

CleanSweep® 20A 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 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.

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



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

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 20A
Power Line AC Filters



Specification

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

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

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 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

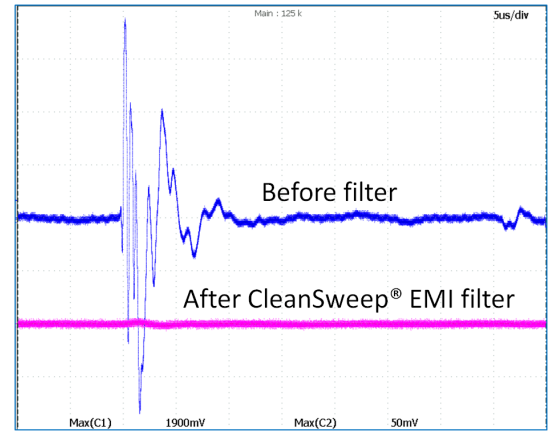
Ground Filtering: Ground Filter - F

Application: General - G

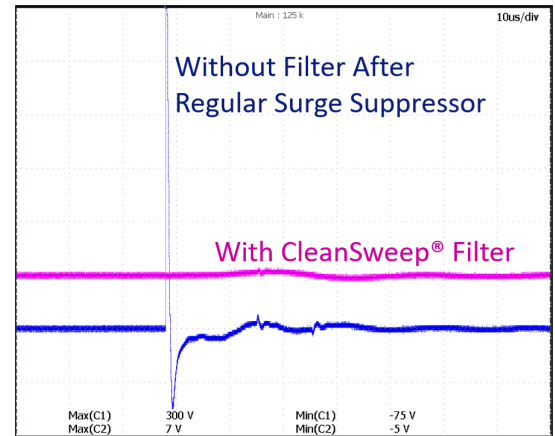
Mount: Rubber Feet - Blank

CleanSweep AF Series 20A Family

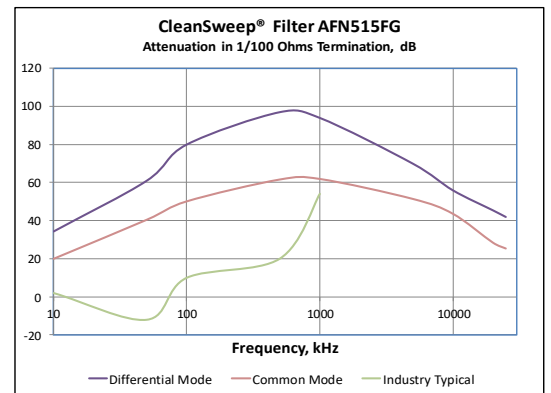
OUTLET	ORDERING CODE	OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
NEMA 5-15	N515	NEMA 6-15	N615	SCHUKO	EUSK
NEMA 5-20	N520	NEMA 6-20	N620	U.K.	EUUK
IEC60309 2W3P (yellow)	309A1	IEC60309 2W3P (blue)	309B1	IEC60309 2W3P (blue)	309B2
NEMA L5-15	L515	NEMA L5-20	L520	BSS46	BS546
NEMA L6-15	L615	NEMA L6-20	L620	TERMINAL BLOCK SINGLE PHASE 20A	TS03A



Typical Performance (Differential Mode)



Typical Power Surge Attenuation



Typical Frequency Domain Attenuation



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