

Mains Power Filters



CleanSweep filters eliminate glitches at source.

- A range of mains supply filters to suit many applications
- Unique filter design optimised for real world conditions
- Superior low frequency performance.
- Single phase and 3 phase models, plus ground filter.
- Compact and simple to use.



Electronic equipment of all types is prone to 'glitches'. These can be simply irritating, or can be very expensive. A significant cause of problems such as these is noise on the mains supply. The supply network can provide a direct link between electrically noisy equipment such as industrial machinery and your 'delicate' electronic systems.

Filtering can substantially reduce the level of noise inflicted on your systems, thus reducing faults and the consequent downtime and recovery costs.

Conventional filters, designed with characteristics optimised to meet EMC standards are not generally ideal for the real world. CleanSweep filters are fundamentally different, they are specifically designed for real world conditions, and can therefore deliver more protection.

Applications

Data processing rooms.
Server installations
Industrial robotics
Medical
Telecomms facilities
.... Anywhere EMI is an issue!

Versatile

CleanSweep filters cover all industrial, commercial and domestic applications.
Ground filters also available

Convenience

Easy plug-in installation
Effective noise suppression
Single and 3 phase, up to 250v ac and 30A

Simplicity

No active circuits to go wrong...
an entirely passive design.

LAPLACE INSTRUMENTS LTD



CleanSweep Mains Filters

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.

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. They provide suppression of both types of noise... common mode and differential mode, leaving no way through for external noise. Filters are very easy to install - single phase models just plug into the wall socket and then plug your equipment into the filter outlet. Three phase models include connector or terminal block options.

Ordering code

This example is for an AC single phase, 240V, 20A filter for UK style outlet with ground filtering for general application.

Part Number: **AF EUUK F G**

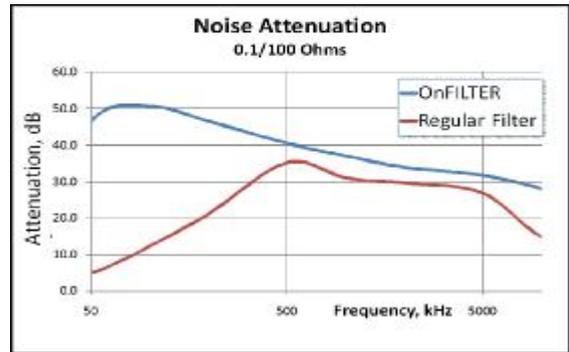
Type of Filter
AC filter—AF
Outlet Code
(see Table)

Application
G = General
M = Medical
Ground Filtering
F = Ground filter
N = No ground filter

Single Phase		Three Phase	
OUTLET	ORDERING CODE	OUTLET	ORDERING CODE
	N515		N615
	N520		N620
	EUUK		L1520
	L515		L1530
	L520		L1820
	L530		L1830
	L1420		L2120
	L1430		L2130
	TS03		TT04
			TT05

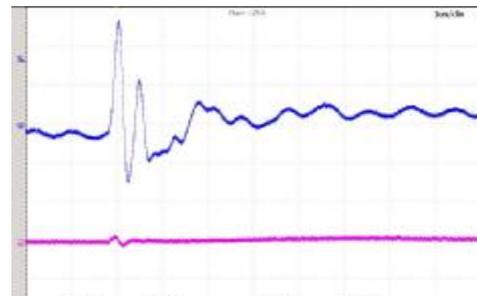
Increased Up-Time

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 etc..... At source, these transients are very sharp, containing significant high frequency energy. The peak value of these spikes can be very strong reaching several volts. However, as these transients travel away from the source, the frequency content is modified with lower frequency components becoming dominant. OnFILTER CleanSweep™ filters are especially effective for this type of signal.



Specifications

	Single Phase	Three Phase
Rated voltage, RMS	110...250v	110—250v
Rated current, RMS	15... 30A	15.... 30A
Transient signal attenuation		
Differential mode	24dB	24dB
Common mode	20dB	20dB
Transient signal attenuation		
Low frequencies	50dB	50dB
High frequencies	25dB	25dB
Power indication	LED	LED
Size (W x D x H)		
Up to 20A	157 x 153 x 75mm	157 x 254 x 75mm
Over 20A	157 x 254 x 75mm	157 x 254 x 75mm

Available from

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