

MFJ-1164 AC Line RFI Filter

Introduction

Thank you for purchasing the MFJ-1164 AC Line RFI Filter. This is a versatile AC Filter that can be used with all types of sensitive equipment that needs AC line protection. Power lines are subject to a variety of radio frequency interference, transients, surges, and noise that can cause damage to sensitive electronic equipment such as computers, televisions, audio equipment, etc. The MFJ-1164 empowers you to protect your valuable equipment and data from unpredictable power disturbances.

Operation

The AC Line RFI Filter eliminates noise and RF interference by providing inductive isolation and capacitive decoupling of differential and common mode RFI signals. This will assure clean AC power by eliminating lower voltage noise missed by surge protection technology. These components block and shunt signals to earth ground and reduce data errors, computer lock-up, and audio video interference. It also provides super fast, nano-second overvoltage protection to protect against surges and erroneous transients.

Features

The AC Line RFI Filter is designed to operate at 120 Volts AC and can handle up to 25 Amps total at a maximum power of 3000 Watts. Four US Standard AC outlets are provided so you can protect multiple devices simultaneously. The MFJ-1164 uses a heavy-duty 6ft. AC line cord that can withstand the stress and strain of long-term usage. Mounting tabs support permanent installation on a wide variety of surfaces.

If you want to protect your sensitive equipment by improving the power quality inside your home, reducing power line harmonics, and enhancing your overall electric energy utilization, this is an inexpensive solution for you. Constructed from a sturdy aluminum chassis, the unit measures only 2"H x 3 1/2"W by 11"L with plenty of room to plug in the largest of AC adapters. The AC Line RFI Filter includes an additional ground and is fuse protected.



Figure 1: MFJ-1164 AC Line RFI Filter

WARNING: DO NOT connect to an ungrounded outlet without connecting to the chassis ground. Install the AC Filter away from excessive moisture or where other conductive contaminants are present. Never install electrical wiring during an electrical storm.

Getting Started

Installation of the MFJ-1164 is fast and easy:

1. **Choose a convenient location** in close proximity of sensitive equipment that you want to protect. Make sure the location that you have chosen is cool, dry, and well ventilated.
2. **Connect the AC Line RFI Filter.** Plug the AC line cord into a US Standard 120VAC grounded three-prong utility outlet.
3. **Connect the equipment to the AC Line RFI Filter.** Plug the equipment that you want to protect into any of the four outlets on the filter. (two- or three-prong AC cords will be protected.)
4. **Connect the earth ground.** A good earth ground should be installed and connected to the case of the MFJ-1164. This will provide the best possible performance of the filter as well as safety for the operator.
5. **Mount the filter,** if desired, using the mount tabs on each end of the filter.
6. **A 30 Amp fuse is used** to protect your equipment from a high current surge. If the fuse should blow in the case of an electrical storm, transients or surges, replace the fuse with a 30 Amp glass tube type fast blow fuse.

CAUTION: DO NOT overload your AC Line RFI Filter. Each outlet can handle a load of up to 15 amps, but do not exceed a TOTAL load of more than 25Amps for all outlets.

Specifications

System

| | |
|--------------------------------------|---------|
| AC Voltage | 120VAC |
| Frequency | 50/60Hz |
| Maximum Continuous AC Current Rating | 25A |
| Maximum Continuous Power Rating | 3000W |
| Fast Blow Fuse | 30A |
| AC Outlets | 4 |

Output

| | | |
|-------------------------|--------------|-----------------|
| Output Current Capacity | (per outlet) | 15A |
| Outlet Quantity | | 4 |
| Outlet Type | | 3 NEMA 5-15R |
| Outlet Orientation | | Single row of 4 |
| Outlet Spacing | | 2.8 in. |

Input

| | |
|--------------------------------|-----------------------|
| Input Connection Type | NEMA 5-15P input plug |
| Input Cord Length | 6 ft. |
| Recommended Electrical Service | 15A, 120VAC |

Physical

| | |
|------------------|--------------------|
| Unit Dimensions | 2"H x 3.5"W x 11"L |
| Unit Weight | 2.0 lbs |
| Construction | Sturdy Aluminum |
| Mounting Tabs | 2 |
| Housing Color | Black |
| Receptacle Color | Black |
| AC Line Color | Black |

In Case of Difficulty

If the fuse blows, outlets will cease to provide power. Reduce the load on the filter down to the units amp rating by unplugging excess equipment, then replace the fuse.

Technical Assistance

If you have any problem with this unit first check the appropriate section of this manual. If the manual does not reference your problem or your problem is not solved by reading the manual you may call *MFJ Technical Service* at **662-323-0549** or the *MFJ Factory* at **662-323-5869**. You will be best helped if you have your unit, manual and all information on your station handy so you can answer any questions the technicians may ask.

You can also send questions by mail to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, MS 39759; by Facsimile to 662-323-6551; or by email to techinfo@mfjenterprises.com. Send a complete description of your problem, an explanation of exactly how you are using your unit, and a complete description of your station.

Schematic

