

**TECUL Series - Extended Range Buffer Networks (Inductive Input)**

# TECUL Series

## Filter Cabinet

- Modified NEMA 1, constructed of not less than #14 gauge CRS with galvanized bulkhead
- WHITE epoxy finish to all non-conductive surfaces
- Brush-plated electro-tin on all conductive surfaces
- R.F. Radiation of the shielded (load) compartment greater than 100 dB from 14 kHz to 10 GHz
- Front cover access, dual cover design
- Filter inserts pre-wired to standoffs and lugs
- Lifting hooks and mounting tabs
- Legs for floor mount available (see page 24)

## Individual Filters

- Sealed components with welded seams
- Constructed of not less than #16 gauge steel with corrosion resistant plating
- Bleeder resistor to eliminate shock hazard provided
- HEMP Surge arrestors provided upon request†

## Electrical Characteristics

### Voltage Drop:

Less than 1% @ unity power factor

### Overload:

140% of rated current for 15 minutes

### Harmonic Distortion:

Less than 2% @ full rated current

### Dielectric Withstanding Voltage:

Per MIL-PRF-15733 and UL1283

### D.C. Insulation Resistance:

Per MIL-STD-202, Method 302

### Terminal Strength:

Per MIL-STD-202, Method 211, Condition E

### Temperature Rise:

Per MIL-PRF-15733 and UL1283

### R.F. Radiation:

100 dB minimum shielding effectiveness

### Insertion Loss:

100 dB from 14 kHz - 10 GHz per MIL-STD-220B, under load condition, using extended range buffer networks over the frequency range of 14 kHz - 20 MHz

### Applicable Publications:

- MIL-PRF-15733** – Filters, radio interference
- MIL-STD-202** – Test methods for Components
- MIL-STD-220B** – Test method of Insertion Loss
- MIL-STD-188-125-1** – HEMP
- MIL-STD-285** – Test method for Shielding Effectiveness
- NFPA 70-1987** – National Electric Code
- 486A - 1983** – Wire Connectors and Lug
- UL1283** – UL standard for EMI Filters

† Intended for HEMP applications ≥225A. For filters rated ≤150A refer to the CDEUL Series on page 12.

Intertek Listed Filter Panel

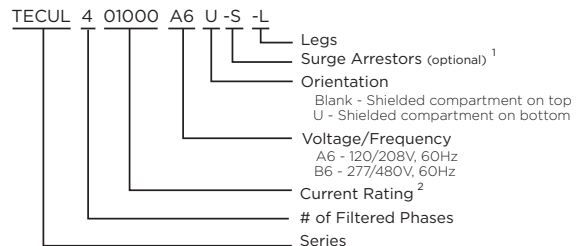


UL Recognized Filters



Shown with optional legs  
Center mounting bracket not installed on all sizes

## How to Order:



### Examples:

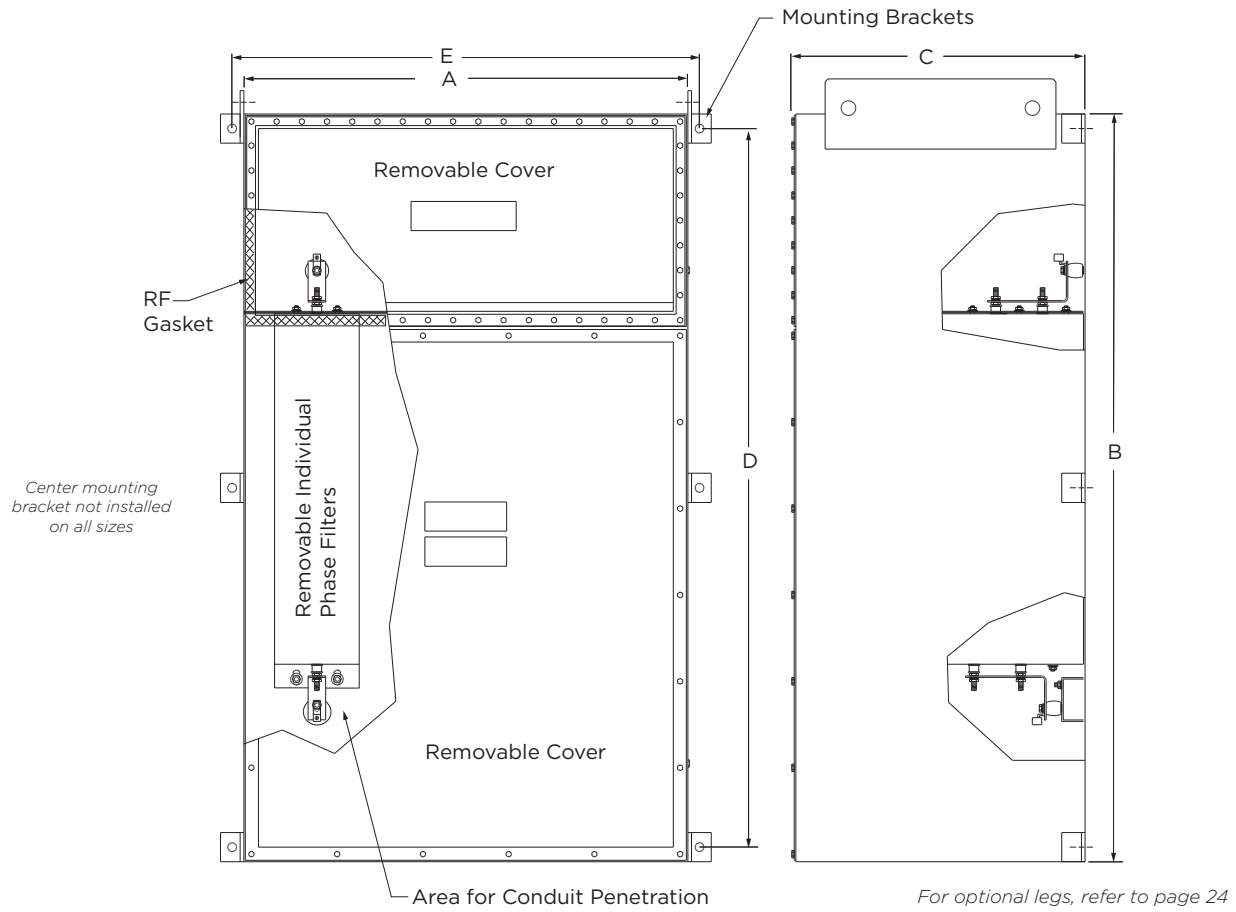
TECUL401000A6-S-L =  
4 phases 1000A (each consisting of 3, 400A TECUL 120/208V filters) in a cabinet with surge arrestors and legs

