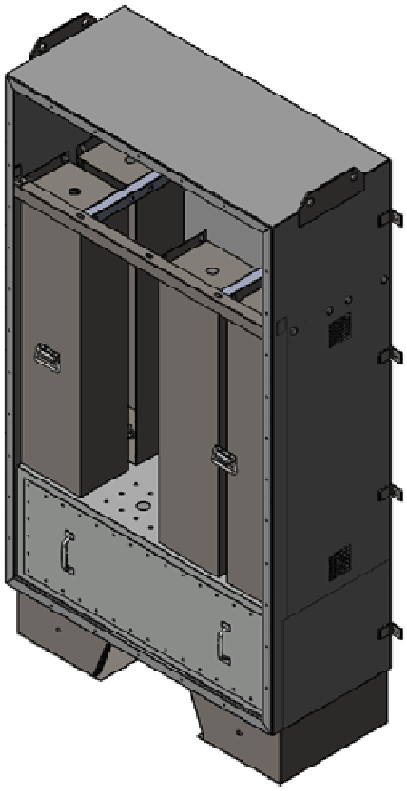
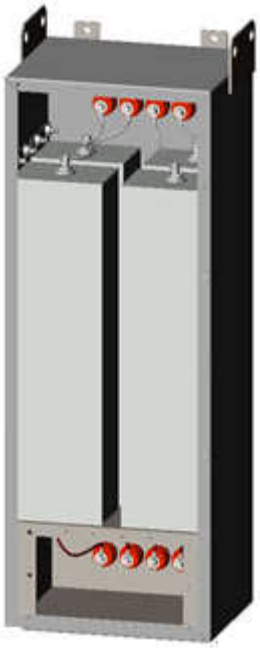
Facility Power Line Filter Panels

GFP88201 Capacitive Input
High Attenuation
100 dB from 14 kHz ~ 18 GHz





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 GFP88201 Series Filter Panels have an insertion loss (Attenuation) of 100 dB from 14 kHz to 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)
  - o Voltage Drop: 2% maximum at full rated unity power factor load.
  - o Harmonic Distortion: 4% maximum at full rated unity power factor load
  - o Temperature Rating: MIL-PRF-15733
  - o Current Overload: 140% maximum current rating
  - o RF Radiation: Greater than 100 dB isolation
  - o Dielectric With-Standing Voltage: 2,200 VDC (prior to installation of discharge resistors)
  - o Insulation Resistance:MIL-PRF-15733 (prior to installation of discharge resistors)
- Insertion loss:
  - o >60 dB @ 14 kHz
  - o 100 dB @ 100 kHz to 18 GHz
  - o 50/50 Ohm System

SPECIAL FEATURES

Filters

- 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

Enclosure

- Modified NEMA type fabricated panel of not less than 14 gauge cold rolled steel painted Gray (Std. Paint Color)
- RF tight inner area secured with RF gasket for a minimum 100 dB shielding effectiveness, from 14 kHz to 18 GHz.
- Pre-wired standoffs and cable lugs
- Lifting ears included
- Front cover access to filters and terminal standoffs
- Floor or wall mount option, (some models.)

Applicable Specifications

- Military Specifications: 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
- UL 1283

