110–50Hz	PTG5-1-110-113F	PTG5-1-110-113C	PTG5-1-110-113S		
4B	*12000	100:1	120	PTG5-1-110-123F	PTG5-1-110-123C	PTG5-1-110-123S		
4B	13200	110:1	120	PTG5-1-110-1322F	PTG5-1-110-1322C	PTG5-1-110-1322S		
4B	*14400	120:1	120	PTG5-1-110-1442F	PTG5-1-110-1442C	PTG5-1-110-1442S		

(a) Two fuse transformers should not be used for Y connections. It is preferred practice to connect one lead from each voltage transformer directly to the neutral terminal, using a fuse in the line side of the primary only. By using this connection a transformer can never be made "live" from the line side by reason of a blown fuse in the neutral side. For continuous operation, the transformer primary voltage should not exceed 110% of rated value.

(b) Voltage transformers connected line-to-ground cannot be considered to be grounding transformers and must not be operated with the secondaries in closed delta because excessive currents may flow in the delta.

(c) See page 4, item 2 for ferroresonance considerations. Values in table are in ohms.

NOTE: It is recommended the system line-to-line voltage not exceed the transformer maximum system voltage level.