

Power Conditioner line filter NF-3TR SE



For best sound results



Product overview of the *mfe* line filter NF-3TR SE

A line filter for all high-end hi-fi components

Specially designed for demanding home and professional cinemas



- 12 specially filtered sockets, including 4 time-shifted power sockets incl. inrush current limiter, e.g. for power amplifiers.
- Output transformer/isolating transformer for maximum interference suppression and output voltage without DC components
- Overvoltage protection
- Power consumption max. 16 amps
- Rated power 3000 VA

No dynamic losses!

The higher precision of the spatial resolution and reproduction is clearly audible.

The bass range is more controlled.

The sound comparison is always verifiable and reproducible.
The result is immediately apparent after the first bars.



**Want to know more?
Simply give us a call!
Tel.: +49 (0) 2432 80726**

The function of the *mfe* - Line filter

To achieve the best sound results of your high-end hi-fi system, optimum power supply is of great importance.

Power disturbances/interference voltages

Our power supply network, specified in Germany with 230 V (permissible tolerance: -15% - ... +10% / 50 Hz +/- 1%), is a very good carrier for network interferences of all kinds, since all loads have the sockets connected to each other. Consequently (as a result of the ever-present network impedance), the mains voltage is influenced by each load according to its current consumption – each electrical device not only draws power from the power grid, many also emit interference voltage to the grid, which spreads for kilometres. If these external interference voltages reach your high-end hi-fi system unfiltered, they will exhibit different effects. Also, the interior fluctuation voltages add up, which are created by the associated hi-fi components as the devices may influence each other substantially. This may include any of the following disturbances:

- Undervoltage due to high load
- Voltage dips due to switch-on processes in case of sudden short-term power consumption
- Flicker interferences, recognizable by brightness fluctuations of lamps
- Overvoltage due to switch-off processes
- Voltage peaks (transients), e.g. caused by lightning strikes
- Periodic harmonics of 50 Hz occur, for example, due to the non-sinusoidal current drain of power supplies with rectifier and charging electrolytic capacitor (traditional design) or phase angle control (e.g. dimmer)
- High frequency, the power grid is a good antenna for electromagnetic waves, which can reach the inside of devices as interference signals via the socket and can easily cause malfunctions.

Sound influence/sound interference

If interference voltages reach your high-end hi-fi system unfiltered, they will exhibit different effects. Generally, obfuscation of the mid-high range occurs, combined with a decrease in the spatial resolution and playback quality, but also clicking and crackling noises are possible. You may notice that your system sometimes sounds better or worse. But you can only hear in a direct comparison what potential is really lost by unclean power.

Troubleshooting/function

In order to avoid loss of sound, the use of a line filter/power conditioner, which is designed for the special field of application, is suitable. Power supply filters from *mfe* provide connecting conditions which ensure that fluctuation voltages in the power supply are blocked and that devices are decoupled over the whole audible range and beyond.

Hearing comparison

With a hearing comparison, you will be able to determine that the above mentioned fluctuations in power supply are rectified. The higher precision of the spatial resolution and reproduction is clearly audible. The bass range is more controlled. Even in power supplies that are free of fluctuations (this is hardly ever the case), the sound quality is very good thanks to the decoupling effect of the *mfe* power supply filters. The sound comparison is always comprehensible and reproducible.

**For more questions on the subject of power supply/power supply filters,
please do not hesitate to contact us.**

Equipment features and technical specifications

- Casing: Metal casing, black
- Dimensions / (WxHxD): 483 x 152 x 390 mm
- Front panel: 10 mm thick, black, silver grey, red or champaign-gold anodised, central on/off switch, LED indicators for operating status
- Weight: ~ 26 Kg
- 12 Output sockets:
 - 4 Schuko sockets for output stages, sequentially switched, with inrush current limiter, max. 12 A
 - 4 Schuko sockets for medium loads, max. 6 A
 - 4 Schuko sockets for digital loads, max. 6 A
- Isolating transformer: eliminates DC components, interference suppression, zero-related output
- Rated power: 13 A / 3000 VA / 230 V ~
- Lightning protection: integrated surge arrester
- External fuses: 1 x 16 AT / 1 x 6.3 AT
- Power connector: Neutrik PowerCON built-in connector
- Power cable: 3 x 3 mm² mfe special power cable 2.50 m long, Schuko plug to PowerCON coupling
- Remote control: On/Off, also manually switchable

Warranty

The warranty period for the device is 2 years.

Technical changes and errors reserved!



Development - Production - Service

Tube Electronics • Speaker • Digital Converter • Power Line Filter Technology
High-End Accessoires • Special Components • Repairs • Modifications

Special designs of all kinds