

CleanSweep® Single Phase AC Power Line EMI Filters for EMC Compliance

OnFILTER® CleanSweep® EMI filters provide substantial reduction of electrical noise on power lines emanating from equipment in both test lab and in real-life situations. Innovative design accomplishes maximum noise suppression of signals polluting your power lines, freeing sensitive equipment from harmful interference.

This model of CleanSweep® filter provides cost effective and instantaneous solution hard-to-fix conducted emission problems with equipment which are too expensive or too lengthy to correct otherwise. CleanSweep® filters provide excellent attenuation at the lowest end of the spectrum where most of commodity filters provide little or no attenuation.

Clean power is essential for uninterrupted and problem-free operation of electrical and electronic equipment. As electromagnetic interference (EMI) spreads through power lines and ground, it causes downtime and errors in today's equipment and may inflict component damage.

Filters are very easy to install - just plug it into the wall outlet and plug your equipment into the outlet on the filter.



Various configurations available

Applications

- Electronic manufacturing
- Semiconductor fabrication
- Test and measurements
- Data centers
- Industrial robotics
- Medical
- Military and aerospace
- Wherever EMI is an issue

Features

- Easy plug-in installation
- Optimized for power lines
- Effective noise suppression for all types of noise
- Models for up to 250V AC 30A

Increased Up-Time

OnFILTER® CleanSweep® filters reduce equipment downtime caused by EMI and increase its performance and productivity by providing clean power to your sensitive equipment

Real-Life Applications

Unlike commodity filters designed for compliance measurements in a laboratory environment, CleanSweep® filters are optimized for effective suppression of noise in actual applications providing superb attenuation at lower frequencies where regular filters fail

Exceptional Low Frequency Attenuation

OnFILTER® CleanSweep® filters provide high levels of attenuation at lower end of the spectrum in both differential (between power line wires) and common-mode (between power line and ground) modes.

Advanced Surge Protection

OnFILTER CleanSweep® series filters add substantial performance improvements to conventional surge protection by reducing residual high-voltage "spikes" down to a negligible level

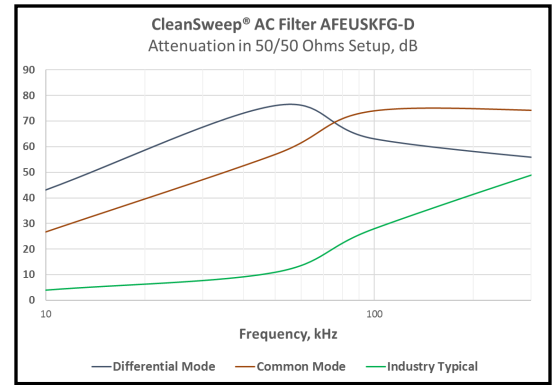
CleanSweep®
AFxxxx-D Series
Single Phase 10A
Power Line AC Filters



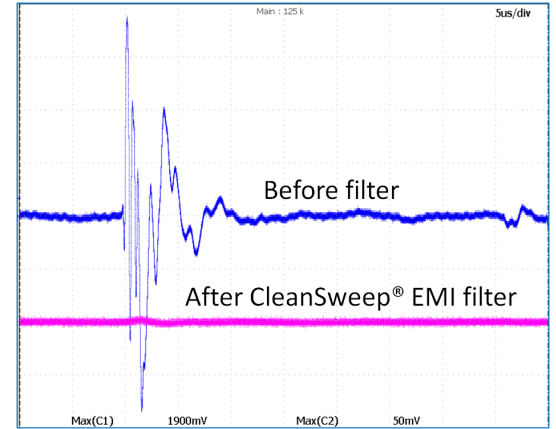
Specification

OnFILTER CleanSweep® filters utilize proprietary technology to provide maximum noise suppression where commodity filters do not perform well, especially in both test laboratory environment and in actual installation.

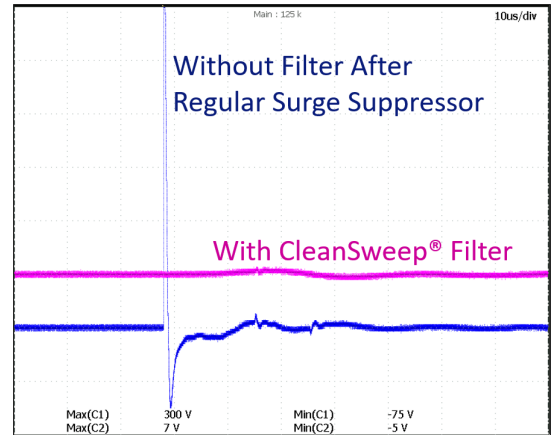
Parameter	AF A Series Filter
Rated Voltage, RMS	110...250V
Rated Current, RMS	10A
Leakage Current	
Standard models	<3.5mA
Medical version	<0.5mA
Power Indication	LED
Dimensions (WxDxH)	6.15"*7.0"*3.30"
(rubber feet mount)	157*180*84mm



Typical Frequency Domain Attenuation



Typical Transient Performance (Differential)



Typical Power Surge Attenuation

Application Notes

If you looking at this datasheet on a computer, you can click on any of the links below to the Application Notes which are available in the [Library](#) on our web site:

- [OnFILTER Advantage - Technology Summary](#)
- [CleanSweep® EMI Filter in Surge Protection](#)
- [CleanSweep® EMI Filters Protect Data Centers](#)
- [CleanSweep® AC Filters and UPS](#)
- [Management of Power Line Communication](#)

Ordering Information

Please select the type of filter most suitable for your application. Most important parameter you need to select is the type of an outlet. Note that although the filter base itself may be rated for 20A, the maximum current rating for a particular model is defined by the type of the outlet

More details available in the App. Note [“How to Specify CleanSweep AC Power Line Filter”](#) on our web site.



This example is for an AC single-phase filter for Schuko outlet, 250VAC 10A

Part Number: **AF EUSK FG-D**

Type of Filter: AC filter - AF

Outlet Code: (see table)

EMC Application:

CleanSweep AF -D Series 10A

OUTLET	ORDERING CODE	OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
NEMA 5-15	N515 -125V 10A	NEMA 6-15	N615 -250V 10A	SCHUKO	EUSK -250V 10A
BSS46	BS546 -250V 10A	U.K.	EUUK -250V 10A	TERMINAL BLOCK SINGLE PHASE 10A	TS03A
NEMA L5-15	L515 -125V 10A	NEMA L6-15	L615 -250V 10A		



OnFILTER, Inc.
730 Mission Dr. Ste. 102
Santa Cruz, CA 95060
U.S.A.
Tel. +1.831.824.4052
FAX +1.206.350.7458
www.onfilter.com
info@onfilter.com

