

# CleanSweep® Wye Three Phase 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, 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 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.



Wye

Various configurations  
available

### Applications

- Electronic manufacturing
- Semiconductor fabrication
- Disk drive assembly
- Industrial robotics
- Medical
- Military
- Wherever EMI is an issue

### Features

- Easy plug-in installation
- Optimized for power lines
- Effective noise suppression for all types of noise
- CleanSweep® filter family includes single and three phase 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 tools.

### Transient Noise Suppression

Most of the noise on power lines is not continuous waveforms of high frequency but rather "spikes" generated by solenoids, relays, stepper and variable-frequency motors and alike. The peak value of these spikes can be very strong reaching several volts. OnFILTER' CleanSweep® filters are especially effective for this type of signals.

### Differential and Common Mode Attenuation

OnFILTER CleanSweep® filters provide suppression for both types of noise - differential (between power line wires) and common-mode (between power line and ground).

### Flexible Architecture

OnFILTER' CleanSweep® series filters can be configured for different voltages and types of outlets for single and three-phase applications.

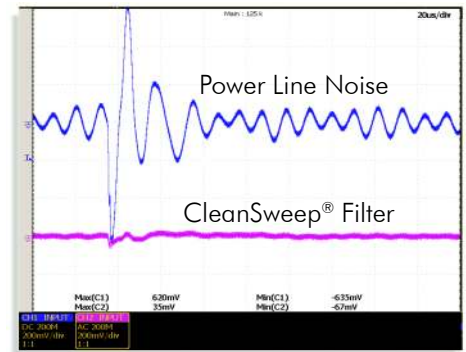
CleanSweep®  
Wye Three Phase  
Power Line AC Filters



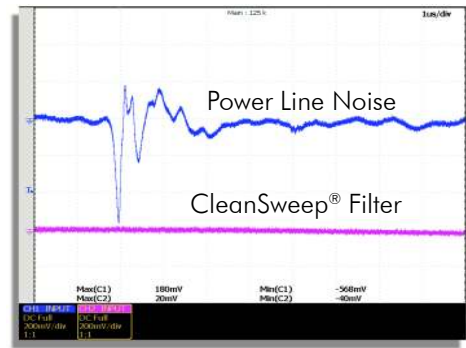
# Specification

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

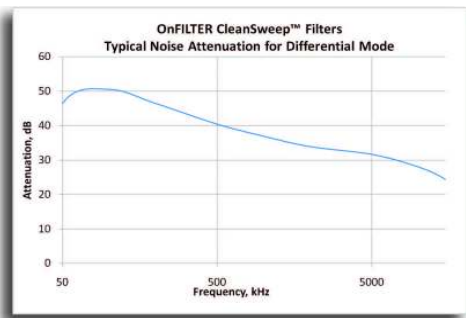
Parameter	Value
Configuration	Wye 3 Phase
Rated Voltage, RMS	110...250V
Rated Current, RMS	20...30A
Transient Signal Attenuation (Typical)	
Differential Mode	24dB
Common Mode	20dB
Continuous Signal Attenuation (Typical)	
0.1/100 Ohms Interface	
Low Frequencies	50dB
High Frequencies	25dB
Power Indication	LED
Dimension (without cable) (W*D*H)	6.15"x10"x2.92" 157*254*75mm



Typical Performance with Differential Mode Noise



Typical Performance with Common Mode Noise



Typical Frequency Response (Differential Mode)

# Ordering Information

Please select the type of filter most suitable for your application. Although there are many selection criteria, choosing the right filter is fairly simple. Most important parameter you need to select is the type of an outlet. The cable supplied with the filter will have the same type of plug.

This example is for an AC three-phase filter for US-type locking 4 wire 30A L2130 receptacle with ground filtering for general application

Part Number: **AFL2130FG**

Type of Filter: Wye AC filter - AF

Outlet Code (see table): L2130

Ground Filtering: Ground Filter - F

Application: General - G

### Wye Three Phase Configurations

OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
	<b>L1820</b> -125/208V 20A Wye		<b>L1830</b> -125/208V 30A Wye
	<b>L2120</b> -125/208V 20A Wye		<b>L2130</b> -125/208V 30A Wye

**TT05**  
TERMINAL BLOCK  
3 PHASE WYE 30A

Contact us for other configurations



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