

# CleanSweep® 10A AC Power Line EMI Filters

**BONDLINE**  
STATIC CONTROL SOLUTIONS

## 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.



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

### 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

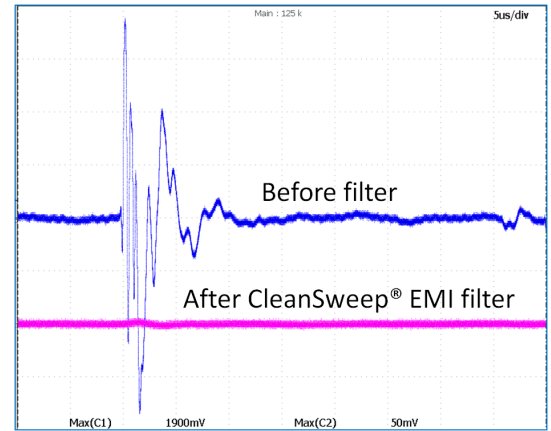
CleanSweep®  
AL Series  
Single Phase 10A  
Power Line AC Filters



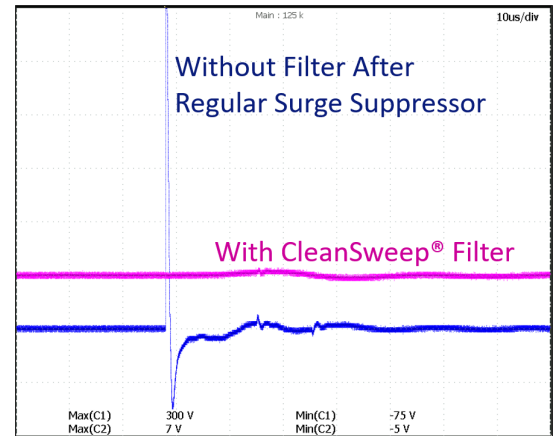
# Specification

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

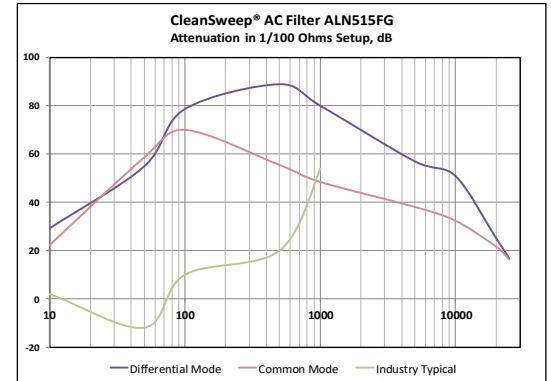
Parameter	AL Series 10A Filters
Rated Voltage, RMS	110...250V
Rated Current, RMS	10A
Transient Signal Attenuation (Typical)	
Differential Mode	24dB
Common Mode	20dB
Leakage Current	
Standard models	<3.5mA
Medical version	<0.5mA
Power Indication	LED
Dimensions (WxDxH)	6.15"x4.0"x2.92" 157*105*75mm



Typical Performance (Differential Mode)



Typical Power Surge Attenuation



Typical Frequency Domain 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 outlet itself may be rated for higher current, the maximum current rating for this filter model is still 10A.

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 NEMA5-15 outlet with ground filtering for general application with rubber foot mounting

Part Number: **ALN515FG**

Type of Filter: 10A AC filter - AL

Outlet Code (see table): N515

Grounding: Ground Filter -F

Application: General - G

Mounting: Rubber feet - Blank Flanges - K

OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
	<b>N515</b> ~125V 10A		<b>N615</b> ~250V 10A
	<b>EUSK</b> ~250V 10A		<b>EUUK</b> ~250V 10A
	<b>CN1A</b> ~250V 10A		<b>BS546</b> ~250V 10A
	<b>EC14</b> ~250V 10A		<b>TS03</b> TERMINAL BLOCK SINGLE PHASE 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](http://www.onfilter.com)  
[info@onfilter.com](mailto:info@onfilter.com)

