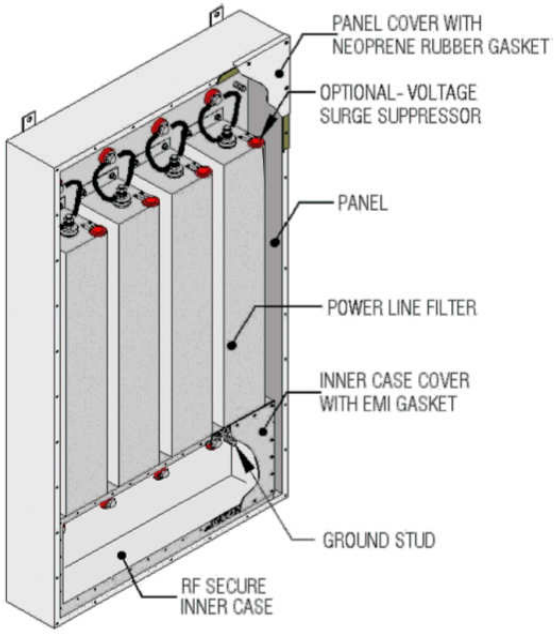
Facility Power Line Filter Panels

GFP78201 Series Capacitive Input

100 dB from 14 KHz ~ 18 GHz



PANEL OPTIONS

GFP78201	-4x	075	-00
PANEL MODEL	NUMBER OF FILTERS * -2x -3x -4x	Current Rating (AMPS)	OPTIONS 00-Standard no options 01-Legs 02-Voltage indicator lights 03-MOVs 04-Legs+Lights 05-Legs+MOV 06-Lights+MOV 07-Legs+Light+MOV

* One filter per conductive path. For example: 3 phase, 4-wire circuit with 3-line and 1-neutral would use a 4x panel.

Product Summary

EMI/RFI Facility Power Line Filters are used to block unwanted signals and remove interference from entering or exiting through the power lines. Our GFP78201 Filter Panels have an insertion loss (Attenuation) of **100 dB from 14 kHz ~ 18GHz**.

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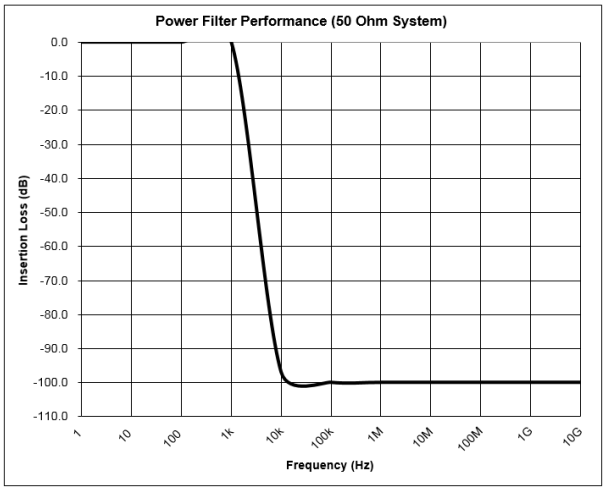
FUNCTIONAL CHARACTERISTICS

- Voltage Ratings:
  - o 24-1,000 VDC
  - o 120/208 VAC (50/60 Hz)
  - o 277/480 VAC (50/60 Hz)
- Voltage Drop:
  - o 2% maximum at full rated unity power factor load.
- Harmonic Distortion:
  - o 4% maximum at full rated unity power factor load
- Temperature Rating:
  - o MIL-PRF-15733
- Current Overload:
  - o 140% maximum current rating
- RF Radiation:
  - o Greater than 100 dB isolation
- Dielectric With-Standing Voltage:
  - o 2,200 VDC (prior to installation of discharge resistors)
- Insulation Resistance:
  - o MIL-PRF-15733 (prior to installation of discharge resistors)
- Insertion loss:
  - o 100 dB 14 KHz to 18 GHz
  - o 50/50 Ohm System



*Representation of Insertion Loss Specifications

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SPECIAL FEATURES

Phase Filters

Many of our GF78200 series High Attenuation phase
filters used in the GFP78201 series filter panels are UL recognized.

- Low Pass filter circuits ~ passive components which includes inductors, capacitors, resistors, and optional transient suppression devices
- Manufactured and tested per applicable portions of MIL-PRF-15733
- Filter cases 16 gage, CRS, plated or painted finish
- Sealed with welded and soldered seams for shielding effectiveness
- Discharge resistors incorporated to eliminate potential shock hazard

Panel/Enclosure

- Modified NEMA type fabricated panel of not less than 14 gauge cold rolled steel, polyurethane painted, or powder coated Gray Federal color 26307
- RF tight inner area secured with RF gasket for 100 dB minimum shielding effectiveness, 14 kHz to 18 GHz
- Pre-wired standoff insulators and cable lugs
- Lifting ears included
- Front cover access to filters and terminal standoffs
- Floor or wall mount options

Applicable Specifications

- Military Specifications
  - o MIL-PRF-15733 General
- Military Test Methods
  - o MIL-STD-202 Component Parts
  - o MIL-STD-220 Insertion Loss
  - o MIL-STD-285 Shielding Effectiveness
- NFPA 70/2011 National Electrical Code Standards

Some of the Available Options

- EMP shield and surge Suppressors
- HUB Fitting Penetration Accessories
- Legs (8.0 Inch optional up to 250 Amp. Standard on 300 Amp and above)
- Voltage Indicator Lights

