

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

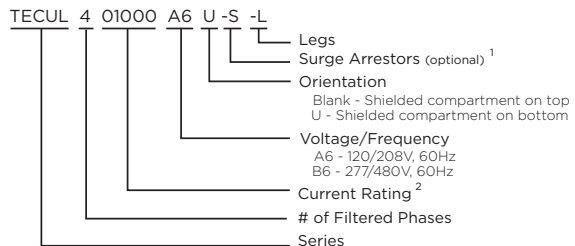


UL Recognized Filters



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

How to Order:



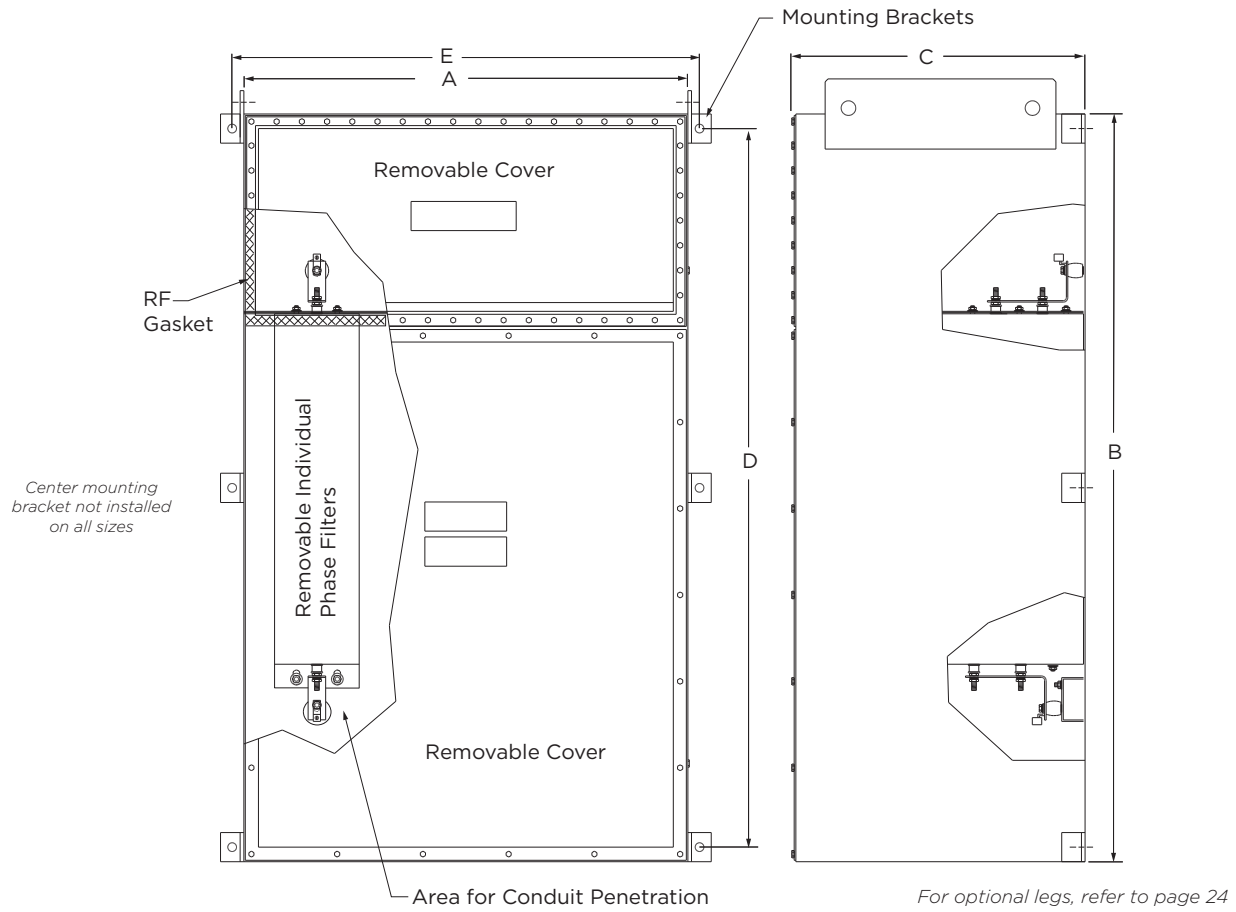
Examples:

- 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>