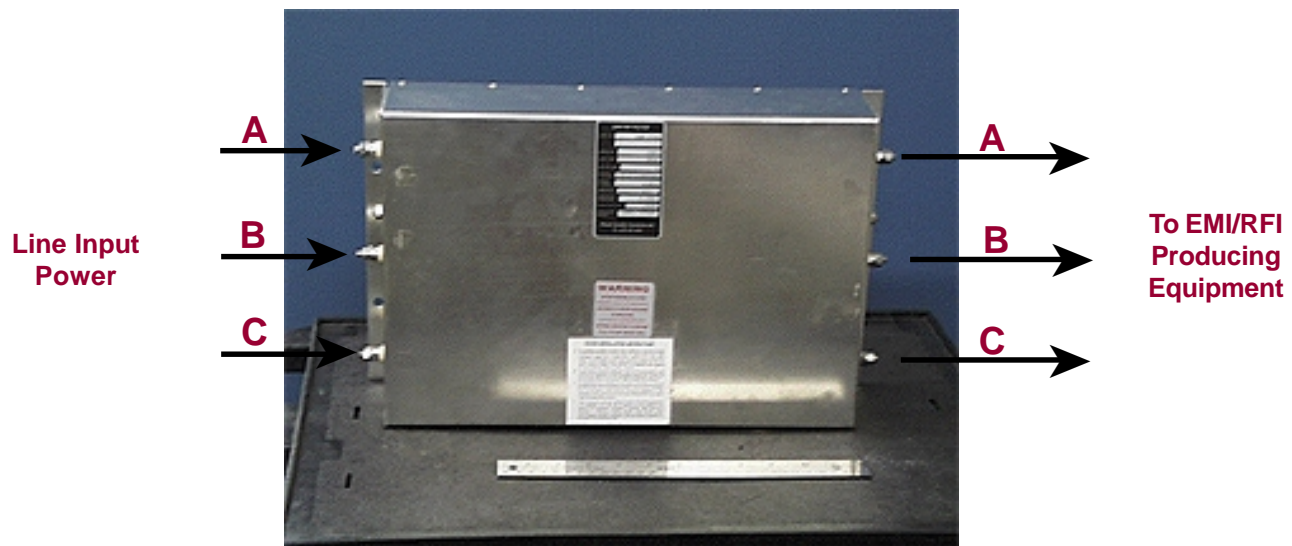


# Gold Label EMI/RFI Filters

From Power Quality Solutions Inc.

**PQSI GENERAL EMI/RFI FILTER SPECIFICATIONS:** The below figure depicts PQSI UL listed Model LMF-3746A EMI/RFI Filter. The filter's overall dimensions are ~17.5"W x ~11"D x ~4"H and the filter weighs about 50 pounds. This three-phase filter is rated at a line input of 600V/350V, 80 Amps, 60 Hz and has an insertion loss of at least 100dB from 50 kHz to 100 kHz.

The LMF-3746A Component-Facility Filter was evaluated in accordance with the Standard for Electromagnetic Interference Filters, UL 1283 and is listed by UL as having been tested to the requirements of UL1283, Fourth Edition, and CAN/CSA C22.2 No. 8, Fourth Edition. The PQSI LMF-3746A facility filter is intended to be vertically mounted on a wall or similar surface by appropriate service personnel and may be mounted into a NEMA type enclosure for additional protection. Suitable terminals for connection to branch circuits in accordance with ANSI-NFPA No. 70-1987 are provided.



**FIGURE PQSI LMF-3746A EMI/RFI FILTER**  
 Line Input Rated — 600V/350V 3 Phase 80 Amps  
 Drive Input Rated — 600V/350V 3 Phase 80 Amps

**Filter Enclosure:** Constructed of cold rolled steel ~ 0.06 thick with welded covers. The enclosure is filled with epoxy and hermetically sealed.