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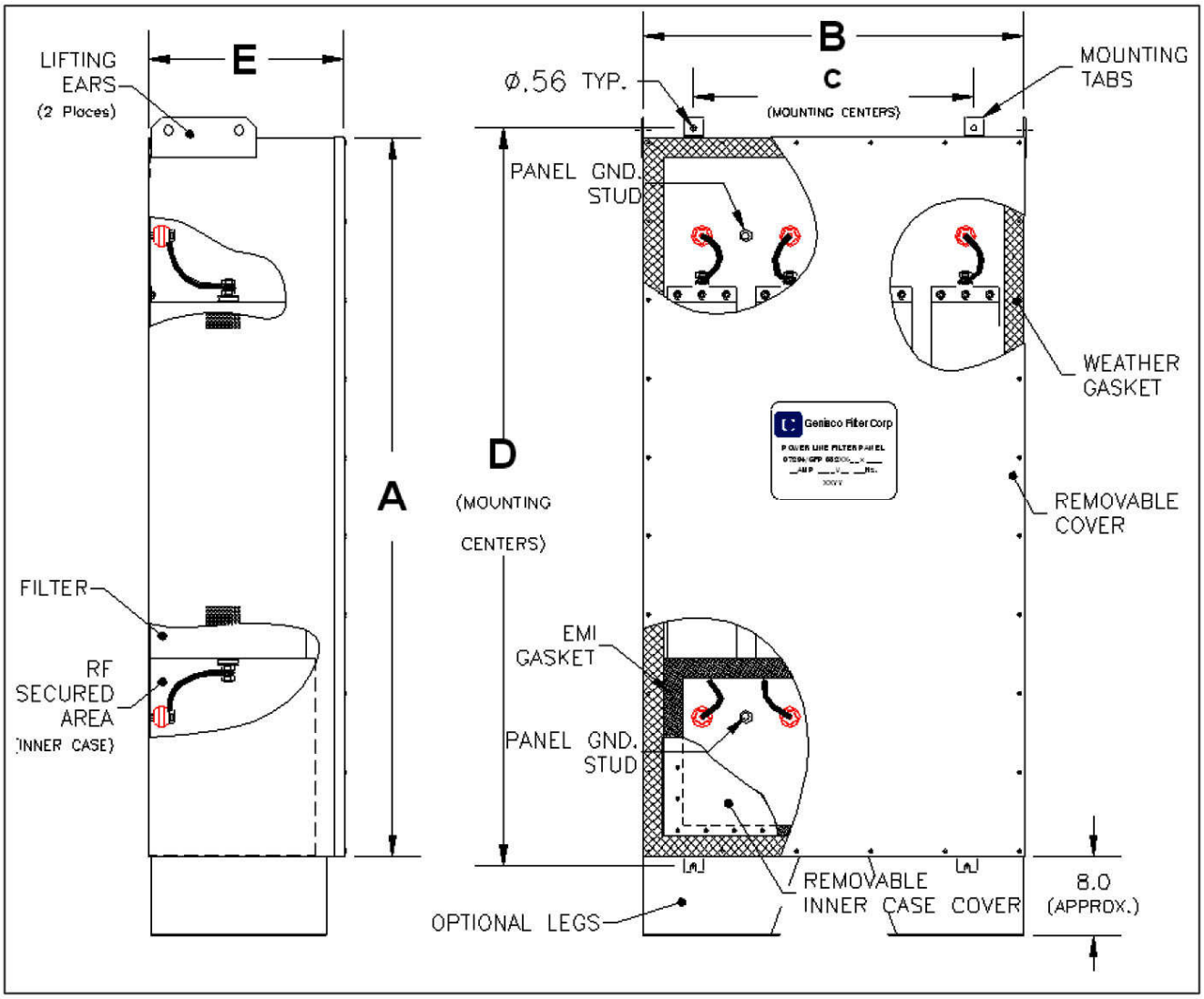

GF78201
Mechanical Dimensions

Table 1: GF78201 Filter Panel Mechanical Dimensions

UL RECOGNIZED GF78200 PHASE FILTERS USED		Quantity of Filters and Current Rating*	A	B	C	D	E	Approx Weight (lbs)
UL 1283	YES	4x30 Amp	34	23	17	35.25	8.25	225
	YES	4x60 Amp	42	26	20	43.25	8.25	300
	YES	4x100 Amp	42	26	20	43.25	8.25	325
	YES	4x150 Amp	51	30	24	52.3	10	400
	YES	4x200 Amp	51	30	24	52.3	10	450
		4x250 Amp	51	30	24	52.3	10	450
		4x300	80" overall. Case 72". Legs add 8" **	39	N/A	Side tab	14	900
		4x400	80" overall. Case 72". Legs add 8" **	39	N/A	Side tab	14	900

**** Legs are standard on 300 Amp and larger Filter Panels.**
***Other Circuit Configurations and Current Ratings Available Upon Request • Dimensions are in Inches**

The UL recognized component logo signifies that the GF78200 filter insert, used in this series of EMI filter Panels have passed the rigorous UL 1283 standard. Recognized components conform to the same UL standard as UL Certified devices, differing only in the use of the device. Our UL recognized GF78200 filters are designed to be a component installed within our GFP series Filter Panels, rather than a standalone device.

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