TECUL300225B6 =  
3 phases 225A TECUL, 277/480V filters in cabinet

Note 1: Surge Arrestor for A6 Models: V251BA60  
Surge Arrestor for B6 Models: V481BA60

Note 2: Current rating always listed as 5 digits with leading zeros

**TECUL Series - ERBN (Inductive Input)** *(continued)*



Recommended torque for fasteners on removable cover: 25 in. lb. ± 3 in. lb.

Max. Operating Voltage	
A6:	120/208V, 60 Hz
B6:	277/480V, 60 Hz

# Filtered phases @ rated current	Dimensions					Weight (Pounds/KG)
	A	B	C	D	E	
2 @ 225A	16.0	54.0	14.0	42.0	18.0	380
	<i>406.4</i>	<i>1371.6</i>	<i>355.6</i>	<i>1066.8</i>	<i>457.2</i>	<i>172.4</i>
3 @ 225A	23.0	54.0	14.0	42.0	25.0	520
	<i>584.2</i>	<i>1371.6</i>	<i>355.6</i>	<i>1066.8</i>	<i>635.0</i>	<i>235.9</i>
4 @ 225A	30.0	54.0	14.0	42.0	32.0	700
	<i>762.0</i>	<i>1371.6</i>	<i>355.5</i>	<i>1066.8</i>	<i>812.8</i>	<i>317.5</i>
2 @ 400A	22.0	64.0	26.0	61.5	24.0	800
	<i>558.8</i>	<i>1625.6</i>	<i>660.4</i>	<i>1562.1</i>	<i>609.6</i>	<i>362.9</i>
3 @ 400A	30.0	64.0	26.0	61.5	32.0	1100
	<i>762.0</i>	<i>1625.6</i>	<i>660.4</i>	<i>1562.1</i>	<i>812.8</i>	<i>498.9</i>
4 @ 400A	38.0	64.0	26.0	61.5	40.0	1400
	<i>965.2</i>	<i>1625.6</i>	<i>660.4</i>	<i>1562.1</i>	<i>1016.0</i>	<i>635.0</i>
2 @ 800A	38.0	70.0	26.0	67.5	40.0	1400
	<i>965.2</i>	<i>1778.0</i>	<i>660.4</i>	<i>1714.5</i>	<i>1016.0</i>	<i>635.0</i>
3 @ 800A	56.0	70.0	26.0	67.5	58.0	2100
	<i>1422.4</i>	<i>1778.0</i>	<i>660.4</i>	<i>1714.5</i>	<i>1473.2</i>	<i>952.5</i>
4 @ 800A	72.0	70.0	26.0	67.5	74.0	2600
	<i>1828.8</i>	<i>1778.0</i>	<i>660.4</i>	<i>1714.5</i>	<i>1879.6</i>	<i>1179.3</i>
2 @ 1000 or 1200A	56.0	70.0	26.0	67.5	58.0	2000
	<i>1422.4</i>	<i>1778.0</i>	<i>660.4</i>	<i>1714.5</i>	<i>1473.2</i>	<i>907.2</i>
3 @ 1000 or 1200A	82.0	70.0	26.0	67.5	84.0	3000
	<i>2082.8</i>	<i>1778.0</i>	<i>660.4</i>	<i>1714.5</i>	<i>2133.6</i>	<i>1360.8</i>
4 @ 1000 or 1200A	106.0	70.0	26.0	67.5	108.0	3800
	<i>2692.4</i>	<i>1778.0</i>	<i>660.4</i>	<i>1714.5</i>	<i>2743.2</i>	<i>1723.6</i>