

CleanSweep® 30A AC Power Line EMI Filters

Clean Power Free of High-Frequency Noise

OnFILTER CleanSweep® EMI filters provide noise-free AC power and ground 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. Terminal block interface is just as easy.



Various configurations available

Applications

- Electronic manufacturing
- Semiconductor fabrication
- Test and measurements
- Data centers
- Industrial robotics
- Military and aerospace
- Residential—HiFi and overall EMI
- 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

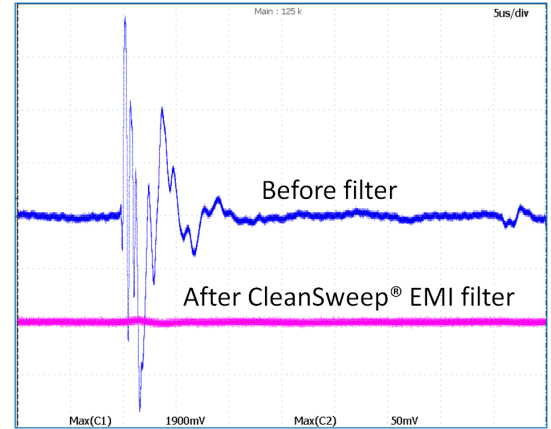
CleanSweep®
AF Series
Single Phase 30A
Power Line AC Filters



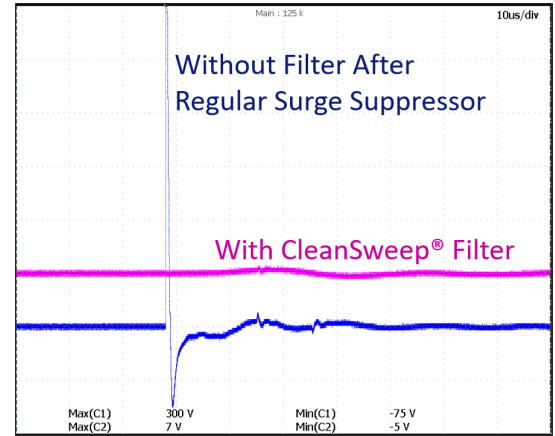
Specification

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

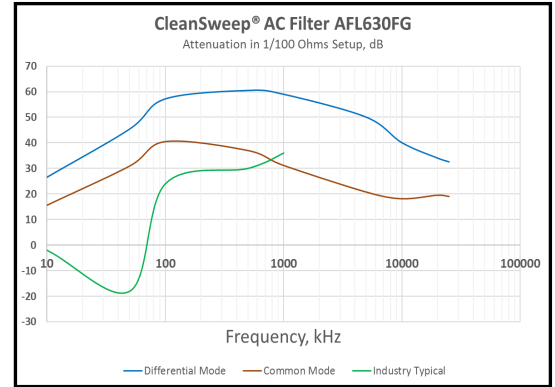
Parameter	AF 30A Series Filter
Rated Voltage, RMS	110...250V
Rated Current, RMS	30A
Transient Signal Attenuation (Typical)	
Differential Mode	24dB
Common Mode	20dB
Leakage Current	
Standard models	<3.5mA
Medical/Residential version	<0.5mA
Power Indication	LED
Dimensions (WxDxH)	6.15"*6.1"*3.20"
Rubber feet mount	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. Since there are no hospital grade plugs/outlets, use “R” grade instead for low-leakage applications.

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

Please select the type of filter most suitable for your application. Most important parameter you need to select is the type of an outlet.

This example is for an AC single-phase filter for US-type locking 250V 30A outlet with ground filtering for general application

Part Number: **AF L630 FG**

Type of Filter: 30A AC filter - AF

Outlet Code (see table): L630

Ground Filtering: Ground Filter - F

Application: General - G

Mounting: Rubber Feet - Blank

Note that there are no 30A hospital/medical grade outlets/plugs available. For low leakage current use “M” version

CleanSweep AF 30A Filters

OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
	L530 ~125V 30A		L630 ~250V 30A
	309A3 IEC60309 2W3P (yellow) ~120V 30A		309B3 IEC60309 2W3P (blue) ~250V 30A
	TS03B TERMINAL BLOCK SINGLE PHASE 30A		



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