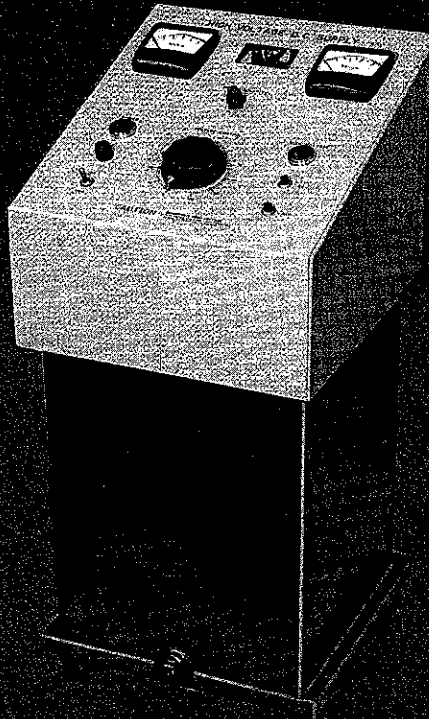


# TC SERIES

## COMPACT FULLY PROTECTED AND INSTRUMENTED HV DC UNITS



Del TC Series Power Supplies are multi-purpose, compact, fully instrumented and fully protected units providing continuously variable ratings up to 80,000 vdc. They are recommended for industrial and commercial applications such as laboratory use, dielectric testing, electrostatic painting, electrostatic flocking, and similar service where a rugged, dependable dc high-voltage source is required. Selenium rectifiers are used throughout to provide long life and instantaneous operation. No filament warmup time is required.

All high-voltage components are immersed in high grade insulating oil, assuring long trouble-free life. As shown in the photograph, the high-voltage section is integral with the controls, which are mounted on a sloping-front instrument panel.

### FEATURES

- Reversible output polarity
- Selenium-rectifier circuits provide long life and instantaneous operation
- All high-voltage components are immersed in high-grade insulating oil — Assures trouble free life
- Easy-to-read 2% kilovoltmeter and milliammeter
- SAFETY: 1. Meters are protected against overloads and high-voltage flashovers.  
2. Zero-start interlock withholds ac input from high-voltage transformer unless high-voltage output control has been returned to zero.  
3. Automatic shorting solenoid discharges the energy stored in the output capacitor immediately on shutdown.
- Self-grounding line cord — Shielded polyethylene coaxial output cable
- Sloping-front instrument panel

**CONFIGURATIONS** — All models are normally furnished in dark gray cabinets with gray panels equipped with controls and meters.

Castered cradles are available for all models as an option.

### SPECIFICATIONS

**Input:** 105-125 volts, 50/60 hz, single phase

**Output voltage:** Continuously variable from zero to rated maximum dc output voltage (see table.)

**Output current:** See table

**Ripple:** See table

**Meters:**  $\pm 2\%$  full scale kilovoltmeter and milliammeter provided

**Circuit protection:** Fixed overload relay set for 120% of rated current  
Load current surge-limiting resistor  
Readily accessible fuses

%/ma is specified at maximum voltage and current.

\*Percentage shown is also accurate for lower currents down to less than 15% of the maximum ma rating.

\*\*Dimensions are nominal. Outline drawings available on request.

### STANDARD MODELS

MODEL NO.	FULL LOAD VOLTAGE RANGE (KV)	CURRENT RANGE (MA)	RIPPLE* (%RMS/MA AT 60 HZ)	DIMENSIONS**	
				COMPLETE UNIT (in., w x d x h)	TANK ONLY (in., w x d x h)
30TC-5-1	0-30	0-5	0.4	14½x13½x25¾	14x13x16½
40TC-5-1	0-40	0-5	0.5		
50TC-5-1	0-50	0-5	0.4		
60TC-5-1	0-60	0-5	0.4		
30TC-20-1	0-30	0-20	0.4	17x17x32	16½x16½x21½
40TC-20-1	0-40	0-20	0.4		
50TC-10-1	0-50	0-10	0.4		
60TC-10-1	0-60	0-10	0.4		
70TC-5-1	0-70	0-5	0.4		
80TC-5-1	0-80	0-5	0-4		