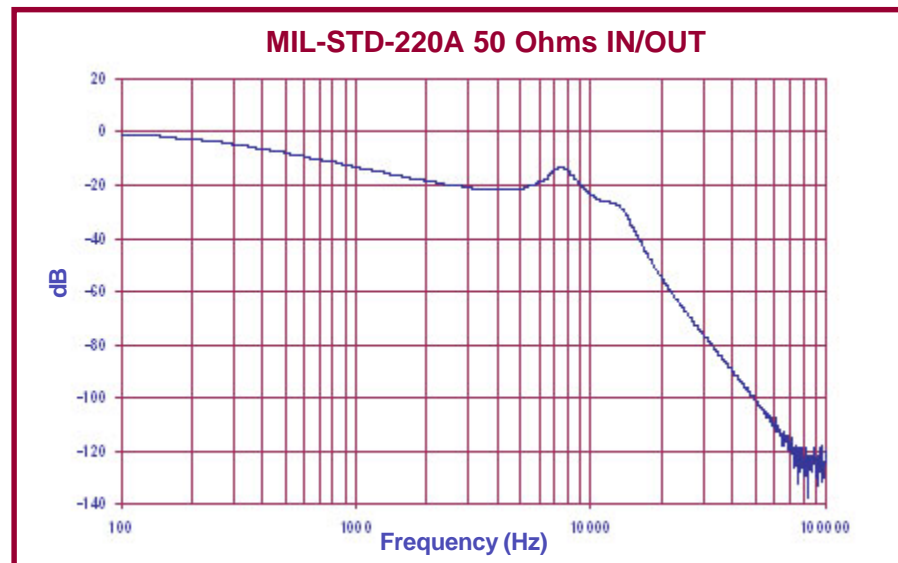
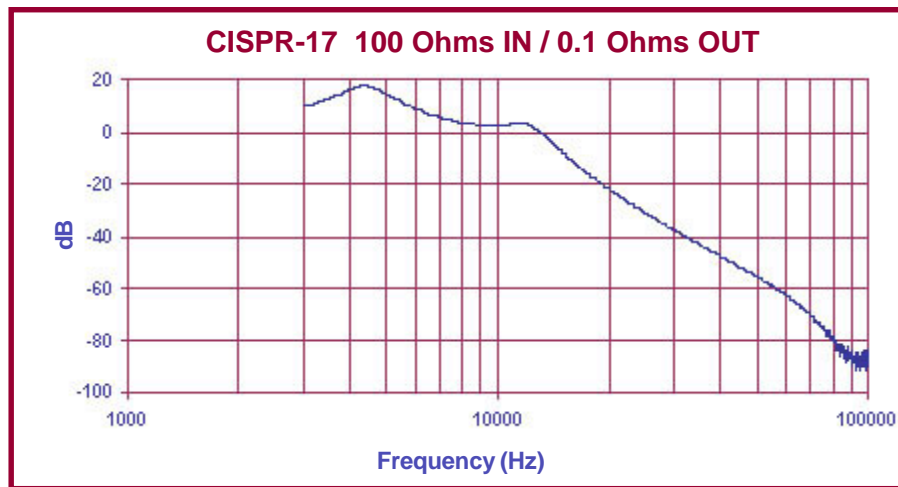
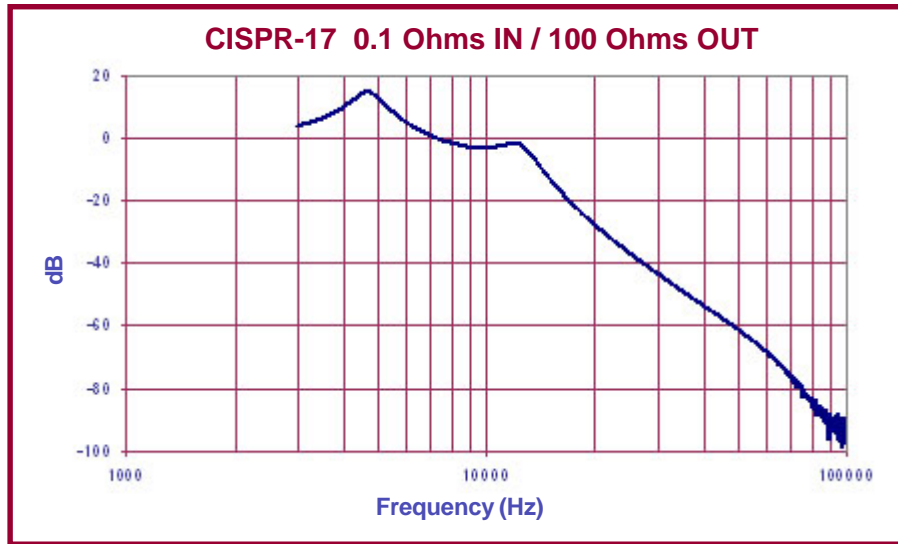
**Filter Terminals:** Two (2) one on each filter enclosure end are provided for grounding and consist of a threaded screw, 0.37 inches in diameter and 1.5 inches long welded to the case. Three (3) input and three (3) output pressure terminals secured through a ceramic insulator are suitable for use with 4-3 AWG wire for connecting the inputs into the filter and outputs to the EMI/RFI producing equipment. Internally, the filter utilizes an arrangement of nine (9) 10uf @ 600Vac bypass capacitors, six (6) inductors rated ~46uH, and three (3) wire wound resistors. Internal components are insulated with Kraft paper, a minimum of 1/16 inch thick provided between the enclosure, capacitors, and inductors.

**Ambient Operating Range:** -10° C (14°F) to +55° C (131°F)

**Applied Environment:** Survives stress and vibration typical of an industrial application

**Steady-State Input Voltage Range:** 100dB insertion loss with ±10% normal line variations

Typical CISPR-17 and Mil-Std 220A performance curves follow:



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