Available Options

- EMP Shield Surge Suppressors
- Legs

Mechanical Dimensions

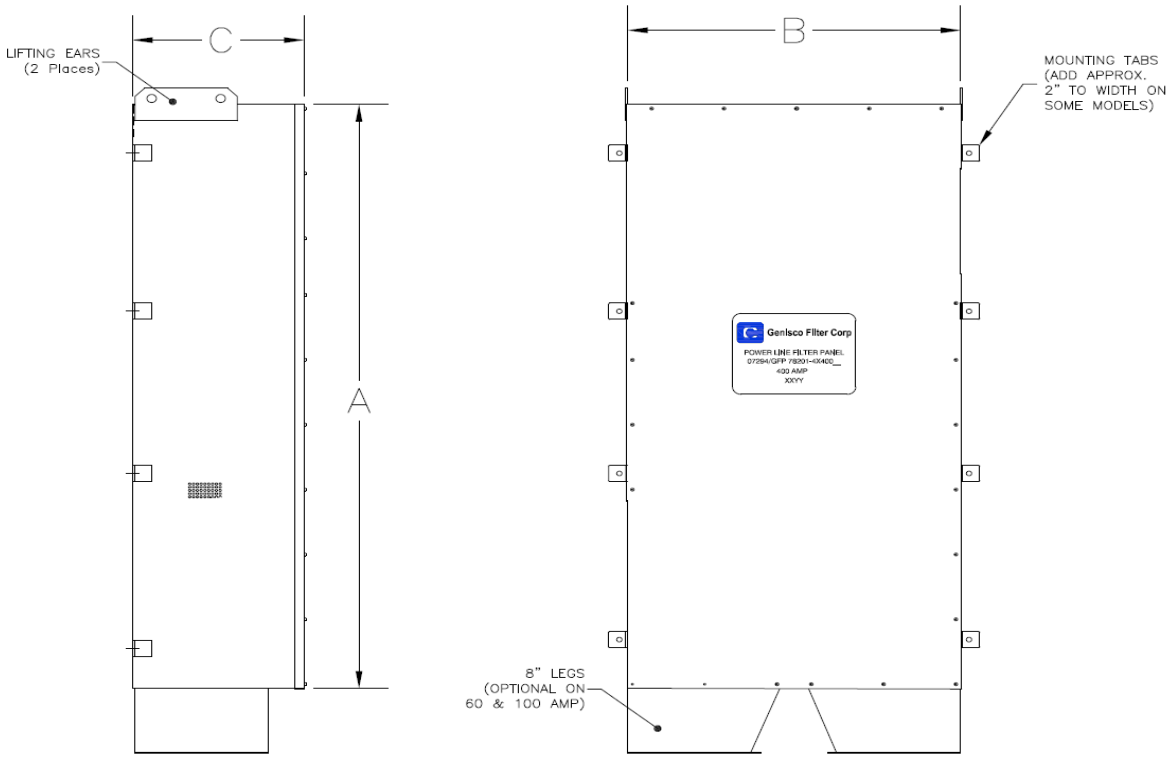

Table 1 Mechanical Dimensions (listed in inches)

Number of filtered connections in panel and amperage rating	A	B	C	Approx Weight (lbs)
4x60 & 100 Amp	42	16	12	400
4x300 Amp	62.25	35.5	16	1,225
4x400 Amp	62.25	35.5	16	1,200
4x500 Amp	62.25	35.5	16	1,500
4x600 Amp	82" overall (74" case + 8" legs)	45	20	2,200
4x800 Amp	82" overall (74" case + 8" legs)	45	20	2,200
2x1200 & 1600 Amp	82" overall (74" case + 8" legs)	45	20	2,200
4X1200 & 1600 Amp (Modular system. Two-2x1200 or 2x1600 panels required	Each 2-wire panel, 82" overall (74" case + 8" legs)	45	20	2,200

PART NUMBER BREAKDOWN USING A **GFP88201-4X100-00** AS THE EXAMPLE:

- GFP88201 = FILTER PANEL SERIES
- -4x100 = Number of individual filter elements installed within the filter enclosure. This is followed by the amperage rating. In this example there are four filter elements each rated for 100 amps.
- -00. The last one or two characters denote options or special manufacturing notes.

Note: Filters are not designed or intended for short circuit, and are not provided with integral overcurrent protection, or any overcurrent protection. Intended to be installed with suitably rated overcurrent protection upstream to prevent all short-circuit scenarios from occurring. When a filter is installed downstream of an approved overcurrent protection device (such as a circuit breaker) there is no need for the filter to have an SCCR rating itself, since the upstream protection device will provide protection to the filter.

Please contact us for specific model information and pricing or with any questions you may have.

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