

CleanSweep® AF Series AC Power Line EMI Filters

Clean Power Free of High-Frequency Noise

OnFILTER CleanSweep® EMI filters provide noise-free AC power for your sensitive equipment in end-user installations. Innovative patented design accomplishes maximum noise suppression of signals polluting your power lines and ground, freeing your equipment from harmful interference.

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.

Unique design of OnFILTER' CleanSweep® series focuses on the properties of real-life signals on power lines and ground and produces maximum attenuation of the "worst offenders" on power lines. In addition to EMI filtering, CleanSweep® AC EMI filters provide unparalleled reduction of transient surges unattainable by regular surge protectors.

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
- Industrial processes
- Robotics
- R&D
- Test and measurements
- Data centers
- Military and aerospace
- Residential—EMI reduction from pumps and motors
- 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 20A

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

Suppression of Noise on Power Lines and Ground

OnFILTER' CleanSweep® filters provide suppression for differential mode (between power' live and neutral), common-mode (between live, neutral and ground) and, uniquely, for ground itself

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

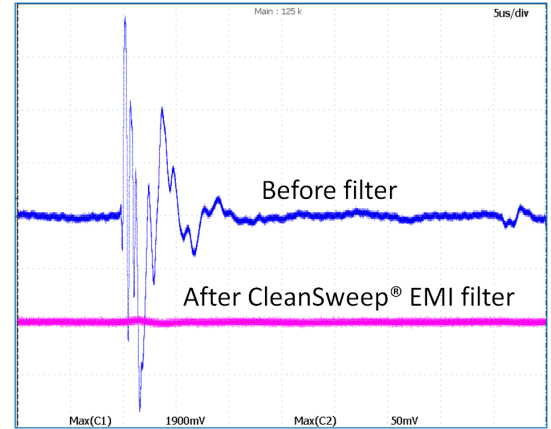
CleanSweep®
AF Series
Single Phase 13...20A
Power Line AC Filters



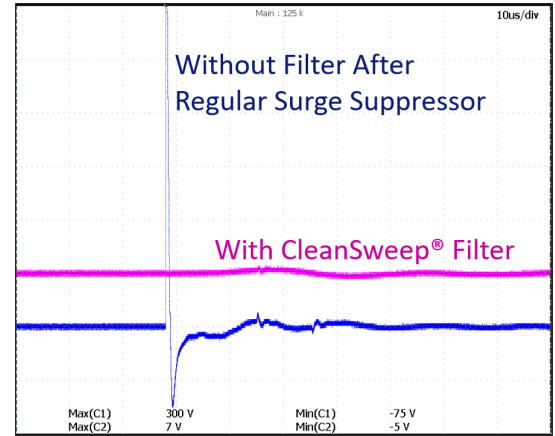
Specification

OnFILTER CleanSweep® filters utilize patented technology to provide maximum noise suppression in actual installations, not just in the controlled laboratory environment.

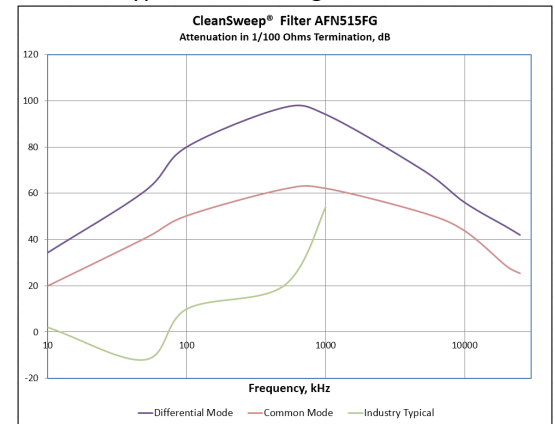
Parameter	AF Series Filter
Rated Voltage, RMS	110...250V
Rated Current, RMS depending on outlet type	13 ... 20A
Transient Signal Attenuation (Typical)	
Differential Mode	24dB
Common Mode	20dB
Leakage Current	
Standard models	<3.5mA
Medical/Residential version	<0.5mA
Power Indication	LED
Dimensions (WxDxH) (rubber feet mount)	6.15"*6.1"*3.20" 157*155*81mm



Typical Performance (Differential Mode)



Typical Power Surge Attenuation



Typical Frequency Domain Attenuation

AF Series Filters Options

Mounting

By default the filters come with rubber feet. Should you need to fasten a filter in place, we offer mounting flanges option—add "K" to the model number. Contact us for mounting dimensions.



Hospital/Medical Grade

These filters use lower leakage current and, as a result, have slightly lesser common mode attenuation. Suitable for non-invasive medical equipment. Our filters shall never be used in life- or mission-critical applications where a failure of a filter may lead to an injury or loss of life, or property damage.

Residential Grade

These filters are approved for in-home applications, such as for Hi-Fi equipment, reduction of EMI from pump and motors, and alike.

Ordering Information

Most important parameter you need to select is the type of your outlet. If in doubt, send us a photo of the outlet. The maximum current rating for a particular model is defined by the type of the outlet.

This example is for an AC single-phase filter for US-type 125V 20A outlet with ground filtering for general application, with rubber feet mount

Part Number: **AF N520 FG**

Type of Filter: 20A AC filter - AF

Outlet Code (see table): N520

Ground Filtering: Ground Filter - F

Application: General - G

Mount: Rubber Feet - Blank

CleanSweep AF Series 20A Family					
OUTLET	ORDERING CODE	OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
	N515 ~125V 15A		N615 ~250V 15A		EUSK ~250V 16A
	N520 ~125V 20A		N620 ~250V 20A		EUUK ~250V 13A
	309A1 IEC60309 2W3P (yellow) ~120V 20A		309B1 IEC60309 2W3P (blue) ~250V 16A		309B2 IEC60309 2W3P (blue) ~250V 20A
	L515 ~125V 15A		L520 ~125V 20A		BS546 ~250V 15A
	L615 ~250V 15A		L620 ~250V 20A		TS03A TERMINAL BLOCK SINGLE PHASE 20A



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