



VIRGINIA - GEORGIA TRANSFORMER  
ONE SOURCE-ONE COMMITMENT

# LTCs and Regulators

## Customized LTC and Regulator Solutions for Your Next Project

With more than 50 years of transformer engineering and manufacturing experience, Virginia Transformer is the trusted supplier of automatic load tap changing (LTC) transformers and regulators for every application.

We proudly offer fully customized solutions designed for your specific requirements, including:

- **Windings:** Barrel or disc for HV or LV windings using copper or aluminum conductors; circular or rectangular coil options
- **Cores:** Variety of core lamination materials and stacking configurations available
- **Oil Preservation Systems:** Sealed tanks, conservators, and automatic (nitrogen) positive-pressure systems
- **Tap Changer Types:** Resistive, reactive, and vacuum systems
- **Switch Location:** Separate compartment electrically connected to low-voltage winding (US) or high-voltage winding (Europe and Asia)
- **Tap Range:** Standard sixteen above and below rated voltage at 5/8% increments for a total of +/- 10%; increased adjustment ranges and incremental steps as needed
- **Control Systems:** Local or remote, automatic or manual control systems for single or multiple (parallel) applications; line monitoring, time delays, supervisory control, and SCADA interfaces also available
- **3-Phase Voltage Regulators:** Designed and constructed per customer requirements

We also offer remote indication of tap position via selsyn, current-loop analog output, digital position indication or multi-contact position indicator rows. All our LTC systems have separate selector and diverter contacts.

### ABOUT US:

Virginia Transformer Corporation is the largest U.S.-owned power transformer manufacturer in North America, providing custom-engineered power transformers for data center, utilities, renewables, and specialty markets. Products range in power from 500 kVA to 500 MVA core type, up to 1,400 MVA shell type. Our mission is to deliver the perfect transformer for any application. To learn more, visit us at [www.vatransformer.com](http://www.vatransformer.com).

### OPTIONS

- Reconnectable windings on non-regulated winding
- Non-standard impedance
- Epoxy, polyurethane paint in your choice of color
- Galvanized radiators
- Termination throats and chambers
- Shock indicator
- Dissolved gas monitor
- CTs and PTs for metering and relaying
- Customer-specific controls and relays



## Qualifications

- Six ISO-9001-certified manufacturing plants in North America
- UL-listed dry-type units up to 5000 kVA, 35 kV class, 220°C insulation system, NEMA 1 or 3R
- UL-listed liquid-filled units up to 100 MVA, 69 kV class
- Compliant with all North American standards

### TYPICAL DIMENSIONS, WEIGHTS AND DATA FOR LTC TRANSFORMERS FROM UP TO 15 MVA 69 KV

For larger MVA and higher voltage transformers contact the VTC sales office.

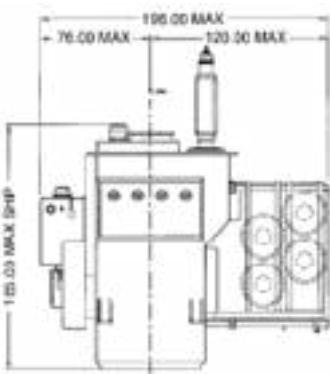
KVA	Tank Height (inches)	Tank Length (inches)	Total Depth (inches)	Total Weight (pounds)	Oil Quantity (gallons)	No Load Losses (watts)	Total Losses (watts)
2,500	112	80	130	30,000	1,200	5,200	24,700
3,000	118	94	130	36,000	1,500	5,800	28,500
3,750	124	106	136	45,000	2,000	6,500	35,000
5,000	130	114	136	55,000	2,400	8,500	45,000
7,500	134	120	146	71,000	2,900	11,000	62,000
10,000	144	130	152	87,000	3,400	13,500	75,500
15,000	144	144	180	114,000	4,200	17,500	101,000

Data is for estimating purposes only and should never be used for construction. Contact factory for actual dimensions, weights and oil volume.

### SAMPLE OUTLINE FOR 25-50 MVA WITH LOAD TAP CHANGER



Front View



Right Side

25 MVA Base with up to 46.67 MVA capacity. HV is 138,000 volts. Designed for municipal power facility in Illinois. Transformer has Reinhauen RMV-II load tap changer with Beckwith controls.

#### MODEL/SN 9895A DESIGN DATA

KVA: 25000/33000/41670 28000/37330/46670

PH: 3 60 Hz 55/65°C Rise

No Load Tap:  $\pm 2 \times 2.5\%$  Class: OA/FA/FA

Load Tap:  $\pm 16 \times 0.625\%$

Impedance: 9.5% Nominal Weight: 200,452 LBS

Windings: Copper

Winding	Volts	BIL	AMPS. @ 46.67 MVA
HV	138000 Delta	550 kV	195 NOM
LV	12470 WYE	110 kV	2161 NOM



International Organization for Standardization



Minority Business Enterprise

#### Virginia Transformer Corp

#### Georgia Transformer

1936 Blue Hills Drive  
Roanoke, VA 24012 USA  
Phone: 540.345.9892

220 Glade View Drive  
Roanoke, VA 24012 USA  
Phone: 540.245.9892

3770 Poleline Road  
Pocatello, ID 83201 USA  
Phone: 208.238.0720

**P1**  
Complejo Industrial Chihuahua.  
Ave. Homero #3307, Chihuahua, MX  
Phone: 52.614.483.0000

**P2**  
Avenida de las Industrias 6899  
Nombre de Dios, Chihuahua, Chih.  
Phone: 52.614.483.0000

2789 Highway 21 South  
Rincon, GA 31326 USA  
Phone: 912.754.5300